



# Professional Engineering Services for LA 384 (Big Lake Rd to McNeese St) in Calcasieu Parish

## Statement of Qualifications

Contract No. 4400035806

State Project No. H.011242.5

Federal Aid Project No. H011242

August 5, 2026

Submitted by:  
Waggoner Engineering, Inc.





August 5, 2026

Louisiana Department of Transportation and Development  
Attn: DOTD Consultant Advertisements  
Submitted via email: DOTDConsultantAds80@la.gov

**RE: DOTD Contract No. 4400035806 | State Project No. H.011242.5 | Federal Aid Project No. H011242  
LA 384 (Big Lake Rd to McNeese St) in Calcasieu Parish, Louisiana**

Waggoner Engineering, Inc. (Waggoner) is pleased to submit this Statement of Qualifications in response to the Louisiana Department of Transportation and Development's solicitation for engineering and related services associated with LA 384 from Big Lake Road to McNeese Street in Calcasieu Parish. The project will improve safety, mobility, and corridor operations through roadway widening, intersection improvements, traffic signal upgrades, bridge replacement, drainage improvements, Complete Streets features, lighting, and landscaping enhancements. These improvements represent a significant investment in one of the area's most important transportation corridors.

To deliver these services, Waggoner has assembled a multidisciplinary team with extensive experience delivering transportation improvements for LADOTD and local agencies throughout Louisiana. Our team combines roadway, bridge, drainage, traffic engineering, geotechnical engineering, and landscape architecture expertise to provide a coordinated approach from project initiation through final plan development

Waggoner will serve as the prime consultant and provide overall project management, roadway design, bridge coordination, drainage design, public involvement support, and quality management. Specialized support will be provided by Vectura Consulting Services, LLC for traffic engineering and signal design, Ardaman & Associates, Inc. for geotechnical engineering services, Alta Planning + Design for landscape architecture services, and Buchart Horn, Inc. for roadway lighting and electrical design services.

Our approach is founded on proactive coordination, disciplined project management, and technical excellence. We understand the importance of maintaining project momentum while coordinating roadway, drainage, traffic, structural, utility, environmental, and public involvement considerations throughout the design process. Through regular communication, rigorous quality control procedures, and a commitment to meeting LADOTD requirements, our team will provide a thorough and responsive design effort that supports the Department's goals for safety, constructibility, and long-term corridor performance.

Waggoner appreciates the opportunity to be considered for this important project. We look forward to partnering with LADOTD to advance improvements along the LA 384 corridor and delivering a successful project for the citizens of Calcasieu Parish.

Sincerely,

Robert J. Lear, PE, LSI  
Vice President  
Waggoner Engineering, Inc

## Section 1-12

### **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



# 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.

|                                                                                                                                                                                                                                                           |                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1. Contract Name</b> as shown in the advertisement                                                                                                                                                                                                     | LA 384 (Big Lake Rd to McNeese St)                                                                                                          |
| <b>2. Contract Number(s)</b> as shown in advertisement                                                                                                                                                                                                    | Contract No. 4400035806                                                                                                                     |
| <b>3. State Project Number(s)</b> , if shown in the advertisement                                                                                                                                                                                         | State Project No. H.011242.5<br>Federal Aid Project No. H011242                                                                             |
| <b>4. Prime Consultant Name</b> (name must match <u>exactly</u> as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; <u>include</u> screenshot from SOS at the end of Section 20) | <br><b>WAGGONER</b><br><b>Waggoner Engineering, Inc.</b> |
| <b>5. Prime Consultant License Number</b> (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)                                                                   | EF.0002553<br>VF.0000457                                                                                                                    |
| <b>6. Prime Consultant Mailing Address</b>                                                                                                                                                                                                                | 10305 Airline Highway<br>Baton Rouge, LA 70816                                                                                              |
| <b>7. Prime Consultant Physical Address</b> (existing or to be established, if location is used as an evaluation criteria)                                                                                                                                | 10305 Airline Highway<br>Baton Rouge, LA 70816                                                                                              |
| <b>8. Name, Title, Phone Number, and Email Address of Prime Consultant's Contract Point of Contact</b>                                                                                                                                                    | <b>Robert J. Lear, Jr., PE, LSI</b><br>Vice President<br>robert.lear@waggonereng.com   225.298.0800                                         |
| <b>9. Name, Title, Phone Number, and Email Address of the Official with Signing Authority for this Proposal</b>                                                                                                                                           | <b>Robert J. Lear, Jr., PE, LSI</b><br>Vice President<br>robert.lear@waggonereng.com   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.**

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.



Robert J. Lear, Jr., PE, LSI  
Vice President

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

Date: August 5, 2026

| Firm(s)     | Firm Percent |
|-------------|--------------|
| No DBE Goal | N/A          |

## 12. PAST PERFORMANCE EVALUATION DISCIPLINE TABLE:

| Discipline(s)                                                                                                                    | % of Overall Contract | Waggoner (Prime) | Vectura      | Ardaman     | Alta        | Buchart Horn | Each Discipline must total to 100% |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|--------------|-------------|-------------|--------------|------------------------------------|
| Road                                                                                                                             | 45.0%                 | 100.0%           |              |             |             |              | 100.0%                             |
| Bridge                                                                                                                           | 10.0%                 | 100.0%           |              |             |             |              | 100.0%                             |
| Traffic                                                                                                                          | 20.0%                 |                  | 100.0%       |             |             |              | 100.0%                             |
| Geotech                                                                                                                          | 5.0%                  |                  |              | 100.0%      |             |              | 100.0%                             |
| Other - Project Management                                                                                                       | 5.0%                  | 100.0%           |              |             |             |              | 100.0%                             |
| Other - Landscape Arch.                                                                                                          | 5.0%                  |                  |              |             | 100.0%      |              | 100.0%                             |
| Other - Lighting/Electrical                                                                                                      | 5.0%                  |                  |              |             |             | 100.0%       | 100.0%                             |
| Other - Public Involvement                                                                                                       | 5.0%                  | 100.0%           |              |             |             |              | 100.0%                             |
| Identify the percentage of work for the <b>overall contract</b> to be performed by the prime consultant and each sub-consultant. |                       |                  |              |             |             |              |                                    |
| <b>Percent of Contract</b>                                                                                                       | <b>100.0%</b>         | <b>65.0%</b>     | <b>20.0%</b> | <b>5.0%</b> | <b>5.0%</b> | <b>5.0%</b>  | <b>100.0%</b>                      |

## Section 13-15

### **I-10: Highland Road to LA 73 Design Build**

East Baton Rouge & Ascension Parishes  
H.009250

Waggoner Engineering, Inc.  
Lead Road Design Firm



### 13. TEAM SIZE:

| Firm Name                                                                         | DOTD Job Classification | Number of Personnel Committed to this Contract | Total Number of Personnel Available in this DOTD Job Classification (if needed) |
|-----------------------------------------------------------------------------------|-------------------------|------------------------------------------------|---------------------------------------------------------------------------------|
|  | Principal               | 1                                              | 2                                                                               |
|                                                                                   | Professional            | 0                                              | 2                                                                               |
|                                                                                   | Supervisor - Eng        | 4                                              | 8                                                                               |
|                                                                                   | Engineer                | 7                                              | 11                                                                              |
|                                                                                   | Engineer Intern         | 5                                              | 8                                                                               |
|                                                                                   | CADD Technician         | 3                                              | 3                                                                               |
|                                                                                   | Senior Technician       | 4                                              | 4                                                                               |
|                                                                                   | Technician              | 0                                              | 2                                                                               |
|                                                                                   | Clerical                | 1                                              | 2                                                                               |

|                                                                                   |                       |   |   |
|-----------------------------------------------------------------------------------|-----------------------|---|---|
|  | Supervisor - Engineer | 2 | 2 |
|                                                                                   | Engineer              | 3 | 6 |
|                                                                                   | Engineer Intern       | 2 | 2 |
|                                                                                   | Senior Technician     | 1 | 3 |
|                                                                                   | Supervisor - Other    | 1 | 1 |
|                                                                                   | Technician            | 1 | 1 |
|                                                                                   | Clerical              | 1 | 1 |

|                                                                                     |                    |    |    |
|-------------------------------------------------------------------------------------|--------------------|----|----|
|  | Administrative     | 1  | 1  |
|                                                                                     | CADD Technician    | 2  | 2  |
|                                                                                     | Clerical           | 1  | 2  |
|                                                                                     | Engineer           | 1  | 6  |
|                                                                                     | Engineer Intern    | 3  | 6  |
|                                                                                     | Principal          | 2  | 3  |
|                                                                                     | Senior Technician  | 8  | 9  |
|                                                                                     | Supervisor - Eng   | 3  | 3  |
|                                                                                     | Supervisor - Other | 3  | 4  |
|                                                                                     | Technician         | 11 | 15 |

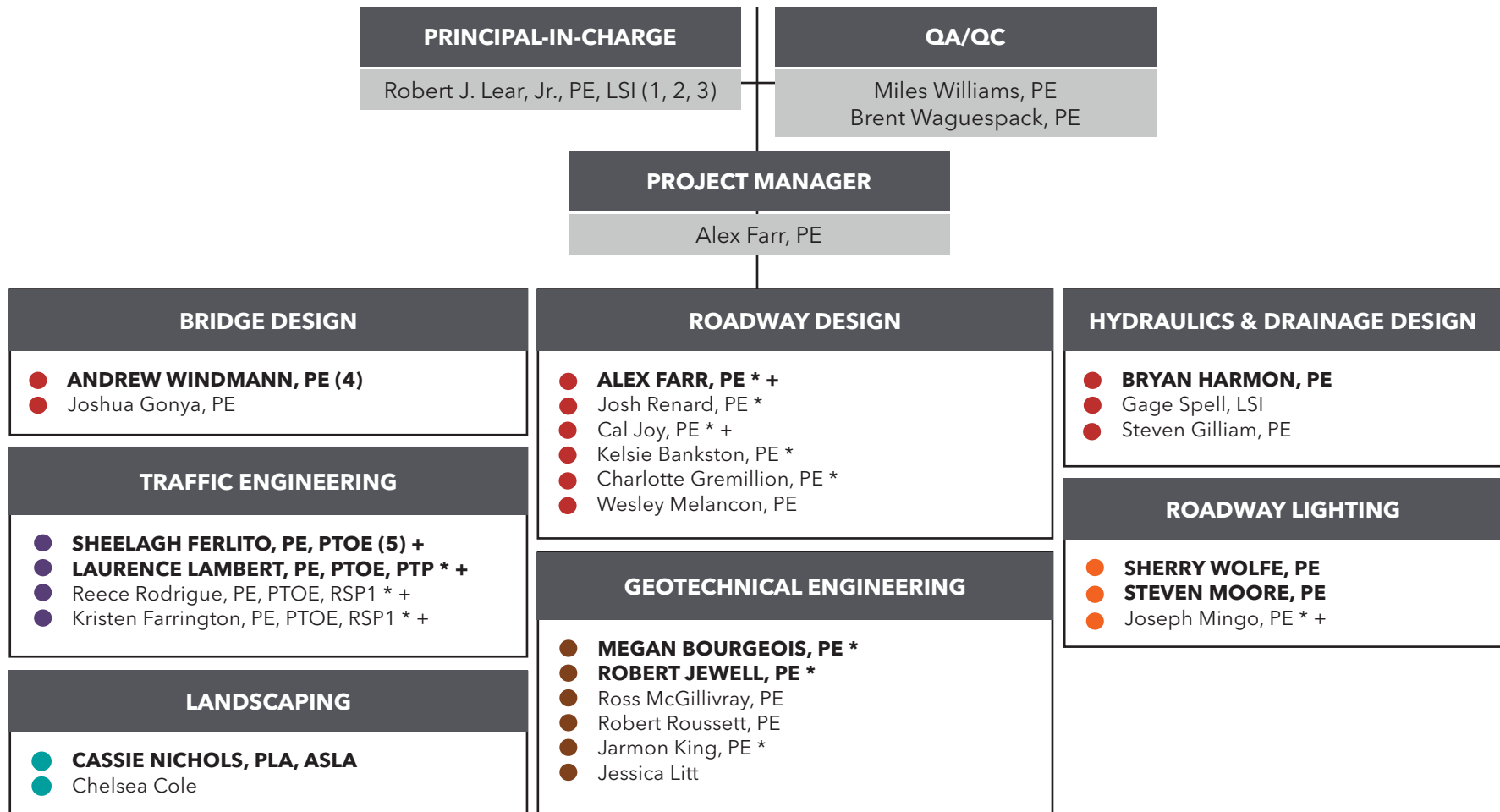
### 13. TEAM SIZE:

| Firm Name                                                                         | DOTD Job Classification | Number of Personnel Committed to this Contract* | Total Number of Personnel Available in this DOTD Job Classification (if needed) |
|-----------------------------------------------------------------------------------|-------------------------|-------------------------------------------------|---------------------------------------------------------------------------------|
|  | Landscape Architect     | 2                                               | 1                                                                               |

|                                                                                   |                       |   |    |
|-----------------------------------------------------------------------------------|-----------------------|---|----|
|  | Principal             | 0 | 2  |
|                                                                                   | Supervisor - Engineer | 2 | 5  |
|                                                                                   | Engineer - Other      | 1 | 10 |
|                                                                                   | Designer              | 1 | 5  |

## 14. ORGANIZATIONAL CHART:

| KEY                                      |                                                                    |
|------------------------------------------|--------------------------------------------------------------------|
| <b>Waggoner</b>                          | (#) Meets MPR Criteria                                             |
| <b>Vectura</b>                           | * Meets Work Zone Training Requirements                            |
| <b>Ardaman &amp; Associates</b>          |                                                                    |
| <b>alta</b>                              | + Meets Traffic Engineering Process & Report Training Requirements |
| <b>Buchart Horn</b>                      |                                                                    |
| <b>DISCIPLINE LEAD (CAPS &amp; BOLD)</b> |                                                                    |



**15. MINIMUM PERSONNEL REQUIREMENTS:**

| MPR #<br>Do not insert<br>wording<br>from ad | Personnel being used to meet the MPR<br>(Individual(s) may not satisfy more than one MPR<br>unless specifically allowed by Attachment B of<br>the advertisement) | Firm employed by | Type of license and<br>discipline meeting MPR/<br>certification & number<br>(Ex: PE # - Civil) | State of<br>license | License/<br>certification<br>expiration date |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------|
| 1                                            | Robert Lear, Jr., PE, LSI                                                                                                                                        | Waggoner         | PE#29394 - Civil                                                                               | LA                  | 03.31.2027                                   |
| 2                                            | Robert Lear, Jr., PE, LSI                                                                                                                                        | Waggoner         | PE#29394 - Civil                                                                               | LA                  | 03.31.2027                                   |
| 3                                            | Robert Lear, Jr., PE, LSI                                                                                                                                        | Waggoner         | PE#29394 - Civil                                                                               | LA                  | 03.31.2027                                   |
| 4                                            | Andrew Windmann, PE                                                                                                                                              | Waggoner         | PE#39042 - Civil                                                                               | LA                  | 09.30.2026                                   |
| 5                                            | Sheelagh Brin Ferlito, PE, PTOE                                                                                                                                  | Vectura          | PE#25383 - Civil<br>PTOE#932                                                                   | LA                  | 09.30.2027<br>09.09.2027                     |

\* 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

### **LA1 Improvements: Fourchon - Golden Meadow**

Lafourche Parish

Waggoner Engineering, Inc.  
Lead Design Firm

Past Performance Disciplines performed by Waggoner:  
Road, Bridge, Traffic, CE&I/OV, Survey, Environmental, Right-of-Way, ITS,  
Other (Project Management), Other (Roadway Lighting), Other (SUE)



# **Project Management & Support**

Section 16

## 16. STAFF EXPERIENCE:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |                               |                                                      |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------|------------------------------------------------------|----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Firm Employed By:  <b>WAGGONER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                    |                               |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Robert J. Lear, Jr., PE, LSI</b>                |                               | 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                    | Principal-in-Charge   <b>Meets MPR 1, 2, &amp; 3</b> |    |
| Robert will oversee the project, ensuring that all services are performed in compliance with the contract and specific task orders. He will provide high-level direction and decision-making, ensuring the team adheres to the LADOTD relevant standards. Robert will also be responsible for final approval of all deliverables and coordination with the LADOTD's Chief Engineer to ensure quality and conformity with LADOTD's quality standards. Robert has served as a design engineer and project manager on a wide range of traffic engineering and transportation-related projects. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |                               |                                                      |    |
| Experience Dates (mm/yy-mm/yy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |                               |                                                      |    |
| 01/13 - Ongoing<br><div>SECTION 17 PROJECT</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>I-49 South: US 90 and Ambassador Caffery Interchange, Lafayette Parish, (H.002868)</b><br><b>Roadway Design Engineer.</b> Robert is a roadway design engineer for a new interchange on future I-49 at Ambassador Caffery Parkway in Lafayette, LA. Robert is responsible for the horizontal and vertical geometric design and road plan production of a four-tiered interchange, eight lane mainline, two-lane one way frontage roads, and u-turns.                                                                                                                                                                                                                                                                                              |                                                    |                               |                                                      |    |
| 05/20 - Ongoing<br><div>SECTION 17 PROJECT</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)</b><br><b>Roadway Design Engineer.</b> Robert is a roadway design engineer for the widening of I-10, interchange improvements, and surface street improvements through Baton Rouge. His responsibilities include urban roadway, freeway, and interchange geometrics, profile design, typical sections, design reports, establishing required right of way, and plan preparation using Microstation and Inroads. He is part of the roadway task force which collaborates with the design team, LADOTD, and the CMAR contractor.                                                                                                                              |                                                    |                               |                                                      |    |
| 09/22 - Ongoing<br><div>SECTION 17 PROJECT</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>LA 1088: Soutl and Trinity Roundabouts, St. Tammany Parish, LA (H.010116)</b><br><b>Project Manager.</b> 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. |                                                    |                               |                                                      |    |
| 10/12 - Ongoing<br><div>SECTION 17 PROJECT</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Hooper Rd Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA (H.002316)</b><br><b>Project Manager.</b> Robert was the project manager during the Environmental Assessment Phase of this 2.2 mile urban roadway capacity project. Hooper Road is being upgraded to a 4-lane blvd with complete streets accommodations. He also managed the topo survey and prepared Right-of-Way maps.                                                                                                                                                                                                                                                                                                                                                |                                                    |                               |                                                      |    |
| 10/20 - Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>I-10 and I-12 College Drive Flyover Ramp Design-Build (CE&amp;I/OV), East Baton Rouge Parish, LA (H.013897)</b><br><b>Lead Road Design Engineer.</b> Robert is serving as the lead design review engineer for the following design units: definitive design, clearing and grubbing, roadway, drainage, maintenance of traffic, pavement marking and signing, SWPPP, and TMP Level 4. His responsibilities include technical reviews of calculations and drawings for conformance to the minimum guidelines, project technical performance specifications, and contract documents.                                                                                                                                                                |                                                    |                               |                                                      |    |

## Robert Lear resume continued

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 03/13 - 07/22   | <p><b>I-10: East Jct. I-49 to LA 328, Lafayette and St. Martin Parishes, LA (H.003003)</b><br/> <b>I-10: LA 328 to LA 347, St. Martin Parish (H.003014)</b><br/> <b>I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)</b><br/> <b>Project Manager and Lead Road Design Engineer Of Record.</b> 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.</p>                                                                                                                                                                    |
| 03/03 - Ongoing | <p><b>LA1 Improvements: Fourchon-Golden Meadow, Lafourche Parish, LA (700-29-0112   H.008145   H.004526)</b><br/> <b>Project Manager, Road Design Engineer, Permitting Manager.</b> Robert has served multiple roles for this multi-phase mega project to add 17 miles of tolled bridge on new alignment through coastal LA. 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&amp;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, SUE and utility coordination for all pipelines in the active oil and gas field.</p>                                                                                                                                                                                                 |
| 04/02 - 04/12   | <p><b>Jones Creek Rd Improvements Tiger Bend Road - Coursey Blvd., East Baton Rouge Parish, LA (H.007137)</b><br/> <b>Project Manager and Lead Road Design Engineer.</b> Robert was the project manager and lead road design engineer for the widening of a two-lane road to a five-lane urban section. He designed roadway geometrics, intersections, sidewalks, residential and commercial drives, pavement markings, and cross sections. He also managed the topographic survey and worked under PLS supervision for the preparation of Right-of-Way maps.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 05/21 - 03/23   | <p><b>LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)</b><br/> <b>Project Manager and Design Engineer.</b> Robert was the project manager and design engineer of record for drainage improvements along LA 352 in Henderson, LA. The project includes removing several undersized side drains and side road cross drains with a 10x6 RCB to alleviate regional flooding problem near the I-10 Henderson exit. The design also incorporates a drainage bypass system to balance flows near the interchange. Robert is responsible for coordinating the project with the District 03 administrator, DTOE, area engineer, and utility coordinator, along with the design of the drainage systems, maintenance of traffic plans, and construction plan development.</p>                                                                                                                                                                                                                                                                                                                                                                                                                |
| 08/18 - 10/22   | <p><b>I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)</b><br/> <b>Lead Road Design Engineer.</b> The project includes adding ramps to the existing I-20/I-220 Interchange and providing full access to the Barksdale Air Force Base via a new four-lane rural arterial roadway. Robert is the roadway design engineer for this LADOTD Design-Build Project. He is responsible for preparing the geometric design criteria reports, design exceptions, horizontal and vertical geometrics for the interstate, diagonal and loop ramps, C-D road, and rural arterial; superelevation transitions, typical sections, plan profile sheets, geometric control, geometric layout, geometric details, cross sections, drainage design including cross drains, storm drains, side drains, roadside ditches, existing and design drainage maps, clearing and grubbing plans, and construction support. Robert also was responsible for QA/QC reviews and/or independent reviews of the Stormwater Pollution Prevention Plan, Interchange Modification Report re-evaluation, traffic control plans, signing and striping plans, and transportation management plan.</p> |
| 01/14 - 07/16   | <p><b>LA342: Roundabout at LA 724, Lafayette Parish, LA (H.002163)</b><br/> <b>Project Manager and Lead Road Design Engineer.</b> Robert served as the project manager and road design engineer for a four-legged single lane roundabout in Lafayette Parish. He was responsible for the horizontal and vertical geometric design, typical sections, suggested sequencing, permanent pavement markings, permanent signing, quantities and opinion of probable costs for this project. He also supervised all survey and SUE efforts. Utility locates included QL-D and QL-C locates. Robert coordinated with District 03 for utility relocation requirements and needs.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 16. STAFF EXPERIENCE:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                               |                                                      |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------|------------------------------------------------------|----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Firm Employed By:</b>  <b>WAGGONER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                               |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Miles Williams, PE</b> |                               | 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 / 03.31.2028    |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Year Registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1988                      | Discipline                    | Civil Engineering                                    |    |
| Contract Role(s) / Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | QA/QC                     |                               |                                                      |    |
| <p>Miles will serve as the QA/QC Manager for this contract. He will be responsible for overseeing the quality review process for all preliminary design deliverables, ensuring compliance with LADOTD standards, project scope requirements, and applicable design criteria. With over 25 years of LADOTD project design and management experience, Miles will coordinate multidisciplinary reviews throughout the preliminary design effort to verify technical accuracy, constructability, consistency between disciplines, and adherence to the project schedule and budget. He will also work closely with the project team and LADOTD to address review comments and maintain overall quality throughout the Preliminary Plans development process.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                               |                                                      |    |
| 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><b>SECTION 17 PROJECT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Hooper Rd Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA (H.002316)</b><br><b>Principal-in-Charge.</b> Miles is the principal-in-charge for the NEPA EA and urban road design of this 2.2 mile capacity project. Hooper Rd is being upgraded to a 4-lane blvd with complete streets accommodations.                                                                                                                                                                                                                                                                                                                                                                      |                           |                               |                                                      |    |
| 01/13 - Ongoing<br><b>SECTION 17 PROJECT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>I-49 South: US 90 and Ambassador Caffery Interchange, Lafayette Parish, LA (H.002868)</b><br>Miles is the road design engineer of record for a new interchange on future I-49 at Ambassador Caffery Parkway in Lafayette, LA. He is responsible for the horizontal and vertical geometric design, subsurface and open ditch drainage design, and road plan production of a four-tiered interchange, eight lane mainline, two-lane one way frontage roads and u-turns. He also is responsible for coordinating the frontage road extensions and interchange alternative design for future/interim condition implementation.                                                               |                           |                               |                                                      |    |
| 05/20 - Ongoing<br><b>SECTION 17 PROJECT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), East Baton Rouge Parish, LA (H.004100)</b><br>Miles is the road design lead professional for the replacement of I-10, interchange improvements, and surface street improvements through Metro Baton Rouge. His responsibilities include road and drainage design, complex interchange geometric design, maintenance of traffic/sequencing plans, coordinating with the CMAR contractor, design and constructability reviews, value engineering assessments, cost estimating, project phasing for GMP limit determination, proposed right of way and control-of-access limit determination, utility coordination, and public involvement. |                           |                               |                                                      |    |
| 08/21 - 05/23<br><b>SECTION 17 PROJECT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>LA 73: US 61 (Airline Highway) - LA 426 (Essen Lane), East Baton Rouge Parish, LA (H.010652)</b><br>Miles was the road design engineer-of-record and was responsible for all roadway design and plan preparation tasks. Waggoner was contracted by LADOTD to engineer the reconstruction of LA 73, covering full pavement replacement, curbs, gutters, and sidewalks from Airline Highway to the I-12 on-ramp, and repairs from the I-12 on-ramp to Essen Lane. This project included a 2.3-mile roadway with quantity summaries, cost estimates, and plans to minimize traffic impacts.                                                                                                 |                           |                               |                                                      |    |

## Miles Williams resume continued

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| 03/03 - Ongoing | <b>LA1 Improvements: Fourchon-Golden Meadow, Lafourche Parish, LA (700-29-0112   H.008145   H.004526)</b><br><b>Project Manager, Lead Road Design Engineer, Principal-In-Charge.</b> 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 LA. 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).                                                                                                                               |
| 03/13 - 07/22   | <b>I-10: East Jct. I-49 to LA 328, Lafayette and St. Martin Parishes, LA (H.003003)</b><br><b>I-10: LA 328 to LA 347, St. Martin Parish, LA (H.003014)</b><br><b>I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish, LA (H.003014)</b><br>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.                                                                     |
| 04/02 - 04/12   | <b>Jones Creek Road Improvements Tiger Bend Road - Coursey Blvd., East Baton Rouge Parish, LA (H.007137)</b><br>Miles was the principal-in-charge for the Jones Creek Road Improvements project for LADOTD. The project involves widening an existing two-lane roadway to a five-lane curb and gutter roadway with subsurface drainage. He was responsible for contracts, geometrics, road design, sequence of construction, signing and coordination of traffic signalization. He was also the project manager during the topographic and boundary survey and Right-of-Way map preparation phases.                                                                                                                                                                                                                                      |
| 12/14 - 04/19   | <b>S. Acadian Thruway (Perkins Rd - LA 73), East Baton Rouge Parish, LA (H.011261)</b><br>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.                                                                                                                                                                                                                                                                                                                                                                                          |
| 04/18 - Ongoing | <b>Belle Chasse Bridge and Tunnel Replacement Public-Private Partnership Project, Plaquemines, and Jefferson Parish, LA (H.004791)</b><br>Waggoner is a design subconsultant providing drainage design for this alternative delivery project. Miles is serving as project principal and hydraulic design engineer. His work entails liaison with the prime consultant, builder, concessionaire and LADOTD. He is also assisting in the design of the drainage system for the roadways throughout the project including storm sewer design, drainage plans preparation, and generation of quantities.                                                                                                                                                                                                                                     |
| 10/20 - Ongoing | <b>I-10 &amp; I-12 College Drive Flyover Ramp Design-Build (CE&amp;I/OV), E. Baton Rouge Parish, LA (H.013897)</b><br><b>Road Design and Drainage Design Reviewer.</b> Miles is serving as a road design and drainage design reviewer, providing support services to LADOTD through the Owner Verification Team (OVT) 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. Mr. Williams' responsibilities include participation in the progress reviews of each Design Unit and Ready for Construction (RFC) Plan submittals. These reviews include roadway plans, drainage plans, geometrics and construction sequencing with consideration being given to LADOTD Design Guidelines, Hydraulics Manual requirements, Standard Details and Specifications. |
| 08/18 - 02/20   | <b>I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)</b><br><b>Project Principal.</b> Miles has served as the project principal on this design-build team lead by James Construction Group and Huval and Associates. Miles supervised all of Waggoner's efforts on this project which included all urban interstate highway design and plan preparation, drainage design and pavement marking plans. The interchange design includes complex geometrics, sequencing of construction while maintaining traffic on I-20 and coordination with a major railroad and the US Air Force technical team at Barksdale Air Force Base.                                                                                                                                                                           |

## 16. STAFF EXPERIENCE:

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Firm Employed By:</b>  <b>WAGGONER</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Name                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Brent Waguespack, PE</b>       | Years of Relevant Experience with this Employer      | <1 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Title                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Senior Director of Transportation | Years of Relevant Experience with Other(s) Employers | 30 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Degree(s)/Years/Specialization                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | BS / 1996 / Civil Engineering     |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Active Registration Number/State/Expiration Date                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PE#29643 / LA / 09.30.2027        |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Year Registered                                                                                                            | 2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Discipline                        | Civil Engineering                                    |    |
| Contract Role(s)/Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                            | QA/QC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |                                                      |    |
| <p>Brent brings more than 25 years of transportation engineering, program management, and leadership experience earned through a distinguished career with the LADOTD. He has led the planning, development, and delivery of complex transportation infrastructure projects statewide, including highways, arterial roadways, and interchange improvements. His expertise includes project development, roadway design, consultant management, quality assurance, and stakeholder coordination, providing clients with valuable insight into LADOTD processes, transportation funding programs, and successful project delivery throughout Louisiana.</p> |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |                                                      |    |
| Experience Dates (mm/yy-mm/yy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                            | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |                                                      |    |
| 03/13 - 07/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                            | <b>H.003003, LADOTD, I-10: East Jct. I-49 to LA 328, Lafayette and St. Martin Parishes, LA</b><br><b>H.010601, LADOTD, I-10: LA 328 to LA 347, St. Martin Parish, LA</b><br><b>H.003014, LADOTD, I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish, LA</b><br><b>DOTD Road Design Task Manager.</b> Brent served as the DOTD Road Design Task Manager for approximately 18 miles of capacity and pavement preservation improvements for I-10. Brent was responsible for reviewing all road design elements of the preliminary and final plan submittals for completeness, accuracy and compliance with AASHTO, FHWA and DOTD guidelines. This included roadway geometry, typical sections, pay items, suggested sequence of construction, design reports, design exceptions and waivers. In addition, Brent managed the Road Design IDIQ that these projects were designed under. Responsibilities included assisting in the development of the project scope, negotiating man-hours, collaborating on the project schedule and approving invoices. |                                   |                                                      |    |
| 01/22 - 05/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                            | <b>LA 302: Bayou Barataria MB Repl Phase 2, Jefferson Parish, LA (H.002264)</b><br><b>DOTD Road Design Task Manager.</b> This project included the roadway construction for movable bridge constructed under H.015028. Brent served as the DOTD Road Design Task Manager and was responsible for reviewing road design elements of the preliminary and final plan submittals for completeness, accuracy and compliance with AASHTO, FHWA and DOTD guidelines. This included roadway geometry, typical sections, pay items, suggested sequence of construction, design reports, design exceptions and waivers.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |                                                      |    |
| 02/15 - 02/19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                            | <b>LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish, LA (H.010184)</b><br><b>DOTD Road Design Task Manager.</b> This project removed the existing at-grade crossing between LA 59 and the Tammany Trace by constructing a 150-foot pedestrian and bike tunnel under LA 59 and included horizontal curve realignment on LA 59. Brent served as the DOTD Road Design Task Manager and was responsible for reviewing all road design elements of the preliminary and final plan submittals for completeness, accuracy and compliance with AASHTO, FHWA and DOTD guidelines. This included roadway geometry, typical sections, pay items, suggested sequence of construction, design reports, design exceptions and waivers.                                                                                                                                                                                                                                                                                                                             |                                   |                                                      |    |
| 03/14 - 02/18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                            | <b>LA 59: Roundabout at Sharp Road, St. Tammany Parish, LA (H.011075)</b><br><b>DOTD Road Design Task Manager.</b> This project replaced the signalized intersection with a single lane roundabout. Brent served as the DOTD Road Design Task Manager and was responsible for reviewing all road design elements of the preliminary and final plan submittals for completeness, accuracy and compliance with AASHTO, FHWA and DOTD guidelines. This included roadway geometry, typical sections, pay items, suggested sequence of construction, design reports, design exceptions and waivers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                   |                                                      |    |

## Brent Waguespack resume continued

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| 06/15 - 09/17 | <p><b>US 190 Superstreet, St. Tammany Parish, LA (H.005733)</b><br/><b>DOTD Road Design Task Manager.</b> This project redesigned multiple intersections along three (3) miles of existing urban roadway through the conversion of traditional full access median openings to signalized R-Cut type intersections. Brent served as the DOTD Road Design Task Manager and was responsible for reviewing all road design elements of the preliminary and final plan submittals for completeness, accuracy and compliance with AASHTO, FHWA and DOTD guidelines. This included roadway geometry, typical sections, pay items, suggested sequence of construction, design reports, design exceptions and waivers.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 05/18 - 07/26 | <p><b>LADOTD Road Design Section, Urban Systems Program</b><br/><b>Assistant Road Design Engineer Manager over the Urban System Program Managers (05/18 - 08/24)</b> Brent served as the supervisor for the Urban System Project Managers for the Surface Transportation Program&gt;200k and the Surface Transportation Program&lt;200k.</p> <p><b>Project and Program Manager Urban System (08/24 - 6/26)</b> Brent served as the project manager for over 140 LPA projects in the STP&gt;200k and STP&lt;200k program initiated through Louisiana's eleven Metropolitan Planning Organizations. The types of projects in the program include reconstruction of existing routes, preservation of existing routes, adding capacity to existing routes, signalized intersection improvements, roundabouts, bridge replacements, and the construction of sidewalks and bike paths. Responsibilities included overseeing project delivery, coordinating milestone reviews, managing LPA communication, and tracking environmental, Right-of-Way, utility, and survey-related activities throughout project development. During plan development, Brent was tasked with evaluating compliance with current AASHTO criteria, LADOTD policies, and construction specifications while assessing overall constructability and biddability. Responsibility also included review of design reports, design exceptions and waivers, and bid package preparation. Each project also required creation of Entity State Agreements and several projects involved managing of consultant contracts by negotiation of man-hours and fees, establishing contract time requirements and approving invoices for payment.</p> |

## 16. STAFF EXPERIENCE:

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Firm Employed By:</b>  <b>WAGGONER</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 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                           |                                                      |    |
| <p>Alex will serve as the Project Manager overseeing the detailed engineering and Preliminary Plans development associated with the proposed roadway improvements. He will coordinate project development activities to ensure roadway geometry, drainage structures, utility coordination, maintenance of traffic, and existing corridor constraints are properly incorporated into the preliminary design process. Alex will guide the project team throughout plan development while ensuring compliance with LADOTD Roadway Design Procedures and Louisiana Standard Specifications to support a coordinated and constructible Preliminary Plans package.</p> |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                                                      |    |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                            | <b>I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)</b><br><b>Project Engineer.</b> Alex was responsible for developing the proposed vertical profiles along the entire mainline corridor as well as their respective service roads, surface streets, entrance, and exit ramps. This included determining existing vertical clearance along the corridor and adjusting the profile to meet the minimum vertical clearance per LADOTD minimum design guidelines. This was performed along this corridor by using as-builts pertaining to their respective locations. Alex was also responsible for calculating the roadway and bridge construction costs for the Project Opinion of Probable Costs. |                                           |                                                      |    |
| 09/22 - Ongoing<br>SECTION 17 PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                            | <b>LA 1088: Soult and Trinity Roundabouts, St. Tammany Parish, LA (H.010116)</b><br><b>Project Engineer.</b> 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.                                                  |                                           |                                                      |    |
| 01/17 - Ongoing<br>SECTION 17 PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                            | <b>I-49 South: US 90 &amp; Ambassador Caffery Interchange, Lafayette Parish, LA (H.002868)</b><br><b>Project Engineer.</b> Alex was responsible for the storm sewer drainage design along the northbound and southbound service roads for this project. Alex was also responsible for preparing a traffic signal plan including a traffic signal warrant analysis as well as an operational analysis concerning the two new proposed signals at the NB and SB service roads and Ambassador Caffery. Alex also developed the Transportation Management Plan (TMP) for this project to minimize impacts to the traveling public throughout construction.                                                                                 |                                           |                                                      |    |
| 08/21 - 05/23<br>SECTION 17 PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                            | <b>LA 73 (US 61 - Airline Highway) to LA 426 (Essen Lane), East Baton Rouge Parish, LA (H.010652)</b><br><b>Project Engineer.</b> Alex supported the development of roadway design and plan preparation for this 2.3-mile rehabilitation project along LA 73 (Airline Highway). His responsibilities included developing construction sequencing and maintenance of traffic plans, preparing construction quantity calculations and cost estimates, and assisting with final plan development. Alex coordinated with the design team to develop a phased construction approach that maintained traffic while delivering pavement replacement, curb and gutter, sidewalk improvements, and associated roadway enhancements.             |                                           |                                                      |    |

## Alex Farr resume continued

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| 01/22 - Ongoing<br><b>SECTION 17 PROJECT</b> | <b>LA 480: Hooper Rd (Blackwater-Joor) East Baton Rouge Parish, LA (H.002316)</b><br><b>Project Engineer.</b> This five-lane widening project is for a two-mile rural road providing a new two-lane roundabout and facilities for pedestrians, bicyclists, and vehicles. Alex is responsible for checking the roundabout graphical grades, construction sequencing, signing and striping, the quantities, and cost estimate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 03/13 - 07/22                                | <b>I-10: East Jct. I-49 to LA 328, Lafayette and St. Martin Parishes, LA (H.003003)</b><br><b>I-10: LA 328 to LA 347, St. Martin Parish, LA (H.003014)</b><br><b>I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish, LA (H.003014)</b><br><b>Project Engineer.</b> Alex prepared road design plans for the interstate, ramps, and overpasses for all 3 segments of I-10. The TMPs pertained to alternate route analysis, public information, stakeholder involvement, traffic and safety data, temporary traffic control, and work zone impact management strategies. Alex was also responsible for the suggested sequence of construction, temporary signing, and quantity computations for each construction funding source and control section. Alex prepared road design plans for the interstate, ramps, and overpasses for all three segments of I-10.                     |
| 10/20 - Ongoing                              | <b>Rural Bridge Replacement Initiative Phase II (South), LA (440001338)</b><br><b>Project Manager and Road Design Lead.</b> Alex serves as Project Manager for this statewide program consisting of 16 bridge replacement projects at 29 sites throughout south Louisiana. He is responsible for managing project delivery, client coordination, schedules, budgets, and quality control while overseeing the development of Project Design Reports (PDRs), roadway geometry, bridge approaches, and maintenance of traffic plans. Alex coordinates with subconsultants and LADOTD staff to ensure timely delivery of project milestones, progress reporting, and contract requirements.                                                                                                                                                                                                     |
| 10/20 - Ongoing                              | <b>I-10 &amp; I-12 College Drive Flyover Ramp Design-Build (CE&amp;I/OV), E. Baton Rouge Parish, LA (H.013897)</b><br><b>Road and Construction Sequencing Design Reviewer.</b> Alex is serving as a road and construction sequencing design reviewer, providing support services to LADOTD for this Project. This project consists of modifying the I-10 West/College Drive exit into separate I-12 West and I-10 West exits. Mr. Farr's responsibilities include reviews of roadway plans and construction sequencing with consideration being given to LADOTD Design Guidelines and Standard Details and Specifications.                                                                                                                                                                                                                                                                   |
| 10/16 - 12/20                                | <b>I-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA</b><br><b>Project Engineer.</b> Alex was responsible for performing the Transportation Management Plan (TMP) as well as the Safety Analysis for this project to determine what safety concerns correlated to the construction of this segment. Alex was also responsible for the suggested sequence of construction, guardrail design, and the quantity estimate for the above mentioned project.                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2019 - Ongoing                               | <b>Jones Creek Road Improvements Phases 1A &amp; 1B, East Baton Rouge Parish, LA</b><br><b>Project Manager.</b> 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 2-mile 4-lane boulevard on new alignment, green infrastructure drainage features, a roundabout at Jefferson Highway, a new residential subdivision access point for an existing subdivision, a new bridge over Claycut Bayou, topographic and Right-of-Way mapping, and stormwater detention ponds to control outfall channel levels. Alex designed the roadway geometrics, typical sections, geometric details, cross sections, MOT, quantities, and construction cost estimates. |
| 2018 - 05/24                                 | <b>Scotlandville Parkway to Downtown Baton Rouge Bike Trail (H.013267)</b><br><b>Project Engineer.</b> Alex served as the project engineer and designed a bike trail from Memorial Stadium to BREC Scotlandville Parkway Park. The design included separated mixed use trails, road to trail conversions, and shared lanes. Alex also prepared the striping and signing plans for this route, quantities and estimated construction cost.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 12/14 - 04/19                                | <b>Acadian Thruway Safety Improvements (H.011261)</b><br><b>Project Engineer.</b> Alex computed project quantities, sequence of construction, and the striping plan for this mill and overlay project. Alex also was responsible for utility location along this segment. He designed geometric alternates for the intersection at Claycut Road.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



# Bridge Design Team

Section 16

## 16. STAFF EXPERIENCE:

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------|------------------------------------------------------|----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Firm Employed By:</b>  <b>WAGGONER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                      |                               |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                      | Andrew Windmann, PE           | Years of Relevant Experience with this Employer      | 3  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 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 / 09.30.2026    |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Year Registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2014                                                 | Discipline                    | Civil Engineering                                    |    |
| Contract Role(s) / Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Discipline Lead - Bridge Design   <b>Meets MPR 4</b> |                               |                                                      |    |
| <p>Andrew is a civil engineer with extensive experience in the transportation industry. He successfully manages and delivers in-house and consulted structural transportation projects from both a technical and project management role. Andrew worked with the LADOTD for 13 years. From 2021-2023, he was the Assistant Bridge Design Administrator for an annual \$240 million bridge rehabilitation and replacement program for Louisiana highway structures. Andrew was the technical bridge representative for several high-profile transportation engineering projects in Louisiana.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                      |                               |                                                      |    |
| Experience Dates (mm/yy-mm/yy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                      |                               |                                                      |    |
| 01/13 - Ongoing<br><b>SECTION 17 PROJECT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>I-49 South: US 190 and Ambassador Caffery Interchange, Lafayette Parish, LA (H.002868)</b><br><b>Bridge Design Lead.</b> This project entails the construction of a new full access controlled grade separated interchange at the intersection of Ambassador Caffery Parkway (LA 3073) and US 90 (future 1-49 South). The overpass consisted of precast prestressed concrete girders (LG girders) supported on reinforced concrete column bents founded on pile-supported footings. Waggoner performed roadway and bridge design, plan development, cost estimating, and specification support on this project. Andre provided construction related engineering services including responding to multiple RFI and Contractor Proposals as well as shop drawings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                      |                               |                                                      |    |
| 03/13 - 12/19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>I-10: LA 347 to Atchafalaya Floodway. Widening Project, St. Martin, LA (H.003014)</b><br><b>Lead Bridge Design Engineer.</b> Andrew served as the lead bridge design engineer on this project that included the rehabilitation and widening of six bridge structures (three unique sites) along the I-10 mainline. The scope of this project included the initial assessment of each bridge to provide recommendation on widening versus replacement, while factoring in current condition, load carrying capacity, and feasibility of construction. During Stage 3 of the project, Andrew led the structural team, ensuring the design of every component and detailing of over 120 plan sheets were performed with great quality following LADOTD's QC/QA plan. Structural components included concrete decks, skewed PPC girder superstructures (AASHTO-girders), pile supported bent caps, column bents supported on pile footings, and drilled shafts. Andrew also provided construction-related engineering services throughout the 3.5-year construction time-frame. Services included fabrication drawing review, responding to contractor RFIs, and contractor proposals, as well as reviewing required contract submittals. |                                                      |                               |                                                      |    |
| 08/16 - 08/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>I-10: LA 328 to LA 347 Widening Project, St. Martin, LA (H.010601)</b><br><b>Lead Bridge Design Engineer.</b> Andrew served as the lead bridge design engineer on this project that included the replacement of two existing mainline bridges over an abandoned railroad and local road with at-grade I-10 roadway and a singular new bridge allowing the local road to overpass the interstate. The scope of this project included the design and detailing of every component while committing to great quality. Initial work on this project included the structure layout (type, size, and location) of the new overpass structure to ensure adequate horizontal and vertical clearance were provided. Structural components included concrete deck, skewed LG-girder superstructures pile-supported bent caps, column bents supported on pile footings, and columns supported on drilled shafts. Andrew also provided construction-related engineering services throughout the three-year construction time-frame. Services included fabrication drawing review, responding to contractor Requests for Information and contract proposals, as well as reviewing required contract submittals.                                    |                                                      |                               |                                                      |    |

## Andrew Windmann resume continued

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|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/26 - Ongoing  | <p><b>IJA Off-System Bridge Replacement Project Management Bundle, Statewide (69 Projects)(4400029197)</b><br/> <b>Contract and Lead Project Manager.</b> Andrew serves as the lead project manager providing project administration and technical review services for a statewide program consisting of more than 69 IJA-funded off-system bridge replacement projects across multiple LADOTD districts. Responsibilities included supporting the LADOTD Project Manager in overseeing project delivery, coordinating milestone reviews, managing stakeholder communication, and tracking environmental, Right-of-Way, utility, and survey-related activities throughout project development. The team performed comprehensive roadway, bridge, and hydraulic design reviews at key submittal milestones, evaluating compliance with current AASHTO criteria, LADOTD policies, construction specifications, and industry best practices while assessing overall constructability and biddability. Services also included review of design reports, design exceptions and waivers, bid package preparation support, contractor proposal evaluations, and recommendations for final plan acceptance and project letting.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 03/13 - 12/19   | <p><b>I-10: I-49 E. Junction to LA 328 Widening Project, Lafayette, LA (H.003003)</b><br/> <b>Lead Bridge Design Engineer.</b> Andrew served as the lead bridge design engineer 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 of every component and detailing of over 300 plan sheets were performed with great quality following LADOTD's QC/QA plan. Structural components included concrete slab span bridges and decks, skewed PPC girder superstructures (AASHTO and LG girders), pile-supported bent caps, column bents supported on pile footings and drilled shafts. Andrew also provided construction-related engineering services throughout the 3.5-year construction time frame. Services included fabrication drawing review, responding to contractor RFIs and contractor proposals, as well as reviewing required contract submittals.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 04/21 - Ongoing | <p><b>Rural Bridge Replacement Initiative Phase II (South), LA (16 Projects) (440001338), Various Locations, LA</b><br/> <b>Bridge Design Lead.</b> Andrew is the bridge design lead 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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 05/10 - 10/23   | <p><b>LADOTD Bridge Design Section</b><br/> <b>Engineer Intern to Assistant Bridge Design Administrator</b> Prior to joining Waggoner, 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. Part of his time working in the Bridge section, Andrew served as a manager in the Bridge Manual, Specifications, and Standards sub-unit, where he oversaw the development of the slab-span standard plans, LG-girder standard plans, among others. Immediately prior to joining Waggoner, Andrew served as the state-wide Bridge Preservation program manager whose responsibility it was to understand the overall health of the over 7000-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. While working for LADOTD, Andrew served as the Department's Bridge Design task manager on several high-profile and critical projects where he was responsible for ensuring the design consultant was providing safe, complete, and constructable structural plans and supporting calculations. Having involvement with these projects exposed him to a wide range of structure types, site considerations/constraints, project hurdles from multiple perspectives (outside stakeholder interests, financial implications, and design/construction concerns), and overall understanding of the magnitude of effort needed from the entire project team to successfully manage/deliver these large projects.</p> |

## 16. STAFF EXPERIENCE:

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|                                                                                                                                                                                                                                                                                                                                                                                        | <b>Firm Employed By:</b>  <b>WAGGONER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                            |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 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 Design                              |                                                      |    |
| <p>Joshua will serve on the bridge design and will be responsible for identifying and documenting subsurface utilities, ensuring accurate location and mapping of all utilities within the project limits. His work will be crucial in coordinating with utility companies and integrating utility adjustments into the preliminary design plans, adhering to LADOTD standards. Joshua has extensive knowledge in HEC-RAS, HYDRWIN, and PondPack software packages.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               |                                            |                                                      |    |
| 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                               |                                            |                                                      |    |
| 09/13 - 08/17                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Load Rating and Posting of On-System Bridges, LADOTD, Statewide, LA</b><br><b>Lead Load Rating Engineer.</b> 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 closely 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                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Essen Lane over Wards Creek Bridge Widening, LADOTD, Baton Rouge, LA</b><br><b>Bridge Design Engineer.</b> 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                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>US 82 over Mississippi River In-Depth Bridge Inspection and Load Rating, MDOT, Greenville, MS</b><br><b>Field Team Leader and Load Rater.</b> 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.                                                                                                                                                                                                                                      |                               |                                            |                                                      |    |
| 05/18 - 05/20                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Worthsville Road over Tracy Ditch Bridge Replacement - Greenwood, Greenwood, IN</b><br><b>Project Manager and Lead Designer.</b> Joshua was the project manager and lead designer. He completed the design of a 72'-6" single-span, Hybrid Bulb-Tee Beam bridge to replace the existing three-sided culvert over Tracy Ditch. Bridge Hydraulic design was completed to size the bridge and provide Q100 roadway serviceability. The bridge was designed to accommodate phased construction so that one lane of traffic could be maintained in each direction during construction. The end bents and bridge piling were spaced and designed to span an existing sanitary force main that could not be relocated. The bridge cross section includes four travel lanes, striped median, two raised sidewalks, and bridge railing.    |                               |                                            |                                                      |    |
| 08/18 - 07/19                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>SR 3 over Willow Creek Rehabilitation, INDOT, Allen County, IN</b><br><b>Project Manager.</b> 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.                                                                                                                                                                                                                                                                                                                                                                          |                               |                                            |                                                      |    |



# Roadway Design Team

Section 16

## 16. STAFF EXPERIENCE:



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| <b>Firm Employed By:</b>  <b>WAGGONER</b>                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                               |                                                      |    |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Joshua Renard, PE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                               | 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                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Roadway Design                |                                                      |    |
| <p>Joshua will serve on the road/drainage design and will be responsible for identifying and documenting subsurface utilities, ensuring accurate location and mapping of all utilities within the project limits. His work will be crucial in coordinating with utility companies and integrating utility adjustments into the preliminary design plans, adhering to LADOTD standards. Joshua has extensive knowledge in HEC-RAS, HYDRWIN, and PondPack software packages.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                               |                                                      |    |
| 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><b>SECTION 17 PROJECT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Hooper Road Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA (H.002316)</b><br><b>Project Manager.</b> 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. |                               |                                                      |    |
| 05/20 - Ongoing<br><b>SECTION 17 PROJECT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)</b><br><b>SUE Project Engineer.</b> 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.      |                               |                                                      |    |
| 10/16 - 12/20                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>I-10: Highland to LA 73 Design-Build Project, East Baton Rouge and Ascension Parish, LA (H.009250)</b><br><b>Utility Coordinator.</b> 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Saline Bayou Relief &amp; Mill Cr. Brs. Water Lines Locate &amp; Design - SUE, Winn Parish, LA - Utility Coordination, QL-A through D Locates, and Relocation Plans</b><br><b>Project Manager.</b> 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                      |    |

## 16. STAFF EXPERIENCE:

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Firm Employed By:</b>  <b>WAGGONER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                               |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 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 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 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 Design                |                                                      |    |
| <p>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.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                               |                                                      |    |
| Experience Dates (mm/yy-mm/yy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |                               |                                                      |    |
| 06/21 - 01/26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>New Roundabout at LA 931 and Roddy Road, Ascension Parish, Gonzales, LA (Prior Firm)</b><br><b>Design Lead.</b> 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>LA 3040 Corridor Improvements Study, LADOTD, Houma, LA (Prior Firm)</b><br><b>Project Manager.</b> Cal led a Stage 0 Feasibility Study for the LADOTD to improve safety and operations along 2.5 miles of LA 3040 (Martin Luther King 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.                                                                                                                                                                                                                        |                                   |                               |                                                      |    |
| 09/19 - 09/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Harrison Avenue Improvements - Study and Design, St. Tammany Parish, Covington, LA (Prior Firm)</b><br><b>Project Engineer.</b> Bucharth Horn served as the prime consultant for the Harrison Avenue Improvements project in Covington, LA, leading a comprehensive study and final design effort to enhance safety, capacity, and pedestrian accessibility along a 2.49-mile urban corridor. The project involved the design of ADA-compliant sidewalks on both sides of the roadway, supported by subsurface drainage improvements and utility conflict coordination. As project engineer, Cal developed and evaluated multiple design alternatives, prepared Right-of-Way maps, and completed final construction documents including grading, signage, erosion control, and cost estimates. The project emphasized improved connectivity to residential neighborhoods and public facilities while addressing drainage and access management challenges in a rapidly developing area.                     |                                   |                               |                                                      |    |
| 05/21 - 03/26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>MOVEBR Jefferson Highway at Corporate Intersection Improvements, City of Baton Rouge/Parish of East Baton Rouge, LA (Prior Firm) Project Manager.</b> This project consists of extending existing and incorporating additional turning lanes, where necessary, to increase storage length and improve capacity. In addition to turning lane improvements, pedestrian facility (sidewalks, crosswalks, etc. and driveway access enhancements were made to improve safety, pedestrian connectivity to transit facilities, and access management.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |                               |                                                      |    |

## 16. STAFF EXPERIENCE:

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Firm Employed By:</b>  <b>WAGGONER</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Name                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Kelsie Bankston, PE</b>    | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                            | Roadway Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                               |                                                      |   |
| <p>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 including drainage structures, travel lanes, shoulders, and utility locations. She will assist in developing preliminary and final plans in 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.</p> |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                      |   |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                            | <b>I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)</b><br><b>Project Engineer.</b> 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. |                               |                                                      |   |
| 10/20 - Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            | <b>Rural Bridge Replacement Initiative, LA</b><br><b>Project Engineer.</b> 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                               |                                                      |   |
| 2021 - 02/23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                            | <b>LA 73: US 61 (Airline Highway) - LA 426 (Essen Lane), East Baton Rouge Parish, LA (H.010652)</b><br><b>Road Design Engineer.</b> 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                                      |   |
| 05/21 - 03/23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                            | <b>LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)</b><br><b>Project Engineer.</b> 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:

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Firm Employed By:</b>  <b>WAGGONER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                         |                               |                                                      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                         | Charlotte Gremillion, PE      | Years of Relevant Experience with this Employer      | 5 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                         | Project Engineer              | Years of Relevant Experience with Other(s) Employers | 2 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Degree(s) / Years / Specialization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                         | BS / 2018 / Civil Engineering |                                                      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Active Registration Number / State / Expiration Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                         | PE#47930 / LA / 09.30.2027    |                                                      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Year Registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2023                                                                                                                                                                                                                                    | Discipline                    | Civil Engineering                                    |   |
| Contract Role(s) / Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Roadway Design                                                                                                                                                                                                                          |                               |                                                      |   |
| <p>Charlotte will be part of the road and drainage team supporting cross-sectioning roadways and ditches at various interval levels. Her role will be crucial in ensuring that the existing conditions are fully understood and reflected in the project plans. Charlotte is experienced with transportation and commercial projects, including road design, geometric design, and on-site work. She is trained and experienced in AutoCAD, Civil 3D, MicroStation, and GlobalMapper, which she uses for plan preparation and design, contributing to high-quality deliverables that meet LADOTD standards.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                         |                               |                                                      |   |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>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)</b><br><b>Lead Design Engineer.</b> 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>LA 1088: Soult and Trinity Roundabouts, St. Tammany Parish, LA (H.010116)</b><br><b>Project Engineer.</b> 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                         |                               |                                                      |   |
| 4/26 - Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>IIJA Off-System Bridge Replacement Project Management Bundle, Statewide (69 Projects)(4400029197)</b><br><b>Contract and Lead Project Manager.</b> Charlotte serves as the project manager providing project administration and technical review services for District 61 and East Baton Rouge Parish consisting of more than 19 IIJA-funded off-system bridge replacement projects. Responsibilities included supporting the LADOTD Project Manager in overseeing project delivery, coordinating milestone reviews, managing stakeholder communication, and tracking environmental, Right-of-Way, utility, and survey-related activities throughout project development. The team performed comprehensive roadway, bridge, and hydraulic design reviews at key submittal milestones, evaluating compliance with current AASHTO criteria, LADOTD policies, construction specifications, and industry best practices while assessing overall constructability and biddability. Services also included review of design reports, design exceptions and waivers, bid package preparation support, contractor proposal evaluations, and recommendations for final plan acceptance and project letting. |                                                                                                                                                                                                                                         |                               |                                                      |   |

## 16. STAFF EXPERIENCE:

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|                                                                                                                                                                                                                                                                                                                                         | <b>Firm Employed By:</b>  <b>WAGGONER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                               |                                                      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                         | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                | <b>Wesley Melancon, PE</b>    | 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 Design |                               |                                                      |   |
| <p>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.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                               |                                                      |   |
| 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><b>SECTION 17 PROJECT</b>                                                                                                                                                                                                                                                                                                                                                                            | <b>I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)</b><br><b>Project Engineer.</b> 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.                                                                                                                                                                            |                |                               |                                                      |   |
| 10/12 - Ongoing<br><b>SECTION 17 PROJECT</b>                                                                                                                                                                                                                                                                                                                                                                            | <b>Hooper Road Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA (H.002316)</b><br><b>Project Engineer.</b> 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.                                                                                                                                                                                                                                                                      |                |                               |                                                      |   |
| 05/23 - Ongoing                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Carroll Avenue over Middle Creek Collyell Creek, Livingston Parish, LA</b><br><b>Project Engineer.</b> Wesley 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. He 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                                                                                                                                                                                                                                                                                                                                                                                                         | <b>MOVEBR Program Management, East Baton Rouge Parish, LA:</b><br><b>Project Engineer.</b> 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.                                                                                                                                                                                                                                                                                     |                |                               |                                                      |   |



# Hydraulics & Drainage Design Team

Section 16

## 16. STAFF EXPERIENCE:

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Firm Employed By:</b>  <b>WAGGONER</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                      |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Name                                                                                                                       | <b>Bryan Harmon, PE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                      | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                            | Design Lead - Hydraulics and Drainage Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                      |                                                      |    |
| <p>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.</p> |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                      |                                                      |    |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            | <b>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)</b><br><b>Supervising Drainage Engineer.</b> 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            | <b>Hooper Road Widening (LA 408) Blackwater - Joor, East Baton Rouge Parish, LA (H.002316)</b><br><b>Hydraulic Design QA/QC.</b> 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. Designed with HYDRWIN, Global Mapper, HEC-RAS, Excel, and Civil3D. |                                                                      |                                                      |    |
| 08/21 - 05/23<br>SECTION 17 PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                            | <b>LA 73: US 61 (Airline Highway) - LA 426 (Essen Lane), East Baton Rouge Parish, LA (H.010652)</b><br><b>Project Manager.</b> 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 quantities and cost.                                                                                                                                                                                                                                                           |                                                                      |                                                      |    |
| 09/22 - Ongoing<br>SECTION 17 PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            | <b>LA 1088: Soult and Trinity Roundabouts, St. Tammany Parish, LA (H.010116)</b><br><b>Project Manager.</b> Bryan led overall project delivery and acting as the primary liaison with LADOTD. He managed multidisciplinary coordination across roadway, drainage, and traffic design to ensure a cohesive and constructible solution, while overseeing schedule, budget, and quality. Bryan also guided stakeholder and agency coordination and provided oversight of the public involvement process, ensuring all deliverables and documentation met LADOTD requirements.                                                                                                                                                                                                                                                                                                                                    |                                                                      |                                                      |    |
| 01/13 - Ongoing<br>SECTION 17 PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            | <b>I-49 South: US 90 &amp; Ambassador Caffery Interchange, Lafayette Parish, (H.002868)</b><br><b>Project Engineer.</b> Bryan is the lead drainage design engineer for a new interchange on future I-49 at Ambassador Caffery Parkway in Lafayette, LA. He is responsible for the subsurface and open ditch drainage design of a 4-tiered interchange, 8 lane mainline, 2-lane one way frontage roads and U-Turns. He also is responsible for coordinating the frontage road extensions and interchange alternative design for future/interim condition implementation.                                                                                                                                                                                                                                                                                                                                       |                                                                      |                                                      |    |

## Bryan Harmon resume continued

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| 08/18 - 10/22   | <p><b>I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)</b><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 LADOTD drainage evaluations for storm drain systems (inlets, pipes, box culverts, and bridges) consideration of impacts to the surrounding floodplain storage basins and wetlands had to be considered. The floodplain area along the southern limits of the project is also bisected by the KCSRR and is subject to significant backwater and overbank flooding from Red Chute Bayou. Due to the floodplain complexities associated with this lateral overflow storage area, coordination with the Bossier Levee District was required which included utilizing elements of their 2-D Unsteady Flow Hec Ras Model for this region. Due to the lateral overflows and interchange of flows, consideration of bridge scour was evaluated for the KCSRR Overpass utilizing the HEC -RAS computer model.</p>                                                                                                                                                                                                                                                                                                                 |
| 03/13 - 07/22   | <p><b>I-10: East Jct. I-49 to LA 328, Lafayette &amp; St. Martin Parishes (H.003003)</b><br/> <b>I-10: LA 328 to LA 347, St. Martin Parish (H.003014)</b><br/> <b>I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)</b><br/> <b>QA/QC.</b> 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.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 04/21 - Ongoing | <p><b>Rural Bridge Replacement Initiative Phase II (South), LA (16 Projects) (440001338), Various Locations, LA Hydraulic Design Engineer.</b> Bryan is serving as Waggoner's supervising Hydraulic Design Engineer for the Phase II Rural Bridge Replacement Initiative. Hydrologic and hydraulic evaluations are being developed to provide a hydraulically suitable replacement for the existing bridge structures that have been designated for replacement under this program. All bridge hydraulic reports, data forms, and data tables are being prepared in accordance the current LADOTD Hydraulics manual and design directives.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 10/20 - Ongoing | <p><b>I-10 and I-12 College Drive Flyover Ramp Design-Build (CE&amp;I/OV), E. Baton Rouge Parish, LA (H.013897)</b><br/> <b>Road Design and Drainage Design Reviewer.</b> Bryan is serving as both a road design and drainage design reviewer, providing support services to LADOTD for this project. This project consists of modifying the I-10 West/College Drive exit into separate I-12 West and I-10 West exits. Bryan's responsibilities include participation in the progress reviews of each Design Unit and Ready for Construction (RFC) Plan submittals. These reviews include roadway plans, construction sequencing, primary drainage systems, open channel design, with consideration being given to LADOTD Design Guidelines, Hydraulics Manual, standard details and specifications, and to potential impacts to the Wards Creek drainage basin and adjoining infrastructure developments. Having served as the drainage engineer, chief engineer, and ultimately the Director of Public works for the East Baton Rouge City-Parish, Bryan brings significant institutional knowledge of the local drainage and roadway systems within the parish and how they may react to this project modification. He clearly understands the concerns that may be expressed by the local community and the need for proper public-private communication and partnership on a project of this magnitude.</p> |

## 16. STAFF EXPERIENCE:

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Firm Employed By:</b>  <b>WAGGONER</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |                                                      |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Name                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Gage Spell, LSI</b>         | Years of Relevant Experience with this Employer      | 2.5 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Title                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Senior Project Designer        | Years of Relevant Experience with Other(s) Employers | 11  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Degree(s)/Years/Specialization                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BS / 2017 / Physical Geography |                                                      |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Active Registration Number/State/Expiration Date                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LSI#686 / LA / 3.31.2027       |                                                      |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Year Registered                                                                                                            | 2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Discipline                     | Surveying                                            |     |
| Contract Role(s)/Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                            | Hydraulics & Drainage Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                |                                                      |     |
| <p>Gage has 11 years of experience in hydrology and hydraulics modeling, site investigation, and project management. He has contributed to major projects, including the MoveBR Sherwood Forest Extension and the Sorrento Pump Station Capacity Increase, where he developed 2D models to assess roadway and pump capacity impacts. From 2017 to 2020, he worked on the Livingston Parish Watershed Modeling project, identifying capital improvement opportunities and conducting aerial drone inspections. Over the past decade, Gage has led drainage design and impact studies for over 100 commercial and residential developments. His expertise in hydrologic and hydraulic modeling, project coordination, and site analysis will enhance the roadway and drainage design and construction support efforts, ensuring compliance with LADOTD standards and effective flood mitigation strategies.</p> |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                |                                                      |     |
| 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><div style="background-color: #c00000; color: white; padding: 2px; display: inline-block;">SECTION 17 PROJECT</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                            | <b>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)</b><br><b>Hydrologic and Hydraulic Modeler.</b> Gage performed corridor modeling and cross-section development for this major interstate reconstruction project. He was responsible for developing proposed corridor models, generating roadway cross sections, and coordinating with the roadway and drainage design teams to ensure the proposed geometry accommodated grading, drainage, and constructability requirements throughout the corridor. His work supported the development of final roadway plans for this complex CMAR project.                                                                                                                                                                                                                                                                                        |                                |                                                      |     |
| 5/23 - Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            | <b>Hanging Moss Creek, Jackson, Hinds County, MS</b><br><b>Hydrologic and Hydraulic Modeler.</b> Gage modeled existing conditions and proposed improvements to identify effective solutions for repetitive flooding in the Bogue Chitto watershed. He analyzed and compared results to provide recommendations to local and state authorities and coordinated with the project team to develop Environmental Assessments in compliance with USDA NRCS standards and requirements. Hinds County had expressed the desire to collaborate in the development of a Comprehensive Watershed Based Stormwater Management Program to identify, analyze, quantify, prioritize, and develop a short- and long-term implementation plan for both capital and maintenance requirements needed to address drainage-related deficiencies throughout the watershed area as directly related to preserving and enhancing municipal and/or county infrastructure.       |                                |                                                      |     |
| 5/23 - Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                            | <b>Lynch Creek Pearl River, Jackson, Hinds County, MS</b><br><b>Hydrologic and Hydraulic Modeler.</b> Gage modeled existing conditions and proposed improvements to identify effective solutions for repetitive flooding in the Bogue Chitto watershed. He analyzed and compared results to provide recommendations to local and state authorities and coordinated with the project team to develop Environmental Assessments in compliance with USDA NRCS standards and requirements. Hinds County had expressed the desire to collaborate in the development of a Comprehensive Watershed Based Stormwater Management Program to identify, analyze, quantify, prioritize, and develop a short- and long- term implementation plan for both capital and maintenance requirements needed to address drainage-related deficiencies throughout the watershed area as directly related to preserving and enhancing municipal and/or county infrastructure. |                                |                                                      |     |

## 16. STAFF EXPERIENCE:

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Firm Employed By:</b>  <b>WAGGONER</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                                      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Name                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Steven Gilliam, PE            | Years of Relevant Experience with this Employer      | 3 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                            | Hydraulics & Drainage Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               |                                                      |   |
| <p>As part of the hydraulics and drainage design team, Steven will focus on the topographic surveys, particularly on the stationing of the project centerline and measuring cross-sections of the roadway. He will ensure that drainage structures, utilities, and other key features are accurately recorded and integrated into the final plans. Steven's attention to detail will ensure that the project designs align with the LADOTD's requirements and reflect the existing site conditions. Steven brings a solid understanding of roadway and site planning design principles, as well as experience with surface water and utility engineering. He has provided engineering design for commercial and residential developments.</p> |                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                                      |   |
| 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                                      |   |
| 09/22 - Ongoing<br><b>SECTION 17 PROJECT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                            | <b>LA 1088: Soutl and Trinity Roundabouts, St. Tammany Parish, LA (H.010116)</b><br><b>Project Engineer.</b> 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.                                                                                                                                                          |                               |                                                      |   |
| 05/20 - Ongoing<br><b>SECTION 17 PROJECT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                            | <b>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)</b><br><b>Project Engineer.</b> Steve designed the proposed drainage systems for the surface streets within the project corridor. This includes HydroWIN calculations for subsurface systems, drainage pump plan profiles, and design drainage maps.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |                                                      |   |
| 03/25 - Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                            | <b>LA 933 at Joe Sevario Road, Ascension Parish, LA (H.014409)</b><br><b>Project Engineer.</b> 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.                 |                               |                                                      |   |
| 02/23 - Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                            | <b>Enterprise Boulevard Extension, Lake Charles, County, LA. Steven is serving as design engineer.</b><br><b>Design Engineer.</b> 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. |                               |                                                      |   |



# Traffic Engineering Team

Section 16

## 16. STAFF EXPERIENCE:

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Firm Employed By:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |                                 |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 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 / 09.30.2027      |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Year Registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1993 | Discipline                      | Civil Engineering                                    |    |
| Contract Role(s) / Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | Discipline Lead / Traffic       |                                                      |    |
| <p>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.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |                                 |                                                      |    |
| Experience Dates (mm/yy-mm/yy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                 |                                                      |    |
| 07/21 - Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>EBR Computerized Traffic Signal, Phase VB, Baton Rouge, LA (H.007160)</b><br><b>Task Leader.</b> Brin is the task leader for Vectura for the Construction Engineering and Inspection of 24 traffic signals. Brin oversaw the review of signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Brin and Reece, with the LADOTD, City-Parish, and the Contractor conducted field visits to confirm pole foundation locations.                                                                                                                                                                                                                                                                                                                                                                                        |      |                                 |                                                      |    |
| 07/19 - Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>MOVEBR New Capacity Projects Program Management, Baton Rouge, LA</b><br><b>Lead Traffic Engineer.</b> 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>LADOTD Belle Chasse Bridge &amp; Tunnel Replacement PPP, Belle Chasse, LA (H.004791)</b><br><b>Project Manager.</b> 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>LA 30 Roundabouts at Tanger I-10, Ascension Parish, LA (H.010960.5)</b><br><b>Project Manager.</b> 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>LA 1 Pedestrian Crosswalk Study and Traffic/Pedestrian Signal Design, West Baton Rouge Parish, Addis, LA</b><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 | <b>US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic/Pedestrian Signal Equipment Design, Slidell, LA</b><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 | <b>Enhancing Guidance for Evacuation Time Estimate Studies (Nuclear Regulatory Commission, Rockville, MD)</b><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 | <b>Signal Design for N. Sherwood Forest Drive Widening Project, Baton Rouge, LA (H.002301)</b><br><b>Project Manager.</b> 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 LADOTD 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 | <b>EBR 03-TS-CI-0026 CE&amp;I/OV for EBR Traffic Signal Systems Jefferson Highway Construction, Baton Rouge, LA</b><br><b>Project Resident Engineer.</b> 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 all items on the EBR project closeout checklist.                                                                                                                                                                                  |
| 07/08 - 09/09 | <b>SPN 013-05-0043 CE&amp;I/OV for EBR Traffic Signal Systems Phase IV Construction, Baton Rouge, LA</b><br><b>Project Resident Engineer.</b> 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 LADOTD Project Closeout Checklist including the 2059 Report. |
| 09/13 - 04/14 | <b>S.P. 700-99-0477 Jefferson Highway Signal Design, Baton Rouge, LA</b><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 | <b>Airline Highway Widening SPN 700-99-0332 (Baton Rouge, LA)</b><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:

|                                                      |                                                  |                                                                                       |                                                      |    |
|------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------|----|
| Name                                                 | <b>Laurence Lucius Lambert II, PE, PTOE, PTP</b> |                                                                                       | 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).

05/23 - 05/24

SECTION 17 PROJECT

### **US 190B/Fremaux Ave Sidewalk Feasibility Study, Slidell, LA**

**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)**

**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)**

**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)**

**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)**

**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)**

**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)**

**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 | <b>MOVEBR LA 67 (Plank Road) Enhancement Project, Baton Rouge, LA</b><br><b>Project Manager.</b> Laurence was the project manager to enhance transit, bicycle, and pedestrian mobility on Plank Road that required both City-Parish and LADOTD approval. Laurence evaluated the proposed pedestrian crossings on LA 67 using the LADOTD Traffic Engineering Manual pedestrian warrants found in Section 3B.2. Laurence also developed traffic operations evaluation of the traffic study which included traffic signal timing evaluations.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 02/20 - 09/21 | <b>College Drive Corridor Enhancement from Perkins Road to I-10, Baton Rouge, LA</b><br><b>Project Manager.</b> 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   | <b>H.013025 LA 182 (University Avenue) Corridor Planning Study (Lafayette, LA)</b><br><b>Lead Transportation Engineer.</b> 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   | <b>Judge Tanner Boulevard at N. Causeway Roundabout Study, St. Tammany Parish, LA</b><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 LADOTD 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   | <b>Minnesota Park Road Improvements Traffic Study, Tangipahoa Parish, LA (H.004957.5)</b><br><b>Task Leader.</b> 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   | <b>Ramp Metering Study of I-10 Segment, East Baton Rouge and Ascension Parishes, Louisiana</b><br><b>Project Manager.</b> 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 | <b>S.P. No. 700-09-0171 Stage 0 and 1 Study I-49 Inner City Connector, Shreveport, LA</b><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 | <b>I-10 Frontage Roads, Picardy Interchange, Bluebonnet Siegen Baton Rouge, LA</b><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:

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|                                                                                                                                                                                                                                                                                                            | <b>Firm Employed By:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |                            |                                                      |   |
|                                                                                                                                                                                                                                                                                                                                                                                             | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Reece Rodriguez, 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 / 03.31.2028 |                                                      |   |
|                                                                                                                                                                                                                                                                                                                                                                                             | Year Registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2017                            | Discipline                 | Civil Engineering                                    |   |
| Contract Role(s) / Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 | Traffic                    |                                                      |   |
| <p>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.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 |                            |                                                      |   |
| Experience Dates (mm/yy-mm/yy)                                                                                                                                                                                                                                                                                                                                                              | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |                            |                                                      |   |
| 04/21 - Ongoing                                                                                                                                                                                                                                                                                                                                                                             | <b>MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA Project Engineer.</b> 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                                                                                                                                                                                                                                                                                                                                                                             | <b>Connected &amp; Autonomous Vehicles (C/AV) Team and Working Group Support (H.012845.1)</b><br>Reece is a member of the team to develop new policies and legislation related to C/AV.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                 |                            |                                                      |   |
| 06/23 - Ongoing                                                                                                                                                                                                                                                                                                                                                                             | <b>Monroe Phase 3 SEA (H.011507.1)</b><br>Reece visited the project site to document the controller type and detection needs at each signalized intersection within the ROW.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 |                            |                                                      |   |
| 07/21 - Ongoing                                                                                                                                                                                                                                                                                                                                                                             | <b>EBR Computerized Traffic Signal, Phase VB, Baton Rouge, LA (H.007160)</b><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                                                                                                                                                                                                                                                                                                                                                                               | <b>Alexandria ITS Phase 2 (H.011504)</b><br><b>Project Engineer.</b> 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                                                                                                                                                                                                                                                                                                                                                                             | <b>LADOTD Belle Chasse Bridge &amp; Tunnel Replacement Public-Private Partnership Project, Belle Chasse, LA (H.004791)</b><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 | <b>I-10 ITS Scott to Lake Charles, Lafayette, Acadia, and Jefferson Davis Parishes, LA (H.013256)</b><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 | <b>Roundabout: US 171 at Boone St., Vernon Parish, LA (H.011909.5-4)</b><br><b>Design Engineer.</b> 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 | <b>LA 30 Roundabouts at Tanger I-10, Ascension Parish, LA (H.010960.5)</b><br><b>Design Engineer.</b> 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 | <b>Emergency Street Light and Traffic Sign Assessment, New Orleans, LA</b><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 | <b>College Drive Corridor Enhancement from Perkins Road to I-10, Baton Rouge, LA</b><br><b>Task Leader.</b> 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 | <b>Burgess Avenue at Duff Road Traffic Signal Design, Walker, LA</b><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 | <b>US 190 Superstreet Task Order, St. Tammany Parish, LA (H.005733.5)</b><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 | <b>Ochsner Main Campus Traffic Signals, Jefferson Parish</b><br><b>Design Engineer.</b> 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 | <b>Loyola Interchange Modification Request, Kenner, LA</b><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:

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|                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Firm Employed By:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |                            |                                                      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Kristen Farrington, PE, PTOE, RSP1</b> |                            | 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 / 03.31.2027 |                                                      |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Year Registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2018                                      | Discipline                 | Civil Engineering                                    |   |
| Contract Role(s) / Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           | Traffic                    |                                                      |   |
| <p>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.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                           |                            |                                                      |   |
| 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<br><b>SECTION 17 PROJECT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>US 190B/Fremaux Ave Sidewalk Feasibility Study, Slidell, LA</b><br><b>Project Manager.</b> 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>South Range Road Stage 0, Tangipahoa Parish, LA (H.972501.1)</b><br><b>Project Manager.</b> 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>CCC Decorative Lighting Level 4 TMP, New Orleans, LA (H.015504.5)</b><br><b>Project Traffic Lead.</b> 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Capital Area Pathways Project, Baton Rouge, LA (H.013267)</b><br><b>Lead Designer.</b> Kristen is the lead designer for four pedestrian hybrid beacons (PHB's) with two crossings located on state routes. The locations were approved in a previous study and are now under design for construction. Kristen is working closely with the City and LADOTD on the construction plan development as PHB's are a new traffic control device for LADOTD. Prior to the design of the PHB's, Kristen prepared a traffic study evaluating all six uncontrolled crosswalks along the path, which included data collection and determining the appropriate treatment for each crossing location based on FHWA, LADOTD and MUTCD guidance. |                                           |                            |                                                      |   |
| 09/17 - 09/18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>LA 73 Corridor Study Stage 0 (LA 74 to LA 621), Ascension Parish, LA (H.011160)</b><br><b>Designer.</b> 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>I-49 at US 190 and LA 31 Interchange Improvements Stage 0, St. Landry Parish, LA (H.011243.1)</b><br><b>Project Manager.</b> 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

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| 04/19 - 6/21  | <b>LA 117 Improvements Stage 0 (Vernon and Natchitoches Parishes, LA (H.013817.1))</b><br><b>Project Engineer.</b> 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 | <b>LA 429 Connector Stage 0, Ascension Parish, LA (H.012311)</b><br><b>Task Leader.</b> 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  | <b>LA 3040 Feasibility/Safety Study Stage 0, Houma, LA (H.013322)</b><br><b>Project Engineer.</b> Kristen served as project engineer for a study to identify safety and operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA to evaluate reasonable alternatives to address any deficiencies discovered. Kristen was responsible for compiling a data collection plan for submittal to LADOTD, including count locations, determined peak periods, and peak hours. Kristen performed peak period observations in the field and geometric field checks, as well as unmet demand observations and calculations. Kristen prepared TMC figures, as well as performed existing analysis in Vistro. Compiled all data collected into Appendices A and B per the LADOTD Traffic Process and Report and wrote Chapter 1 of report. Kristen represented the project at stakeholder meetings to discuss project status.                |
| 04/18 - 04/19 | <b>I-49 at US 190 and LA 31 Interchange Improvements Stage 0, St. Landry Parish, LA (H.011243.1)</b><br><b>Project Engineer.</b> 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 | <b>LA 73 Corridor Study Stage 0 LA 74 to LA 621, Ascension Parish, LA (H.011160)</b><br><b>Designer.</b> 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 | <b>Cane River Bridge Church Street Route LA 1-X Environmental Assessment (H.001271)</b><br><b>Project Engineer.</b> 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |



# Geotechnical Engineering Team

Section 16

## 16. STAFF EXPERIENCE:



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| <b>Firm Employed By:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                       |                                                     |    |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Megan Bourgeois, PE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                       | Years of relevant experience with this employer     | 20 |
| Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Principal Engineer / Assistant Branch Manager                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                       | Years of relevant experience with other employer(s) | 0  |
| Degree(s) / Years / Specialization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BS / 2006 / Civil Engineering                                                                                                                         |                                                     |    |
| Active Registration Number / State / Expiration Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PE#0036725 / LA / 03.31.2028   Traffic Control Supervisor / LA / 06.21.2028<br>DOTD Flagger / LA / 08.14.2028   Certified NHI Drilled Shaft Inspector |                                                     |    |
| Year registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Discipline                                                                                                                                            | Civil Engineering                                   |    |
| Contract Role(s)/Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Discipline Lead - Geotechnical                                                                                                                        |                                                     |    |
| <p>Ms. Bourgeois has more than 20 years of experience with design and analyses of countless types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA &amp; GEC design, slope stability (embankment and excavation) and earth retaining structures. She also has extensive experience with geotechnical instrumentation, installation and monitoring, and construction phase testing and laboratory management. She has served as Ardaman's project manager for many LADOTD projects for bridges and roadways throughout Louisiana and completed numerous geotechnical investigations, engineering, and reporting in accordance with LADOTD standards. She has successfully overseen several major contracts for LADOTD and other clients. Ms. Bourgeois also serves as the director of our geotechnical engineering and CMT laboratories in Baton Rouge and has overseen the laboratory testing programs in accordance with LADOTD standards. In this role, she supervises the laboratory managers, oversees testing, provides guidance to laboratory staff, and ensures appropriate protocol is followed and deadlines are met in addition to providing training material and maintaining all laboratory certifications, including AMRL, CCRL, DEQ &amp; USACE.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                       |                                                     |    |
| Experience Dates (mm/yy-mm/yy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                       |                                                     |    |
| 07/23-Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>H.013284 / MRB S GBRL: LA 1 to LA 30 Connector: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA Project Engineer.</b> The project consists of an Enhanced Planning investigation into S.P. No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments. Ms. Bourgeois helped oversee supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile all the soil borings and ECPT. The preliminary engineering analyses included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations.           |                                                                                                                                                       |                                                     |    |
| 07/21-01/22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>H.003931 / I-10 Calcasieu River Bridge: Calcasieu Parish, LA Project Manager.</b> Managed all aspects of this project pertaining to coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 geophysical survey transects. A majority of the soil borings were completed from a barge over deep water, some from a marsh buggy over shallow water and thick marsh grass. Ms. Bourgeois also managed and oversaw the laboratory testing program and processing and analyzing of the ECPT and ER data. She also assisted with development of a geotechnical database and preparation and submittal of a geotechnical data report. This project consisted of obtaining geotechnical data under a strict deadline to be used in the design of a replacement of the existing I-10 Calcasieu River Bridge with a new structure and improvements to various other interchanges. |                                                                                                                                                       |                                                     |    |
| 04/21-Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / Rural Bridge Initiative Phase II: West Feliciana, East Feliciana, Livingston, and St. Bernard Parishes, LA Project Engineer.</b> This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, over various size rivers and creeks. Ms. Bourgeois leads technical reviews pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses, construction testing program recommendations, and report preparation in accordance with LADOTD guidelines.                                                                                                                                 |                                                                                                                                                       |                                                     |    |

## Megan Bourgeois resume continued

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| 02/20-Ongoing | <b>H.004791 / Design Support Services LA 23, Belle Chasse Bridge &amp; Tunnel: Plaquemine Parish, LA</b><br><b>Project Engineer/Laboratory Director.</b> Ardaman's scope consists of review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's for the P3 Project consisting of replacing the Belle Chasse bridge and tunnel. In addition, Ardaman performs acceptance verification sampling and testing during the construction for soils and concrete. Ms. Bourgeois assisted in review and acceptance of geotechnical services as well as quality control and review of all acceptance verification sampling and testing during construction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 07/15-Ongoing | <b>H.004273.5 / I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange): Lafayette Parish, LA</b><br><b>Project Engineer.</b> Assisting the Program Manager in overseeing the geotechnical investigation and design of the 5 miles of freeway consisting of a 3.5-mile elevated structures that will include pile supported approach slabs, pile foundations, slope stability, embankment settlement, pavement design, advanced pile load test programs, and earth retaining structures. Overseeing laboratory program which will include a total of more than 400 borings including deep borings, shallow borings, and CPT soundings. Ms. Bourgeois is the project lead to develop the Geotechnical Investigation and Design Report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 10/09-Ongoing | <b>H.004646.5 / I-20 Mississippi River Bridge Review: Vicksburg, MS</b><br><b>Project Manager.</b> Ms. Bourgeois manages this multi-million-dollar, highly technical project consisting of investigating movement of the I-20 Bridge in Vicksburg, MS. She managed a highly technical team including academia, experts, including internationally recognized geotechnical engineers, geohydrologists, instrumentation specialists, and 3-D geotechnical modeling experts. She managed and personally oversaw a comprehensive laboratory testing program and was involved in refining the geotechnical site characterization for the bank/bluff where there was evidence of shifting creating movement in the bridge structure. The specialized testing, she personally performed or managed included x-ray diffraction, x-ray scanning to identify existing shearing planes and stress-reversal direct shear tests to determine true residual angles of critical strata. She was instrumental in designing the geotechnical instrumentation program for this project including vibrating wire piezometers, Casagrande type piezometers, SAA inclinometers, and traditional inclinometers. In addition, Ms. Bourgeois performed seepage and drawdown analyses, slope stability analyses, evaluation of remedial measures including design and evaluation of large foundation structures and developed technically feasible solutions to mitigate ground movement. She co-authored the geotechnical analysis and design report. She is currently overseeing the comprehensive monitoring program. |
| 09/22-12/25   | <b>Evangeline Road &amp; CN Railroad Culvert: St. Charles Parish, LA</b><br><b>Project Engineer.</b> Ardaman completed subsurface exploration and geotechnical engineering evaluation. The project consists of the installation of two reinforced concrete box culverts (RCBCs) on the north and south sides of the CN Railroad as it crosses over Evangeline Road near Montz, Louisiana in St. Charles Parish. Ardaman performed the geotechnical fieldwork and engineering evaluation including recommendations for site preparation, shoring and bedding recommendations, and pavement design in a final report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 11/21-Ongoing | <b>H.012030 / US 371: KCS Railroad Overpasses HBI: Webster Parish, LA</b><br><b>Project Engineer.</b> The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Ardaman performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## 16. STAFF EXPERIENCE:

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Firm Employed By:</b>  <b>Ardaman &amp; Associates, Inc.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |                                                                                                            |                                                     |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Robert Jewell, PE</b>          |                                                                                                            | Years of relevant experience with this employer     | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Project Engineer / Branch Manager |                                                                                                            | Years of relevant experience with other employer(s) | 0  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Degree(s) / Years / Specialization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   | BS / 2009 / Civil Engineering                                                                              |                                                     |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Active registration number / state / expiration date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   | PE#38579 / LA / 09.30.2026   Traffic Control Supervisor / LA / 08.23.2028   DOTD Flagger / LA / 07.31.2029 |                                                     |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Year registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2013                              | Discipline                                                                                                 | Civil Engineering                                   |    |
| Contract Role(s)/Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   | Geotechnical                                                                                               |                                                     |    |
| <p>Mr. Jewell serves as the branch manager of our Baton Rouge office and has over 19 years of experience with design and analyses of countless types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA &amp; GEC design, slope stability (embankment and excavation) and earth retaining structures. He has managed and coordinated many geotechnical field investigations, including shallow and deep borings, CPT soundings, and performed analyses and prepares design recommendation reports for LADOTD projects. Mr. Jewell has extensive experience in construction phase testing and oversight including dynamic and static testing, pile integrity testing, cross hole sonic logging, settlement monitoring, and geotechnical instrumentation. In particular, he has over 15 years of experience performing, analyzing, and reporting for PDA testing.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |                                                                                                            |                                                     |    |
| Experience Dates (mm/yy-mm/yy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                                                                                            |                                                     |    |
| 07/23-Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>H.013284 / MRB S GBRL: LA 1 to LA 30 Connector: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA Project Manager.</b> The project consists of an Enhanced Planning investigation into S.P. No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments. Mr. Jewell managed supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile all the soil borings and ECPT. He helped oversee the preliminary engineering analyses which included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations. A data report and preliminary geotechnical assessment report were submitted. |                                   |                                                                                                            |                                                     |    |
| 07/21-Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>H.004100.5 / I-10: LA 415 to Essen Lane on I-10 &amp; I-12 (CMAR): Baton Rouge Parish, LA Project Manager.</b> The project consists of a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles. Mr. Jewell currently oversee all aspects of engineering analyses pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. Mr. Jewell helped develop the Geotechnical Data reports, memorandums, and Design reports for this project.                                                                                                                            |                                   |                                                                                                            |                                                     |    |
| 06/20-06/21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Nicholson Drive (LA Hwy 30) Segment 1: East Baton Rouge Parish, LA Project Engineer.</b> This project consisted of the reconstruction and widening of a section of Nicholson Drive between the intersections of Brightside Lane and Burbank Drive for the MOVEBR Program. Thirteen shallow soil borings and two deep soil borings were drilled at the subject site and associated laboratory testing was performed. Engineering analyses included pavement and culvert crossing design recommendations in accordance with LADOTD specifications.                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |                                                                                                            |                                                     |    |
| 11/21-Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>H.012030 / US 371: KCS Railroad Overpasses HBI: Webster Parish, LA. Project Manager.</b> The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Ardaman performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |                                                                                                            |                                                     |    |

## Robert Jewell resume continued

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| 04/21-Ongoing | <b>700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / Rural Bridge Initiative Phase II: West Feliciana, East Feliciana, Livingston, and St. Bernard Parishes, LA</b><br><b>Project Manager.</b> The project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers, and creeks. Mr. Jewell oversees all aspects of engineering analyses pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses and construction testing program recommendations.                                                                                                                                                                                                                                                                          |
| 10/18-11/21   | <b>H.003370 / I-220 / I-20 Interchange Improvement and Barksdale Air Force Base Access Road: Bossier Parish, LA</b><br><b>Project Manager.</b> This was a Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructing an interchange and access road from Interstate 20 in Bossier City, Louisiana. Mr. Jewell managed and oversaw the preparation of the preliminary design and planning report. Mr. Jewell also oversaw the field construction services consisting of PDA monitoring, bi-directional load cell load tests, and settlement monitoring. The PDA program consisted of monitoring PPC piles during initial drive and restrikes to allow for evaluation of setup and early acceptance of pile resistances.                                                                                                                                                                                                             |
| 10/15-10/21   | <b>H.013579 / Pecue Lane I-10 Interchange: East Baton Rouge Parish, LA</b><br><b>Project Engineer.</b> This project consists of twin bridges with MSE wall abutments for both bridges crossing Interstate I-10, a bridge crossing Ward's Creek, and on/off-ramps in south Baton Rouge. Mr. Jewell helped perform analyses including settlement estimates with recommendations for monitoring, driven pile and drilled shaft design including down drag considerations, MSE Wall design, slope stability and pavement section recommendations; all completed according to LADOTD standards. Mr. Jewell is currently overseeing the construction phase which includes PDA monitoring, static load testing, and settlement monitoring.                                                                                                                                                                                                                                                                    |
| 07/15-Ongoing | <b>H.004273.5 / I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange): Lafayette Parish, LA</b><br><b>Project Manager.</b> The project consists of construction of 5 miles of freeway consisting of a 3.5-mile elevated structure from I-10 to the Airport in Lafayette, LA. Mr. Jewell oversaw the completion of the Phase I geotechnical investigation, which included 116 deep and shallow soil boring, and 15 CPT soundings, and laboratory testing program per LADOTD guidelines. Mr. Jewell oversaw the completion of the Geotechnical Data Report and assisted with technical reviews pertaining to selection of design reaches, geotechnical design of pile and drilled shaft foundations, drivability, slope stability, earth retaining structures, settlement analyses and construction testing program recommendations, including an advanced test pile program. He is currently overseeing development of the Phase 2 field and laboratory program for each segment. |
| 04/14-Ongoing | <b>H.004435 / I-12 to Bush Segment 2, LA 3241 (LA 36-LA435): St. Tammany Parish, LA</b><br><b>Project Manager.</b> Mr. Jewell oversaw and coordinated the geotechnical investigation which included drilling 32 deep soil borings, 10 culvert borings, and 88 shallow roadway borings, sampling, and laboratory testing along the alignment which includes two bridges: LA 435 over Bayou Lacombe Tributary and LA 36 over Bayou Lacombe Tributary 2. He assisted in developing the geotechnical analyses and design recommendation report which included pile foundations for the bridge structures and shallow foundation design for the culverts. Mr. Jewell oversaw the construction phase which included PDA testing and settlement monitoring.                                                                                                                                                                                                                                                   |
| 10/09-Ongoing | <b>H.004646.5 / I-20 Mississippi River Bridge Review: Vicksburg, MS</b><br><b>Project Engineer.</b> Mr. Jewell assisted in several aspects of engineering for this multi-million-dollar, high risk, high technical needs, high visibility project consisting of investigating movement of the I-20 Bridge in Vicksburg, MS. This project consisted of a comprehensive laboratory testing program and refinement of the geotechnical site characterization for the bank/bluff where there was evidence of shifting creating movement in the bridge structure. Mr. Jewell helped managed the field investigations and instrumentation programs, along with review of the field data and engineering reporting.                                                                                                                                                                                                                                                                                           |

## 16. STAFF EXPERIENCE:

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Firm Employed By:</b>  <b>Ardaman &amp; Associates, Inc.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |                                                                                 |                                                     |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Ross McGillivray, PE</b> |                                                                                 | Years of relevant experience with this employer     | 29 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Principal Engineer          |                                                                                 | Years of relevant experience with other employer(s) | 29 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Degree(s) / Years / Specialization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             | MS / 1968 / Civil Engineering (Soil Mechanics)   BCE / 1966 / Civil Engineering |                                                     |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Active Registration Number / State / Expiration Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             | PE#17920 / FL / 02.28.2027                                                      |                                                     |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Year registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1998                        | Discipline                                                                      | Civil Engineering                                   |    |
| Contract Role(s)/Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Geotechnical                |                                                                                 |                                                     |    |
| <p>Mr. McGillivray, a principal engineer at Ardaman's Tampa office, provides technical review and consultation on multiple types of foundations including building and bridge foundations, geotechnical and materials engineering for port facilities, pavement systems, earth structures, surface mining, groundwater hydrology, and sinkhole evaluation and remediation. He has supported projects across Ardaman's Florida, Baton Rouge, and New Orleans offices, including multiple LADOTD projects. From 1968 to 1970, he managed MIT's soil mechanics lab and researched soil and industrial waste behavior. At Lambe &amp; Associates, he worked on soil stability and anchor capacity for Caracas's Parque Central retaining wall and helped develop a permafrost and soil mechanics lab in Anchorage. In 1975, he founded ARMAC Engineers, focusing on foundations, sinkhole remediation, mine slope stability, and earthen dams. He joined Ardaman in 1996 as a Senior Engineer, contributing to mining and foundation projects.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                                                                                 |                                                     |    |
| Experience Dates (mm/yy-mm/yy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                             |                                                                                 |                                                     |    |
| 07/23-Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>H.013284 / MRB S GBRL: LA 1 to LA 30 Connector: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA Principal Engineer.</b> The project consisted of an Enhanced Planning investigation into S.P. No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments. Mr. McGillivray reviewed all design aspects of this project including caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations.                             |                             |                                                                                 |                                                     |    |
| 07/21-Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>H.004100.5 / I-10: LA 415 to Essen Lane on I-10 &amp; I-12 (CMAR): Baton Rouge Parish, LA Project Engineer.</b> The project consists of a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles. Mr. McGillivray reviewed all design aspects of this project including pile and drilled shaft foundations, detailed soil structure interactions with existing bridges, bi-directional O-cell tests oversight, review, and redesign, and reporting. |                             |                                                                                 |                                                     |    |
| 09/20-12/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>H.013897 / College Dr Flyover Ramp I-10 / I-12: Baton Rouge Parish, LA Principal Engineer.</b> Mr. McGillivray assisted with review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's for the construction of a flyover ramp on I-10                                                                                                                                                                                                                                                                                                                                                                                    |                             |                                                                                 |                                                     |    |
| 02/20-Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>H.004791 / Design Support Services LA 23 Belle Chasse Bridge and Tunnel: Plaquemine Parish, LA Principal Engineer.</b> Mr. McGillivray assisted with review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's for the P3 Project consisting of replacing the Belle Chasse bridge and tunnel                                                                                                                                                                                                                                                                                                                             |                             |                                                                                 |                                                     |    |
| 10/18-11/21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>H.003370 / I-220/I-20 Interchange Improvement and Barksdale Air Force Base Access Road: Bossier Parish, LA Principal Engineer.</b> This was a Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructing an interchange and access road from Interstate 20 in Bossier City, Louisiana. Mr. McGillivray helped review and perform analyses of the drilled shaft bi-directional O-cell tests.                                                                                                                                                                                                                                |                             |                                                                                 |                                                     |    |

## Ross McGillivray resume continued

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| 11/15-Ongoing | <b>SP NO. H.011309 / MacArthur Interchange Completion Phase II Route US 90-Z: Jefferson Parish, LA</b><br><b>Principal Engineer.</b> Mr. McGillivray reviewed and evaluated the capacity of tip-grouted Drilled Shafts utilizing Cone Penetrometer Test (CPT) sounding data for Phase II of the MacArthur Interchange consisting of construction ramps entering and exiting Westbank Expressway.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 06/09-02/10   | <b>SR 686 Overpass Bridge: St. Petersburg, FL</b><br><b>Principal Engineer.</b> The SR 686 Overpass Bridge, 1,500 feet long, crosses a solid waste landfill lined with a slurry wall and in-situ clay. The original foundation design used 24-inch prestressed concrete piles inside 36-inch steel casings, grouted in place. Mr. McGillivray evaluated alternatives and proposed non-redundant drilled shafts to minimize penetrations of the clay liner. The final design included 36-, 48-, and 60-inch drilled shafts. Two Osterberg Cell load tests with 2-inch Styrofoam toes measured skin friction above and below the cell. Ardaman conducted pilot borings and inspected all drilled shaft installations.                                                                                                                                                 |
| 05/05-11/05   | <b>I-10 Bridges Over Escambia Bay: Pensacola, FL</b><br><b>Principal Engineer.</b> The I-10 bridge over Escambia Bay, damaged by Hurricane Ivan in 2004, consisted of two 2.6-mile, three-lane bridges with 103 spans each. Mr. McGillivray, PE, served as Lead Geotechnical Engineer for the replacement foundation design. This was Florida's first use of 36-inch voided prestressed concrete piles since 1972. Driving criteria were set for two pile hammers with 150 kip-ft energy but differing ram weights (30 and 60 kips). Wave Equation Analyses and PDA/CAPWAP showed that the lighter ram hammer was marginal for production piling installation. Vertical and lateral load tests correlated well with static capacity and PDA/CAPWAP analyses, with lateral load results requiring soil strengths from Cone Penetrometer Tests for accurate modeling. |

## 16. STAFF EXPERIENCE:

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Firm Employed By:</b>  <b>Ardaman &amp; Associates, Inc.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   |                               |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Robert Rousset, PE</b>                         |                               | Years of Relevant Experience with this Employer      | 20 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Project Engineer/Vice President, Regional Manager |                               | Years of Relevant Experience with Other(s) Employers | 0  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Degree(s)/Years/Specialization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                   | BS / 2008 / Civil Engineering |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Active Registration Number/State/Expiration Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                   | PE#38637 / LA / 09.30.2026    |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Year Registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2014                                              | Discipline                    | Civil Engineering                                    |    |
| Contract Role(s)/Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                   | Geotechnical                  |                                                      |    |
| <p>Mr. Rousset serves as the regional manager of Ardaman's New Orleans office and has over 20 years of experience with design and analyses of countless types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), slope stability (embankment and excavation) and earth retaining structures. He has managed and coordinated many geotechnical field investigations, including shallow and deep borings, CPT soundings, and performed analyses and prepares design recommendation reports for LADOTD projects. Mr. Rousset has extensive experience in construction phase testing and oversight including dynamic and static testing.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                   |                               |                                                      |    |
| 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                   |                               |                                                      |    |
| 05/21-Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>H.014217, H.014218, H.014225, H.014228, H.014233, H.014236 / Rural Bridge Replacement Phase II: West Feliciana, East Feliciana, Livingston, and St. Bernard Parishes, LA</b><br><b>Project Engineer.</b> The Rural Bridges project initiative consists of replacing many older bridges throughout the State of Louisiana. The scope of the proposed bridge replacement project involves demolishing and replacing the existing bridges. Ardaman performed geotechnical analyses to support foundation designs provided in a report based on the AASHTO LRFD Bridge Design Specifications, the LADOTD Bridge Design Technical Memoranda, and the Louisiana Standard Specifications for Roads and Bridges (LSSRB).                                                                                                                                                                                                                     |                                                   |                               |                                                      |    |
| 08/20-Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>H.013942, H.013948, H.013979, H.013985, H.013987, H.013988 / Rural Bridges Replacement: Avoyelles, Webster Parishes, LA</b><br><b>Project Engineer.</b> The replacement of multiple small rural bridges throughout Central and North Louisiana. Mr. Rousset oversaw the field investigation, laboratory testing program, and engineering analyses for the project. Engineering analyses consisted of axial pile capacities, pile drivability, settlement, and slope stability analyses, and reporting in accordance with LADOTD guidelines.                                                                                                                                                                                                                                                                                                                                                                                          |                                                   |                               |                                                      |    |
| 03/19-07/20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>H.004100.5-2 / I-10 Widening (LA415 to Howard St): East Baton Rouge Parish, LA</b><br><b>Project Engineer.</b> The project consists of the widening of the East and Westbound lanes, elevated structures, and construction of interchange and ramps on Westbound lanes along I-10 between LA 415 and Howard Street spanning approximately 1 mile. Mr. Rousset helped oversee the geotechnical fieldwork portion of this project which included 58 deep borings and 11 cone penetrometer (CPT) soundings.                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                   |                               |                                                      |    |
| 07/16-Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>H.011152 / I-12 Widening (US 190 to LA 59): St. Tammany Parish, LA</b><br><b>Project Manager.</b> Mr. Rousset managed this project which included the widening of Interstate 12 in St. Tammany Parish. Ardaman conducted a geotechnical investigation which included 23 deep soil borings, sampling, and laboratory testing along the 3-mile alignment between US 190 and LA 59 for lane widening which included four bridges structures. The field investigation, conducted in accordance with LADOTD specifications, included field reconnaissance including determining access and gaining rights of entry, completing utility locations, locating/staking boring locations, and developing a plan for the initial mobilization of equipment to the site and mobilization between sites. Soil boring logs were created in LADOTD format. Engineering analyses for a retaining wall for one of the bridge abutments was conducted. |                                                   |                               |                                                      |    |

## Robert Rousset resume continued

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| 05/12-03/13   | <b>H.002260.5 / Goose Bayou Bridge Route LA 45: Lafitte, LA</b><br><b>Assistant Project Engineer.</b> Mr. Rousset managed the geotechnical field investigation for the bridge that included drilling and laboratory testing of 2 deep soil borings and 4 CPT soundings performed with barge-mounted drilling equipment under difficult access conditions. He assisted with providing final soil boring logs and CPT sounding logs in LADOTD format.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2015-Present  | <b>Houma Navigational Canal Lock Complex, Terrebonne Parish, LA</b><br><b>Project Manager.</b> Mr. Rousset was project manager during the completed 15% design phase and currently during the ongoing 60% design phase and pile load test program. Mr. Rousset is managing the review of existing geotechnical data and implementation of a phased approach to conduct the field investigation to obtain additional subsurface data, while maintaining the aggressive project schedule. He is also overseeing laboratory testing conducted on the soil borings obtained during the field investigation, the geotechnical engineering analyses, development of conclusions and recommendations, and final report preparation.                                                                                                                                                             |
| 10/18-01/19   | <b>H.003370 / I-220 / I-20 Interchange Improvement and Barksdale Air Force Base Access Road: Bossier Parish, LA</b><br><b>Project Engineer.</b> Mr. Rousset assisted in planning and coordination of installation of automated settlement monitoring instrumentation. Also assisted in preliminary design and planning report for this Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructing an interchange and access road from Interstate 20 in Bossier City, Louisiana.                                                                                                                                                                                                                                                                                                                                      |
| 12/18-Ongoing | <b>Mid-Barataria Sediment Diversion CMAR: Plaquemines Parish, LA, BA-153</b><br><b>Project Manager.</b> Mr. Rousset serves in the role of Project Manager for this CMAR project that includes the construction of a new Sediment Diversion Structure located in Plaquemines Parish, Louisiana, along the west bank of the Mississippi River, just north of Ironton and south of the Phillips 66 Alliance Refinery, near Mississippi River Mile 61. Ardaman will work together with the selected CMAR contractor, Archer Western - Alberici, to provide investigations, laboratory testing, instrumentation installations, and geotechnical engineering consulting services during design and construction phases of this project. The diversion structure will include an intake structure, a new Hwy. 23 bridge over the diversion, guide levee system, and outfall transition feature. |
| 07/14-05/18   | <b>H.004113 / I-12 to Bush Segment 3, LA Highway 3241 (LA 435 to LA 40/LA 41): St. Tammany Parish, LA</b><br><b>Project Engineer.</b> Mr. Rousset oversaw and coordinated the geotechnical field investigation which included 26 soil borings, sampling, and laboratory testing along the alignment that included one bridge, LA 435 over Talisheek Creek. He assisted in the geotechnical analyses and preparation of design recommendation report which included pile supported approach slabs and pile foundations for the bridge structures and shallow foundation design for the culverts.                                                                                                                                                                                                                                                                                          |
| 03/11-02/12   | <b>H.003886.5 / I-49 SEGMENT J: Caddo Parish, LA</b><br><b>Assistant Project Engineer.</b> Mr. Rousset planned the geotechnical investigation program, coordinated field activities, assigned lab testing, reviewed laboratory test results, classified soil types based on laboratory tests, and compiled soil boring logs in DOTD format.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 08/09-12/09   | <b>CENTRAL THRUWAY: East Baton Rouge Parish, LA</b><br><b>Assistant Project Engineer.</b> Mr. Rousset performed PDA testing on pre-stressed, pre-cast concrete piles for various bents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 07/09-08/11   | <b>700-29-0112 / LA-1- PHASE 1: Lafourche Parish, LA</b><br><b>Assistant Project Engineer.</b> Mr. Rousset served in the field as on-site geotechnical engineer during construction for this project. He oversaw and conducted dynamic monitoring using the Pile Driving Analyzer (PDA), performed CAPWAP analyses, reviewed drive logs, and supervised field technicians.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## 16. STAFF EXPERIENCE:



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| Firm Employed By:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                                                                                                             |                                                      |   |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Jarmon King, PE            |                                                                                                             | Years of Relevant Experience with this Employer      | 5 |
| Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Assistant Project Engineer |                                                                                                             | Years of Relevant Experience with Other(s) Employers | 1 |
| Degree(s)/Years/Specialization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            | BS / 2019 /Civil Engineering                                                                                |                                                      |   |
| Active Registration Number/State/Expiration Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            | PE#49179 / LA / 03.31.2027   Traffic Control Supervisor / LA / 11.08.2027<br>DOTD Flagger / LA / 05.29.2028 |                                                      |   |
| Year Registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2019                       | Discipline                                                                                                  | Civil Engineering                                    |   |
| Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            | Geotechnical                                                                                                |                                                      |   |
| <p>As a project engineer of Ardaman in the Baton Rouge office with over 8 years of experience. Mr. King is involved with overseeing and conducting geotechnical investigations. Mr. King also prepares soil boring logs; processes and analyzes Cone Penetration Test (CPT) sounding design and analyses of multiple types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA &amp; GEC design, slope stability (embankment and excavation) and earth retaining structures. Mr. King has experience in overseeing and performing Pile Driving Analyzer (PDA) testing during the construction phase of projects.</p>                                                                                                                                                                                                                                   |                            |                                                                                                             |                                                      |   |
| 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                                                                                                             |                                                      |   |
| <b>H.013284 / MRB S GBRL: LA 1 to LA 30 Connector: West Baton Rouge, Iberville, Ascension, East Baton Rouge Parishes, LA Project Engineer.</b> The project consists of an Enhanced Planning investigation into S.P. No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments. Mr. King helped oversee the field program, development of the laboratory testing program, development of an interactive geotechnical database to compile all the soil borings and ECPT. He helped perform the preliminary engineering analyses included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations. Mr. King assisted in preparation of the Data and Design reports for this project. |                            |                                                                                                             |                                                      |   |
| <b>H.004100.5 / I-10: LA 415 to Essen Lane on I-10 &amp; I-12 (CMAR): Baton Rouge Parish, LA Project Engineer.</b> The project consists of a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles. Mr. King co-manages and oversees the engineering analyses pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. Mr. King helped develop the Geotechnical Data reports, memorandums, and Design reports for this project.                                                                                          |                            |                                                                                                             |                                                      |   |
| <b>700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / Rural Bridge Initiative Phase II: West Feliciana, East Feliciana, Livingston, and St. Bernard Parishes, LA Assistant Project Engineer.</b> This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers and creeks. Mr. King assisted in engineering design pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses, construction testing program recommendations, and report preparation in accordance with LADOTD guidelines.                                                                                                                                                           |                            |                                                                                                             |                                                      |   |

## 16. STAFF EXPERIENCE:

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Firm Employed By:</b>  <b>Ardaman &amp; Associates, Inc.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |                                                        |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Jessica N. Litt    |                                                        | Years of Relevant Experience with this Employer      | 12 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Laboratory Manager |                                                        | Years of Relevant Experience with Other(s) Employers | 0  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Degree(s)/Years/Specialization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    | BS / 2010 / Biology                                    |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Active Registration Number/State/Expiration Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    | NICET / Generalist, Laboratory No. 141243 / 10-01-2027 |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Year Registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | N/A                | Discipline                                             | N/A                                                  |    |
| Contract Role(s)/Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    | Drilling Supervisor                                    |                                                      |    |
| <p>Ms. Litt serves as Laboratory Manager of Ardaman's Baton Rouge laboratory which is under the direction of a Registered Professional Engineer. She supervises and manages operations of our AMRL Certified, DEQ Accredited, and USACE-validated laboratory and performs and oversees laboratory testing assignments, organizes, and schedules testing, trains and develops technicians, and supervises five laboratory technicians. Ms. Litt is experienced conducting soil mechanics laboratory testing in accordance with appropriate AASHTO and LADOTD testing protocol, which includes Soil Classification, Atterberg Limits, Grain Size Analysis, Gradation Testing, Organic Content, Hydrometer Analysis, Moisture Content, Consolidation Testing, Hydraulic Conductivity, pH, Resistivity, Strength Testing (Unconfined, Unconsolidated-Undrained Triaxial, Consolidated-Undrained Triaxial), Direct Shear, Specific Gravity, and Permeability of Granular Soils.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |                                                        |                                                      |    |
| Experience Dates (mm/yy-mm/yy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |                                                        |                                                      |    |
| 03/25-Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>H.016313.5, H.016314.5, H.016315.5, H.016316.5, H.016317.5, H.016318.5, H.016319.5, H.016320.5, H.016325.5 / CULVERT REPLACEMENTS: Evangeline, Jackson, Rapides, Richland, St. Landry, Vernon, and Winn Parishes, LA</b><br><b>Laboratory Manager.</b> Oversaw the completion of a comprehensive laboratory testing program for 100 deep soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Organic Content, Particle Size Analysis, Hydrometer, Unit Weight of Undisturbed Samples, and UU Strength Tests in accordance with LADOTD guidelines. Ms. Litt entered the laboratory test results into gINT in order to produce the LADOTD soil boring logs. |                    |                                                        |                                                      |    |
| 08/24-Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>H.015568.5, H.015569 / LA 44 Roundabouts &amp; Widening: Ascension Parish, LA</b><br><b>Laboratory Manager.</b> Oversaw the completion of a comprehensive laboratory testing program for 10 deep and 14 shallow soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests in acc                                                                                                                                                                                                                                                                |                    |                                                        |                                                      |    |
| 07/23-Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>H.015489, H.015490, H.015491, H.015492 / IJA: Off-System Bridges: Allen, Beauregard, and Calcasieu Parishes, LA</b><br><b>Laboratory Manager.</b> Oversaw the completion of a comprehensive laboratory testing program for 10 deep soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests in accordance with LADOTD guidelines. Ms. Litt entered the laboratory test results into gINT to produce the LADOTD soil boring logs.                                                                                                                                |                    |                                                        |                                                      |    |
| 07/23-Ongoing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>H.013284 / MRB S GBR LA 1 to LA 30 Connector: West Baton Rouge, Iberville, Ascension, East Baton Rouge Parishes, LA</b><br><b>Laboratory Manager.</b> Oversaw the completion of a comprehensive laboratory testing program for 18 deep soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests in accordance with LADOTD guidelines. Ms. Litt reviewed the consolidation test results and entered the laboratory test results into gINT in order to produce the LADOTD soil boring logs                                                       |                    |                                                        |                                                      |    |



# Roadway Lighting Team

Section 16

## 16. STAFF EXPERIENCE:

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|                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Firm Employed By:</b>  <b>BUCHART HORN</b><br>ENGINEERS • ARCHITECTS • PLANNERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            |                                                                                                                   |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Sherry Wolfe, PE           |                                                                                                                   | Years of Relevant Experience with this Employer      | 19 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Senior Electrical Engineer |                                                                                                                   | Years of Relevant Experience with Other(s) Employers | 25 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Degree(s)/Years/Specialization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            | Masters of Professional Services / 2013 / Engineering Management<br>BS / 1987 / Electrical Engineering Technology |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Active Registration Number/State/Expiration Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            | PE#38478 / LA / 03.30.2028                                                                                        |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Year Registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1998                       | Discipline                                                                                                        | Electrical and Computer Engineer                     |    |
| Contract Role(s)/Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            | Discipline Lead - Roadway Lighting                                                                                |                                                      |    |
| Sherry has extensive experience in industrial and facilities electrical engineering including highway and facility lighting design, medium and low voltage power distribution and electrical service design, emergency generation, co-generation design, instrumentation, process control, special systems design, load flow, short-circuit coordination, and ArcFlash studies, project management, field commissioning, construction support services and management of personnel. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                                                                                                                   |                                                      |    |
| Experience Dates<br>(mm/yy-mm/yy)                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                                                                   |                                                      |    |
| 09/20 - 10/24<br>SECTION 17 PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>US 165 Roadway Lighting, LADOTD, Richland, LA</b><br><b>Project Manager.</b> Buchart Horn (BH) served as prime consultant providing full electrical engineering and project management services for the design and construction support of a new four-mile roadway lighting system along US 165 in Ouachita Parish, Louisiana. BH led surveying, subsurface utility engineering, and coordination with LADOTD, local agencies, Entergy, and utilities to deliver complete design plans, specifications, cost estimates, photometric analyses, and arc-flash hazard evaluations in compliance with LADOTD and NFPA standards. During construction, BH provided Construction Related Engineering Services (CRES), including participation in pre-construction meetings, review of shop drawings and operation manuals, response to RFIs, field inspections, and final arc-flash calculations based on installed equipment. LADOTD commended BH for its strong project management, timely deliverables, and technical responsiveness, particularly in quickly resolving a major conflict with an undocumented DOTD fiber optic line to keep construction on schedule and in compliance with safety requirements. |                            |                                                                                                                   |                                                      |    |
| 11/15 - 02/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Power Boulevard Median Electrical Improvements, GEC, Inc., Kenner, LA</b><br><b>Electrical Engineer.</b> The project entailed the installation of a shared use path, public artwork, landscaping, lighting improvements, a new pedestrian bridge, and pedestrian crosswalks along a one mile stretch of Power Boulevard in Kenner, Louisiana. BH was responsible for performing the Traffic Analysis for the proposed crosswalk locations, as well as a Photometric Analysis Report and Design Plan lighting for both the shared use path and the pedestrian bridge. A construction cost estimate was prepared and BH also provided construction administration services including stakeholder coordination. The project utilized state funding, therefore BH was required to complete the analysis and design per LADOTD standards and guidelines in order to receive their review and approval.                                                                                                                                                                                                                                                                                                             |                            |                                                                                                                   |                                                      |    |
| 12/20 - 01/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>I-110 Lighting Design from North Street to Plank Road, LADOTD, Baton Rouge, LA</b><br><b>Project Manager.</b> BH provided surveying, roadway illumination analysis and report, electrical engineering design, design plan preparation, calculations, construction cost estimates, specifications and special provisions for a complete lighting system along I-110 from North Street to Plank Road, adjacent to LADOTD headquarters per LADOTD's new roadway design. The design included various levels for the roadway, associated on and off ramps, overpasses, and access roads, and interfaced with the remaining existing lighting beyond the north and south ends of the project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                                                                                                                   |                                                      |    |

## Sherry Wolfe resume continued

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| 12/19 - 03/21   | <b>LA 1/LA 415 Connector Study, LADOTD, Port Allen, LA</b><br><b>Project Manager.</b> BH is performing a preliminary study to evaluate roadway lighting for a new roadway connecting I-10 to LA 1 in West Baton Rouge Parish. The study will also evaluate navigational lighting for the new bridge over the intercoastal waterway. Following the preliminary study, final design will be performed by supplemental agreement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 04/17 - 05/23   | <b>New Lighting Design and Construction Services, I-55 at LA 22 Interchange, LADOTD, Ponchatoula, LA</b><br><b>Project Manager.</b> BH served as prime consultant to LADOTD under a statewide electrical retainer contract, providing full design and project management services for a new roadway lighting system at the I-55/LA 22 interchange in Tangipahoa Parish, Louisiana. BH developed plans, specifications, and construction estimates for the complete lighting system, performed photometric analyses for LED luminaires, and prepared arc-flash, fault current, and voltage drop calculations to ensure safety and reliability. The team managed phased submittals at 30% through 100% design, coordinated with LADOTD and utilities, and provided bidding support, RFI responses, and construction phase services including submittal reviews, site inspections, and final punch list development. The completed system enhanced interchange safety and incorporated modern smart controls for remote monitoring and operation.                      |
| 04/20 - 12/23   | <b>Medical Center Boulevard Lighting, Jefferson Parish, Marrero, LA</b><br><b>Project Engineer.</b> Medical Center Blvd is a .37 mile urban four lane divided highway with a drainage canal located in its median, connecting the Westbank Expressway to Wichers Drive and providing access to the West Jefferson Medical Center/LCMC Health, Wynhoven Health Care Center, and multiple retail centers. Existing lighting along the highway was scarce with intermittent pole lights, creating dangerous night time conditions for vehicle and pedestrian traffic. Jefferson Parish desired to have appropriate lighting along the roadway to improve both safety and aesthetics and selected BH for the project. After a thorough analysis, BH designed the new lighting system which included 42 lights to Jefferson Parish specifications. Decorative light poles and luminaries were used to properly illuminate the roadway, thereby meeting the criteria established by Jefferson Parish and adding to the beautification of this heavily-travelled corridor. |
| 10/25 - Ongoing | <b>Roadway Lighting Design, Natchitoches Safe Streets Revitalization, Gresham Smith, City of Natchitoches, LA</b><br><b>Electrical Engineer.</b> BH is serving as a sub-consultant to Gresham Smith by providing roadway lighting design services as part of a comprehensive 18-mile Safe Streets Revitalization initiative to enhance pedestrian, bicycle, and vehicular safety throughout the City of Natchitoches. The overall project includes new sidewalks, bike lanes, shared-use paths, drainage improvements, and pavement rehabilitation along major corridors and collector streets within the City. BH's scope includes photometric analysis, electrical design, and layout of energy-efficient LED lighting systems to improve visibility, uniformity, and corridor safety in accordance with LADOTD and AASHTO standards.                                                                                                                                                                                                                             |
| 08/19 - Ongoing | <b>Electrical Services Retainer Contract, LADOTD, Statewide, LA</b><br><b>Engineer of Record and Project Manager.</b> Statewide electrical retainer contract to be assigned via task orders for all stages of project delivery. Assignments include electrical studies for transportation projects and electrical design plans for transportation facilities including lighting, moveable bridges and pump stations, as well as surveys, construction administration, shop drawing reviews, and preparation of as-built plans. Electrical Engineer responsible for leading the Design Team and Project Managers with the development of task scopes and fee estimates.                                                                                                                                                                                                                                                                                                                                                                                              |

## 16. STAFF EXPERIENCE:

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Steven Moore, PE           |                            | Years of Relevant Experience with this Employer      | 13 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Senior Electrical Engineer |                            | Years of Relevant Experience with Other(s) Employers | 33 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Degree(s)/Years/Specialization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            | N/A, Engineering Studies   |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Active Registration Number/State/Expiration Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | PE#25383 / LA / 09.30.2027 |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Year Registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2004                       | Discipline                 | Civil Engineering                                    |    |
| Contract Role(s)/Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            | Roadway Lighting           |                                                      |    |
| Steven has diverse experience in the field of electrical engineering. He is responsible for managing projects and designs. His abilities include all phases of electrical engineering from conceptual design to the development of construction documents and construction administration. Mr. Moore's experience includes the design of electrical, telecommunications, control and instrumentation systems, cost estimating, system analysis, energy studies, and feasibility/constructability studies. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                            |                                                      |    |
| Experience Dates (mm/yy-mm/yy)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                            |                                                      |    |
| 12/20 - 01/24<br>SECTION 17 PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>I-110 Lighting Design from North Street to Plank Road, LADOTD, Baton Rouge, LA</b><br><b>Project Engineer.</b> BH provided surveying, roadway illumination analysis and report, electrical engineering design, design plan preparation, calculations, construction cost estimates, specifications and special provisions for a complete lighting system along I-110 from North Street to Plank Road, adjacent to LADOTD headquarters per LADOTD's new roadway design. The design included various levels for the roadway, associated on and off ramps, overpasses, and access roads, and interfaced with the remaining existing lighting beyond the north and south ends of the project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                                                      |    |
| 09/20 - 10/24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>US 165 Roadway Lighting, LADOTD, Richland, LA</b><br><b>Electrical Engineer.</b> BH served as prime consultant providing full electrical engineering and project management services for the design and construction support of a new four-mile roadway lighting system along US 165 in Ouachita Parish, Louisiana. BH led surveying, subsurface utility engineering, and coordination with LADOTD, local agencies, Entergy, and utilities to deliver complete design plans, specifications, cost estimates, photometric analyses, and arc-flash hazard evaluations in compliance with LADOTD and NFPA standards. During construction, BH provided Construction Related Engineering Services (CRES), including participation in pre-construction meetings, review of shop drawings and operation manuals, response to RFIs, field inspections, and final arc-flash calculations based on installed equipment. LADOTD commended BH for its strong project management, timely deliverables, and technical responsiveness, particularly in quickly resolving a major conflict with an undocumented DOTD fiber optic line to keep construction on schedule and in compliance with safety requirements. |                            |                            |                                                      |    |
| 04/17 - 05/23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>New Lighting Design and Construction Services, I-55 at LA 22 Interchange, LADOTD, Ponchatoula, LA</b><br><b>Project Engineer.</b> BH served as prime consultant to LADOTD under a statewide electrical retainer contract, providing full design and project management services for a new roadway lighting system at the I-55/LA 22 interchange in Tangipahoa Parish, Louisiana. BH developed plans, specifications, and construction estimates for the complete lighting system, performed photometric analyses for LED luminaires, and prepared arc-flash, fault current, and voltage drop calculations to ensure safety and reliability. The team managed phased submittals at 30% through 100% design, coordinated with LADOTD and utilities, and provided bidding support, RFI responses, and construction phase services including submittal reviews, site inspections, and final punch list development. The completed system enhanced interchange safety and incorporated modern smart controls for remote monitoring and operation.                                                                                                                                                       |                            |                            |                                                      |    |

## Steven Moore resume continued

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| 12/19 - 03/21   | <b>LA 1/LA 415 Connector Study, LADOTD, Port Allen, LA</b><br><b>Electrical Engineer.</b> BH performed a preliminary study to evaluate roadway lighting for a new roadway connecting I-10 to LA 1 in West Baton Rouge Parish. The study also evaluated navigational lighting for the new bridge over the intercoastal waterway. Following the preliminary study, final design will be performed by supplemental agreement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 10/17 - 09/22   | <b>New Roundabout, Parish Road 929 at Parker Road, Ascension Parish, Prairieville, LA</b><br><b>Electrical Engineer.</b> BH led the planning, design, and construction administration of the new roundabout at Highway 929 and Parker Road in Ascension Parish, Louisiana, a publicly funded Local Road Safety Program project completed in 2024. Beginning with the Stage 0 Feasibility Study in 2010, BH advanced the project through preliminary and final design, addressing safety concerns from documented crashes and projected traffic growth. The roundabout design, developed in accordance with LADOTD and FHWA standards, incorporated roadway widening, drainage improvements, splitter islands, pedestrian accommodations, lighting, and utility coordination. Through construction-phase services under the Move Ascension program, BH ensured successful delivery of this safety-focused project, which now reduces conflict points, calms vehicle speeds, and enhances traffic operations for the community.                                          |
| 04/20 - 12/23   | <b>Medical Center Boulevard Lighting, Jefferson Parish, Marrero, LA</b><br><b>Electrical Engineer.</b> Medical Center Blvd is a .37 mile urban four lane divided highway with a drainage canal located in its median, connecting the Westbank Expressway to Wichers Drive and providing access to the West Jefferson Medical Center/LCMC Health, Wynhoven Health Care Center, and multiple retail centers. Existing lighting along the highway was scarce with intermittent pole lights, creating dangerous night time conditions for vehicle and pedestrian traffic. Jefferson Parish desired to have appropriate lighting along the roadway to improve both safety and aesthetics and selected BH for the project. After a thorough analysis, BH designed the new lighting system which included 42 lights to Jefferson Parish specifications. Decorative light poles and luminaries were used to properly illuminate the roadway, thereby meeting the criteria established by Jefferson Parish and adding to the beautification of this heavily-travelled corridor. |
| 05/22 - Ongoing | <b>Lighting Design for New LA 544 Interchange and I-20 Overpass, LADOTD, Ruston, LA</b><br><b>Electrical Engineer.</b> BH provided roadway lighting design services for the proposed LA 544 roundabout diamond interchange over I-20 in Ruston, Louisiana under LADOTD's Statewide Electrical Services IDIQ contract. BH's scope included surveying, roadway illumination analysis, photometric modeling, preliminary layout plans, specifications, and cost estimates covering all ramps, roundabouts, and connecting roadway segments. The design incorporated LADOTD standards and IESNA guidelines to ensure appropriate visibility and uniformity, and BH successfully completed and submitted all deliverables, positioning the lighting system for seamless integration into the future constructed interchange.                                                                                                                                                                                                                                                |
| 10/25 - Ongoing | <b>Roadway Lighting Design, Natchitoches Safe Streets Revitalization, Gresham Smith, City of Natchitoches, LA</b><br><b>Electrical Engineer.</b> BH is serving as a sub-consultant to Gresham Smith by providing roadway lighting design services as part of a comprehensive 18-mile Safe Streets Revitalization initiative to enhance pedestrian, bicycle, and vehicular safety throughout the City of Natchitoches. The overall project includes new sidewalks, bike lanes, shared-use paths, drainage improvements, and pavement rehabilitation along major corridors and collector streets within the City. BH's scope includes photometric analysis, electrical design, and layout of energy-efficient LED lighting systems to improve visibility, uniformity, and corridor safety in accordance with LADOTD and AASHTO standards.                                                                                                                                                                                                                                |
| 08/19 - Ongoing | <b>Electrical Services Retainer Contract, LADOTD, Statewide, LA</b><br><b>Electrical Engineer.</b> Statewide electrical retainer contract to be assigned via task orders for all stages of project delivery. Assignments include electrical studies for transportation projects and electrical design plans for transportation facilities including lighting, moveable bridges and pump stations, as well as surveys, construction administration, shop drawing reviews, and preparation of asbuilt plans.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## 16. STAFF EXPERIENCE:

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|                                                                                                                                                                                                                                                                                                                                                              | <b>Firm Employed By:</b>  <b>BUCHART HORN</b><br>ENGINEERS • ARCHITECTS • PLANNERS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                               |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Joseph Mingo, PE |                               | Years of Relevant Experience with this Employer      | 12 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Civil Engineer   |                               | Years of Relevant Experience with Other(s) Employers | 0  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | Degree(s)/Years/Specialization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                  | BS / 2014 / Civil Engineering |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | Active Registration Number/State/Expiration Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  | PE#43700 / LA / 03.30.2028    |                                                      |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | Year Registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2019             | Discipline                    | Civil Engineering                                    |    |
| Contract Role(s)/Brief Description of Responsibilities                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  | Roadway Lighting              |                                                      |    |
| <p>Joseph has more than 12 years of experience working on projects related to road design. He has worked on roadway rehabilitation, widening, roundabout, and lighting design projects. His primary responsibilities include design development, design plan preparation and detailing, design quantity calculations, and cost estimation. These duties require extensive knowledge and use of MicroStation and InRoads design software.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |                               |                                                      |    |
| Experience Dates (mm/yy-mm/yy)                                                                                                                                                                                                                                                                                                                                                                                                               | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                               |                                                      |    |
| 09/20 - 10/24<br><b>SECTION 17 PROJECT</b>                                                                                                                                                                                                                                                                                                                                                                                                   | <b>US 165 Roadway Lighting, LADOTD, Richland, LA</b><br><b>Project Engineer.</b> BH served as prime consultant providing full electrical engineering and project management services for the design and construction support of a new four-mile roadway lighting system along US 165 in Ouachita Parish, Louisiana. BH led surveying, subsurface utility engineering, and coordination with LADOTD, local agencies, Entergy, and utilities to deliver complete design plans, specifications, cost estimates, photometric analyses, and arc-flash hazard evaluations in compliance with LADOTD and NFPA standards. During construction, BH provided Construction Related Engineering Services (CRES), including participation in pre-construction meetings, review of shop drawings and operation manuals, response to RFIs, field inspections, and final arc-flash calculations based on installed equipment. LADOTD commended BH for its strong project management, timely deliverables, and technical responsiveness, particularly in quickly resolving a major conflict with an undocumented DOTD fiber optic line to keep construction on schedule and in compliance with safety requirements. |                  |                               |                                                      |    |
| 12/19 - 06/24                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>MacArthur Interchange Completion PH. II, LADOTD, Jefferson Parish, LA</b><br><b>Project Engineer.</b> BH served as prime consultant to the LADOTD for the MacArthur Interchange Completion Phase II, providing roadway illumination analysis, electrical engineering design, plan preparation, cost estimates, specifications, and special provisions for a complete lighting system along the Westbank Expressway (US 90) in Harvey, Louisiana. The project required careful coordination within a constrained environment of existing equipment, utilities, and adjacent facilities, including consideration of FAA heliport clearance requirements. BH successfully addressed these challenges through effective communication, precise calculations, and diligent QA/QC procedures, delivering high-quality design documents and earning favorable client evaluations for technical accuracy, responsiveness, and commitment to project goals.                                                                                                                                                                                                                                              |                  |                               |                                                      |    |
| 12/20 - 01/24                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>I-110 Lighting Design from North Street to Plank Road, LADOTD, Baton Rouge, LA</b><br><b>Project Engineer.</b> BH provided surveying, roadway illumination analysis and report, electrical engineering design, design plan preparation, calculations, construction cost estimates, specifications and special provisions for a complete lighting system along I-110 from North Street to Plank Road, adjacent to LADOTD headquarters per LADOTD's new roadway design. The design included various levels for the roadway, associated on and off ramps, overpasses, and access roads, and interfaced with the remaining existing lighting beyond the north and south ends of the project.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |                               |                                                      |    |

## Joseph Mingo resume continued

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| 04/17 - 05/23   | <b>New Lighting Design and Construction Services, I-55 at LA 22 Interchange, LADOTD, Ponchatoula, LA</b><br><b>Project Engineer.</b> BH served as prime consultant to LADOTD under a statewide electrical retainer contract, providing full design and project management services for a new roadway lighting system at the I-55/LA 22 interchange in Tangipahoa Parish, Louisiana. BH developed plans, specifications, and construction estimates for the complete lighting system, performed photometric analyses for LED luminaires, and prepared arc-flash, fault current, and voltage drop calculations to ensure safety and reliability. The team managed phased submittals at 30% through 100% design, coordinated with LADOTD and utilities, and provided bidding support, RFI responses, and construction phase services including submittal reviews, site inspections, and final punch list development. The completed system enhanced interchange safety and incorporated modern smart controls for remote monitoring and operation. |
| 10/17 - 09/22   | <b>New Roundabout, Parish Road 929 at Parker Road, Ascension Parish, Prairieville, LA</b><br><b>Project Engineer.</b> BH led the planning, design, and construction administration of the new roundabout at Highway 929 and Parker Road in Ascension Parish, Louisiana, a publicly funded Local Road Safety Program project completed in 2024. Beginning with the Stage 0 Feasibility Study in 2010, BH advanced the project through preliminary and final design, addressing safety concerns from documented crashes and projected traffic growth. The roundabout design, developed in accordance with LADOTD and FHWA standards, incorporated roadway widening, drainage improvements, splitter islands, pedestrian accommodations, lighting, and utility coordination. Through construction-phase services under the Move Ascension program, BH ensured successful delivery of this safety-focused project, which now reduces conflict points, calms vehicle speeds, and enhances traffic operations for the community.                      |
| 10/25 - Ongoing | <b>Roadway Lighting Design, Natchitoches Safe Streets Revitalization, Gresham Smith, City of Natchitoches, LA</b><br><b>Project Engineer.</b> BH is serving as a sub-consultant to Gresham Smith by providing roadway lighting design services as part of a comprehensive 18-mile Safe Streets Revitalization initiative to enhance pedestrian, bicycle, and vehicular safety throughout the City of Natchitoches. The overall project includes new sidewalks, bike lanes, shared-use paths, drainage improvements, and pavement rehabilitation along major corridors and collector streets within the City. BH's scope includes photometric analysis, electrical design, and layout of energy-efficient LED lighting systems to improve visibility, uniformity, and corridor safety in accordance with LADOTD and AASHTO standards.                                                                                                                                                                                                            |
| 05/22 - Ongoing | <b>Lighting Design for New LA 544 Interchange and I-20 Overpass, LADOTD, Ruston, LA</b><br><b>Project Manager.</b> BH provided roadway lighting design services for the proposed LA 544 roundabout diamond interchange over I-20 in Ruston, Louisiana under LADOTD's Statewide Electrical Services IDIQ contract. BH's scope included surveying, roadway illumination analysis, photometric modeling, preliminary layout plans, specifications, and cost estimates covering all ramps, roundabouts, and connecting roadway segments. The design incorporated LADOTD standards and IESNA guidelines to ensure appropriate visibility and uniformity, and BH successfully completed and submitted all deliverables, positioning the lighting system for seamless integration into the future constructed interchange.                                                                                                                                                                                                                             |
| 07/18 - 05/25   | <b>Braud Road @ Germany Road Roundabout, Prairieville, LA</b><br><b>Project Engineer.</b> BH provided electrical lighting design services for a roundabout at the intersection of Braud Road and Germany Road. The design includes plans, specifications and special provisions, construction estimates, illumination analysis, and engineering calculations for a complete lighting system for the intersection. Engineering reviews of the roundabout design were also included. BH provided services as a subconsultant to T. Baker Smith, LLC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 08/19 - Ongoing | <b>Electrical Services Retainer Contract, LADOTD, Statewide, LA</b><br><b>Project Engineer.</b> Statewide electrical retainer contract to be assigned via task orders for all stages of project delivery. Assignments include electrical studies for transportation projects and electrical design plans for transportation facilities including lighting, moveable bridges and pump stations, as well as surveys, construction administration, shop drawing reviews, and preparation of as-built plans.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



# Landscaping Team

Section 16

## 16. STAFF EXPERIENCE:

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|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------|------------------------------------------------------|----|
|  | <b>Firm Employed By:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                      |                                                      |    |
|                                                                                  | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Cassie Nichols, PLA, ALSA                                            | Years of Relevant Experience with this Employer      | 1  |
|                                                                                  | Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | Landscape Architect                                                  | Years of Relevant Experience with Other(s) Employers | 13 |
|                                                                                  | Degree(s)/Years/Specialization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | MLA / 2023 / Civil Engineering   BLA / 2007 / Landscape Architecture |                                                      |    |
|                                                                                  | Active Registration Number/State/Expiration Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | PE#25383 / LA / 09.30.2027                                           |                                                      |    |
|                                                                                  | Year Registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Discipline                                                           | Landscape Architect                                  |    |
| Contract Role(s)/Brief Description of Responsibilities                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Landscape Architecture                                               |                                                      |    |
| Experience Dates (mm/yy-mm/yy)                                                   | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                      |                                                      |    |
| 06/13 - 08/16                                                                    | <b>East End Bridge, Louisville, KY (Prior to joining Alta)</b><br>The East End Bridge in Jefferson County, Kentucky, connects Louisville with Southern Indiana by extending I-265 across the Ohio River. As part of this major infrastructure project, two approach tunnels were constructed to integrate the highway with the surrounding landscape. Cassie led the landscape architecture design and construction documentation for the Kentucky portion of the project, specifying more than 1,200 native trees representing over 50 species. Her work also included the design of the Lewis and Clark Greenway trailhead and a series of sculpted landforms planted with native grasses and perennial species, creating a resilient and visually cohesive landscape that complements the region's natural character.                                                                                                          |  |                                                                      |                                                      |    |
| 10/19 - 8/22                                                                     | <b>Bowman Field Safety Project, Louisville, KY (Prior to joining Alta)</b><br>The Bowman Field Safety Project improved the landscape surrounding the historic airport by replacing aging and incompatible vegetation with trees and plantings that meet Federal Aviation Administration (FAA) airspace clearance requirements. The design preserved the character of the airport, adjacent neighborhoods, and Seneca Golf Course, while enhancing safety, increasing landscape resilience, and creating a sustainable planting palette appropriate for an active aviation environment. Cassie led the landscape architecture design and construction documentation, developing a long-term reforestation strategy that restored tree canopy without penetrating protected airspace. The project balanced aviation safety, environmental stewardship, and the visual quality of one of Louisville's most iconic public landscapes. |  |                                                                      |                                                      |    |
| 03/26 - Ongoing                                                                  | <b>Selma to Montgomery National Historic Trail Phase 1 Design</b><br>Cassie serves as the landscape architect for the Phase 1 design and construction documentation of the Selma to Montgomery National Historic Trail, developing context-sensitive site improvements that honor the trail's significance in the Civil Rights Movement. She leads the integration of native planting design, streetscape enhancements, and interpretive landscape elements to strengthen the visitor experience while reflecting the region's historic character. As the landscape architect, she collaborates with an interdisciplinary team to create resilient, accessible public spaces that balance cultural storytelling with long-term sustainability. The design reinforces the trail as both a nationally significant historic resource and a vibrant community asset.                                                                  |  |                                                                      |                                                      |    |
| 09/23 - 10/25                                                                    | <b>Harbor Park Trail Alignment Norfolk, VA (Prior to joining Alta)</b><br>Cassie managed the landscape design, site coordination, and trail alignment for the Harbor Park Trail project in collaboration with the U.S. Army Corps of Engineers and the Elizabeth River Trail. As part of a Coastal Storm Risk Management enhancement project, the trail extends the Elizabeth River Trail network along a proposed USACE floodwall, creating a resilient waterfront landscape that provides river views while protecting the community from high-tide flooding and sea level rise. The project focused on integrating the trail corridor with the surrounding waterfront environment through thoughtful planting, site design, and connections to adjacent public spaces.                                                                                                                                                         |  |                                                                      |                                                      |    |

## 16. STAFF EXPERIENCE:

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|  | <b>Firm Employed By:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |                                                                |                                                      |    |
|                                                                                   | Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     | Chelsea Cole                                                   | Years of Relevant Experience with this Employer      | 6  |
|                                                                                   | Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     | Landscape Architect                                            | Years of Relevant Experience with Other(s) Employers | 11 |
|                                                                                   | Degree(s)/Years/Specialization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     | MLA / 2017 / Landscape Architecture   BA / 2014 / Architecture |                                                      |    |
|                                                                                   | Active Registration Number/State/Expiration Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     | N/A                                                            |                                                      |    |
|                                                                                   | Year Registered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N/A | Discipline                                                     | N/A                                                  |    |
| Contract Role(s)/Brief Description of Responsibilities                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     | Landscape Architecture                                         |                                                      |    |
| Experience Dates (mm/yy-mm/yy)                                                    | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                                |                                                      |    |
| 12/19 - 06/26<br>SECTION 17 PROJECT                                               | <b>Atlanta Beltline Westside Trail Segment 4, Atlanta, GA</b><br>Atlanta BeltLine is one of the largest, most wide-ranging urban redevelopment programs in the US. All segments include the consideration of a parallel light rail transit envelope, public art and park space and environmentally resilient materials. Alta provided environmental services, landscape architecture, engineering, and construction services including administration, management, and bid procurement. Chelsea supported development of recommendations and visualizations. She also assisted with developing the planting plans for the project. |     |                                                                |                                                      |    |
| 05/20 - Ongoing                                                                   | <b>10th Street Bridge Multi-Modal Connection, Atlanta, GA</b><br>Alta developed bicycle and pedestrian facility improvements along the 10th Street and Williams Street Corridors. These improvements included buffered two-way bike facilities, improved sidewalks, and landscape design. Chelsea assisted with the landscape plans and ornamental fencing design along the 10th Street Bridge.                                                                                                                                                                                                                                    |     |                                                                |                                                      |    |
| 03/24 - 12/25                                                                     | <b>Selma to Montgomery National Historic Trail Feasibility Study, AL</b><br>Alta collaborated with the City of Montgomery to identify improvements that make travel safer and create economic opportunities for residents of West Montgomery. This project also explored ways to commemorate the Selma to Montgomery March through creative storytelling, placemaking, wayfinding, and trail design. Chelsea assisted with community engagement, 10% corridor design development, graphic support, and document development for the project.                                                                                       |     |                                                                |                                                      |    |
| 03/26 - Ongoing                                                                   | <b>Selma to Montgomery National Historic Trail Phase 1 Design</b><br>Following the feasibility study, Alta is working with the City of Montgomery to develop 100% design plans for Oak Street and 30% for between Fred D. Gray Avenue and Mobile Street. Chelsea has led the preliminary concept design for the corridor and the placemaking areas as well as the planting design.                                                                                                                                                                                                                                                 |     |                                                                |                                                      |    |

## Section 17

### **I-220/I-20 Interchange Improvements & BAFB Access Design Build**

Bossier Parish  
H.003370

Waggoner Engineering, Inc.  
Lead Design Firm



## 17. FIRM EXPERIENCE:

|                                                                                                                     |                                                                                         |                                                               |                                                        |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------|
| <b>Firm Name:</b>  <b>WAGGONER</b> |                                                                                         |                                                               |                                                        |
| Project Name                                                                                                        | <b>I-10: LA 415 to Essen Lane on I-10 and I-12 CMAR</b>                                 | Past Performance Evaluation Category(ies)*                    | Road, Traffic, Other (Project Management), Other (SUE) |
|                                                                                                                     |                                                                                         | Firm Responsibility                                           | Subconsultant                                          |
| Project Number                                                                                                      | H.004100                                                                                | Owner's Name                                                  | LADOTD                                                 |
| Project Location                                                                                                    | East Baton Rouge & West Baton Rouge Parishes                                            | Owners Project Manager                                        | Nick Oliver, PE                                        |
| Owners Address, Phone, Email                                                                                        | 1201 Capital Access Road, Baton Rouge, LA 70802   225.379.1133   nicholas.oliver@la.gov |                                                               |                                                        |
| Services Commenced by this Firm (mm/yy)                                                                             | 10/20                                                                                   | Total Consultant Contract Cost (\$1,000's)                    | \$29,583                                               |
| Services Completed by this Firm (mm/yy)                                                                             | Ongoing                                                                                 | Cost of Consultant Services Provided by this Firm (\$1,000's) | \$4,170                                                |

### Team Members Involved:

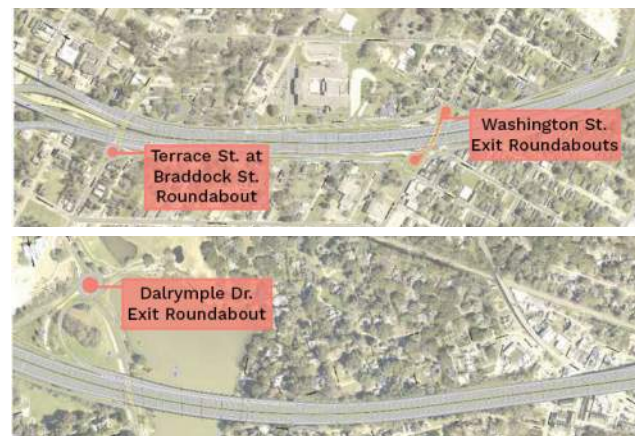
Robert Lear, Miles Williams, Bryan Harmon, Alex Farr, Joshua Renard, Kelsie Bankston, Charlotte Gremillion, Steve Gilliam, Andrew Windmann, Joshua Gonya

### 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 LADOTD electronic delivery standards. Traffic engineering responsibilities include providing geometrics and alternatives for the IMR, complex urban and freeway geometrics, construction phasing, and suggested sequence of construction/MOT.

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



Waggoner also prepared SUE and Utility Relocation plans to consolidate utilities into a major duct bank. The duct bank minimizes the need for multiple relocations during project phasing and is a significant cost savings.

Construction support includes shop drawings reviews, review and responses to RFIs, and review of contractor proposals made throughout the CMAR process. This project includes four roundabouts that are being designed in accordance with NCHRP 1043 Guidelines. Waggoner is providing structural design and detailing for the Eastbound substructure on the Perkins overpass replacement bridge. The project will provide new concrete bents founded on drilled shafts that include aesthetic features in conformance with context sensitive solutions promised to the public.

### Project Relevance:

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

## 17. FIRM EXPERIENCE:

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

### Team Members Involved:

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

### 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.

Waggoner Engineering, Inc.

The construction plans include the following:

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

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

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

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

### Project Relevance:

- ✓ Project Management
- ✓ Road Design
- ✓ Drainage Evaluation
- ✓ Utility Coordination
- ✓ Comment & Response Logs
- ✓ Electronic Plan Development
- ✓ Preliminary & Final Road Plans
- ✓ Topographic Survey
- ✓ Property Survey
- ✓ ROW Map
- ✓ Construction Support



## 17. FIRM EXPERIENCE:

**Firm Name:**  **WAGGONER**

|                                         |                                                      |                                                                                     |                 |                                           |
|-----------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------|
| Project Name                            | LA 73: US 61 (Airline Highway) - LA 426 (Essen Lane) | Past Performance Evaluation Category(ies)*                                          |                 | Road, Traffic, Other (Project Management) |
|                                         |                                                      | Firm Responsibility                                                                 | Prime           |                                           |
| Project Number                          | H.010652                                             | Owner's Name                                                                        | LADOTD          |                                           |
| Project Location                        | East Baton Rouge Parish, LA                          | Owners Project Manager                                                              | Ryan Felder, PE |                                           |
| Owners Address, Phone, Email            |                                                      | 1201 Capital Access Road, Baton Rouge, LA 70802   225.379.1366   ryan.felder@la.gov |                 |                                           |
| Services Commenced by this Firm (mm/yy) | 08/21                                                | Total Consultant Contract Cost (\$1,000's)                                          |                 | \$485.1                                   |
| Services Completed by this Firm (mm/yy) | 05/23                                                | Cost of Consultant Services Provided by this Firm (\$1,000's)                       |                 | \$383.2                                   |

### **Team Members Involved:**

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

### **Project Description:**

Waggoner was contracted by LADOTD to provide the engineering 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 quantities and cost estimates for the approximate 2.3-mile roadway.

Waggoner completed the final construction plans with a strong emphasis on developing a practical sequence of construction and maintenance of traffic plan to minimize impacts to the traveling public along this heavily traveled urban arterial. Construction was phased to maintain traffic operations while providing continuous access to adjacent commercial businesses, residential neighborhoods, side streets, and the I-12 interchange throughout each stage of construction. The sequencing also coordinated pavement replacement, curb and gutter reconstruction, sidewalk improvements, utility coordination, and signing modifications to reduce conflicts, maintain mobility, and provide a safe work zone for both motorists and pedestrians.



### **Plan Development**

- Road design
- Drainage evaluation
- Utility coordination
- MOT construction sequence
- Signing and striping



### **Project Relevance:**

- ✓ Project Management
- ✓ Road Design
- ✓ Utility Coordination
- ✓ Comment & Response Logs
- ✓ Electronic Plan Development
- ✓ Preliminary & Final Road Plans
- ✓ Construction Support

## 17. FIRM EXPERIENCE:

**Firm Name:**  **WAGGONER**

|                                         |                                                                                          |                                                               |                                                                       |
|-----------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------|
| Project Name                            | <b>LA 1088: Soult &amp; Trinity Roundabouts</b>                                          | Past Performance Evaluation Category(ies)*                    | Road, Traffic, Other (Public Involvement), Other (Project Management) |
|                                         |                                                                                          | Firm Responsibility                                           | Prime                                                                 |
| Project Number                          | H.010116                                                                                 | Owner's Name                                                  | LADOTD                                                                |
| Project Location                        | St. Tammany Parish                                                                       | Owners Project Manager                                        | Catherine Mastin                                                      |
| Owners Address, Phone, Email            | 1201 Capital Access Road, Baton Rouge, LA 70802   225.379.1302   catherine.mastin@la.gov |                                                               |                                                                       |
| Services Commenced by this Firm (mm/yy) | 08/22                                                                                    | Total Consultant Contract Cost (\$1,000's)                    | \$1260                                                                |
| Services Completed by this Firm (mm/yy) | Ongoing                                                                                  | Cost of Consultant Services Provided by this Firm (\$1,000's) | \$972                                                                 |

### **Team Members Involved:**

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

### **Project Description:**

Waggoner is providing roadway engineering and related services for the replacement of the existing intersections at LA 1088 and Soult Street/Viola Street and LA 1088 and Trinity Drive with modern roundabout configurations for LADOTD. The project includes development of a four-leg spiral roundabout at Soult Street/Viola Street and a single-lane three-leg roundabout at Trinity Drive to improve corridor safety, traffic operations, and multimodal connectivity along the LA 1088 corridor. Waggoner's responsibilities include roadway geometrics, roundabout layout development, profile design, typical sections, drainage coordination, signing and striping integration, and overall corridor design coordination.

The project also incorporates complete streets improvements, including a 14-foot multi-use path, while maintaining continuity with adjacent roadway projects and existing corridor infrastructure. Design efforts have focused on balancing operational improvements, constructability, access management, and right-of-way considerations within the constrained corridor environment. In addition to roadway design services, Waggoner coordinated and conducted a comprehensive public involvement effort for LADOTD associated with the LA 1088 corridor improvements. Waggoner planned and facilitated an open-house format public meeting in coordination with LADOTD, St. Tammany Parish, Stanley Consultants, and corridor stakeholders to communicate proposed project improvements, anticipated impacts, and traffic operations to the public.



Services included development of aerial exhibits, corridor mapping, typical sections, narrated presentations, public meeting handouts, stakeholder coordination, and public notifications in accordance with LADOTD requirements. Waggoner also coordinated meeting logistics, conducted agency and property owner outreach, prepared public meeting materials for LADOTD review, staffed the public meeting with knowledgeable project personnel, and documented all comments and responses received throughout the public comment period. Following the meeting, Waggoner prepared the official Public Meeting Record, including transcripts, exhibits, sign-in sheets, written comments, proof of publication, and response matrices to support LADOTD's project documentation and public involvement requirements.

### **Project Relevance:**

- ✓ Project Management
- ✓ Traffic Control Design
- ✓ PP/FP Roadway Design, Plan Development, Cost Estimate
- ✓ Hydraulic Analysis & Design
- ✓ Road Design During Environmental Process
- ✓ Technical Research & Guidance
- ✓ Construction Support
- ✓ Public Meeting Coordination and Facilitation

## 17. FIRM EXPERIENCE:

|                                                                                                                     |                                                                                      |                                                               |                  |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------|
| <b>Firm Name:</b>  <b>WAGGONER</b> |                                                                                      |                                                               |                  |
| Project Name                                                                                                        | <b>I-49 South: Ambassador Caffery &amp; US 190 Interchange</b>                       | Past Performance Evaluation Category(ies)*                    |                  |
|                                                                                                                     |                                                                                      | Firm Responsibility                                           | Subconsultant    |
| Project Number                                                                                                      | H.002868                                                                             | Owner's Name                                                  | LADOTD           |
| Project Location                                                                                                    | Lafayette Parish                                                                     | Owners Project Manager                                        | Ryan Morvant, PE |
| Owners Address, Phone, Email                                                                                        | 1201 Capital Access Road, Baton Rouge, LA 70802   225.379.1067   Ryan.Morvant@la.gov |                                                               |                  |
| Services Commenced by this Firm (mm/yy)                                                                             | 1/13                                                                                 | Total Consultant Contract Cost (\$1,000's)                    | Unknown          |
| Services Completed by this Firm (mm/yy)                                                                             | Ongoing                                                                              | Cost of Consultant Services Provided by this Firm (\$1,000's) | \$1,294.8        |

### **Team Members Involved:**

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

### **Project Description:**

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

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

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

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

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



### **Project Relevance:**

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

## 17. FIRM EXPERIENCE:

|                                                                                                     |                                                                                   |                                                               |                                          |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------|
| <b>Firm Name:</b>  |                                                                                   |                                                               |                                          |
| Project Name                                                                                        | <b>Stage 0 Feasibility Study - US 190/Fremaux Avenue Sidewalk Study</b>           | 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 Boulevard, New Orleans, LA 70124   504-483-8523   nhollings@norpc.org |                                                               |                                          |
| Services Commenced by this Firm (mm/yy)                                                             | 12/23                                                                             | Total Consultant Contract Cost (\$1,000's)                    | \$65                                     |
| Services Completed by this Firm (mm/yy)                                                             | 07/24                                                                             | Cost of Consultant Services Provided by this Firm (\$1,000's) | \$30                                     |

### **Team Members Involved:**

Kristen Farrington, Gustavo Clavijo, Cade Nelson, Brin Ferlito and Laurence Lambert

### **Project Description:**

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

### **Task 1 Data Collection**

- Vectura collected the following traffic data for 10 intersections:
- Seven-day (mainlines) and two-day (side streets) 24-hour tube counts with vehicle classification
- Seven-day pedestrian counts
- Turning movement counts for morning and evening peak periods
- 15-minute driveway counts
- Traffic signal warrants, radar speed studies and sight distance evaluation
- Developed growth rate methodology and AM and PM peak forecast traffic volumes using TransCAD data

### **Task 2 Traffic Study**

- This task included the following elements:
- Performed Synchro analyses for existing conditions
- Performed Synchro analyses for implementation and design years
- Developed draft traffic study report

### **Task 3 Safety Analyses**

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

### **Project Relevance:**

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

## 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:

Kristen Farrington, Gustavo Clavijo, Cade Nelson, Brin Ferlito and Laurence Lambert

### Project Description:

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

### Task 1 Data Collection

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

### Task 2 Traffic Study

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

### Task 3 Safety Analyses

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

### Project Relevance:

- ✓ Traffic Engineering & Design
- ✓ Pedestrian & Bicycle Safety
- ✓ Traffic Data Collection
- ✓ Synchro Capacity Analysis
- ✓ Crash & Safety Analysis
- ✓ Complete Streets & Access Management



## 17. FIRM EXPERIENCE:

|                                                                                                     |                                                                     |                                                                                   |                                          |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------|
| <b>Firm Name:</b>  |                                                                     |                                                                                   |                                          |
| Project Name                                                                                        | <b>South Range Road Safety and Operational Enhancements Stage 0</b> | Past Performance Evaluation Category(ies)*                                        |                                          |
|                                                                                                     |                                                                     | Firm Responsibility                                                               | Prime                                    |
| Project Number                                                                                      | T-1.24RR                                                            | Owner's Name                                                                      | New Orleans Regional Planning Commission |
| Project Location                                                                                    | Tangipahoa Parish, LA                                               | Owners Project Manager                                                            | Nelson Hollings                          |
| Owners Address, Phone, Email                                                                        |                                                                     | 10 Veterans Boulevard, New Orleans, LA 70124   504-483-8523   nhollings@norpc.org |                                          |
| Services Commenced by this Firm (mm/yy)                                                             | 12/23                                                               | Total Consultant Contract Cost (\$1,000's)                                        | \$55                                     |
| Services Completed by this Firm (mm/yy)                                                             | 07/24                                                               | Cost of Consultant Services Provided by this Firm (\$1,000's)                     | \$40                                     |

### **Team Members Involved:**

Kristen Farrington, Gustavo Clavijo, Cade Nelson, Brin Ferlito and Laurence Lambert

### **Project Description:**

The purpose of this study was to conduct a corridor analysis along this portion of Range Road in the Hammond area of Tangipahoa Parish. This study examined the specific operating conditions of the intersection of Old Covington Highway and Range Road, land uses and operations or nearby trip generating land uses, and to identify conceptual, feasible improvements at and adjacent to the intersection that would enhance the safety and operations of all roadway users of said corridor.

#### **Task 1 Data Collection**

- Vectura collected the following traffic data for 10 intersections:
- Seven-day (mainlines) and two-day (side streets) 24-hour tube counts with vehicle classification
- Seven-day pedestrian counts
- Turning movement counts for morning and evening peak periods
- 15-minute driveway counts
- Traffic signal warrants, radar speed studies and sight distance evaluation
- Developed growth rate methodology and AM and PM peak forecast traffic volumes using TransCAD data

#### **Task 2 Traffic Study**

- This task included the following elements:
- Performed Synchro analyses for existing conditions
- Performed Synchro analyses for implementation and design years
- Developed draft traffic study report

#### **Task 3 Safety Analyses**

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

### **Project Relevance:**

- ✓ Traffic Engineering & Design
- ✓ Corridor Operations Analysis
- ✓ Traffic Data Collection
- ✓ Synchro Capacity Analysis
- ✓ Crash & Safety Analysis
- ✓ Conceptual Roadway Improvements

## 17. FIRM EXPERIENCE:

**Firm Name:**  **Ardaman**  
& Associates, Inc.

|                                         |                                                   |                                                                                |               |         |
|-----------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------|---------------|---------|
| Project Name                            | IIJA Off System Bridges,<br>District 07           | Past Performance Evaluation Category(ies)*                                     |               | Geotech |
|                                         |                                                   | Firm Responsibility                                                            | Subconsultant |         |
| Project Number                          | SP NOs. H.015489, H.015490,<br>H.015491, H.015492 | Owner’s Name                                                                   | LADOTD        |         |
| Project Location                        | Allen, Beauregard, and Calcasieu<br>Parish, LA    | Owners Project Manager                                                         | Amanda Ranck  |         |
| Owners Address, Phone, Email            |                                                   | 1201 Capitol Access Road, Baton Rouge, LA   225.379.1338   Amanda.Ranck@la.gov |               |         |
| Services Commenced by this Firm (mm/yy) | 07/23                                             | Total Consultant Contract Cost (\$1,000’s)                                     |               | \$5,332 |
| Services Completed by this Firm (mm/yy) | 07/25                                             | Cost of Consultant Services Provided by this Firm (\$1,000’s)                  |               | \$180   |

### **Team Members Involved:**

Jessica Litt, Casey Floyd

### **Project Description:**

Ardaman & Associates, Inc. performed geotechnical investigations for multiple small two-lane bridges from 100-ft to 600-ft throughout the Lake Charles area as part of the IJA Off-System Bridge Program, District 07. These rural roadway crossings span a variety of local bayous, creeks, and drainage canals. The existing structures, which include older timber and concrete bridges, are being replaced to improve safety, reliability, and long-term performance.

Ardaman was retained by the LADOTD through a Civil Engineering Prime. The scope of services include:

- Geotechnical field exploration (field reconnaissance, utility location, mobilization/demobilization, GPS location/elevation); consisting of 10 borings to about 120 feet below existing ground surface or pavement surface.
- Geotechnical laboratory testing services.
- Geotechnical design and construction testing program recommendations.

In addition to the vast scope of field investigation that included deep borings and laboratory testing, the scope of services for this project also included pile foundation design, drivability, and settlement analyses to be provided in multiple geotechnical design reports.



### **Project Relevance:**

- ✓ Bridge Design
- ✓ Geotechnical Investigations
- ✓ Subsurface Exploration
- ✓ Geotechnical Laboratory Testing
- ✓ Pile Foundation Design
- ✓ Settlement & Drivability Analysis

## 17. FIRM EXPERIENCE:

**Firm Name:**  **Ardaman**  
& Associates, Inc.

|                                         |                                                          |                                                                                |               |         |
|-----------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------|---------------|---------|
| Project Name                            | I-12 to Bush - Route LA 3241<br>(LA 36-LA 435) Segment 2 | Past Performance Evaluation Category(ies)*                                     |               | Geotech |
|                                         |                                                          | Firm Responsibility                                                            | Subconsultant |         |
| Project Number                          | SP NO. H.004435                                          | Owner's Name                                                                   | LADOTD        |         |
| Project Location                        | St. Tammany Parish, LA                                   | Owners Project Manager                                                         | Chris Nickel  |         |
| Owners Address, Phone, Email            |                                                          | 1201 Capitol Access Road, Baton Rouge, LA   225.379.1100   Chris.Nickel@la.gov |               |         |
| Services Commenced by this Firm (mm/yy) | 04/14                                                    | Total Consultant Contract Cost (\$1,000's)                                     | \$3,197       |         |
| Services Completed by this Firm (mm/yy) | Ongoing                                                  | Cost of Consultant Services Provided by this Firm (\$1,000's)                  | \$460         |         |

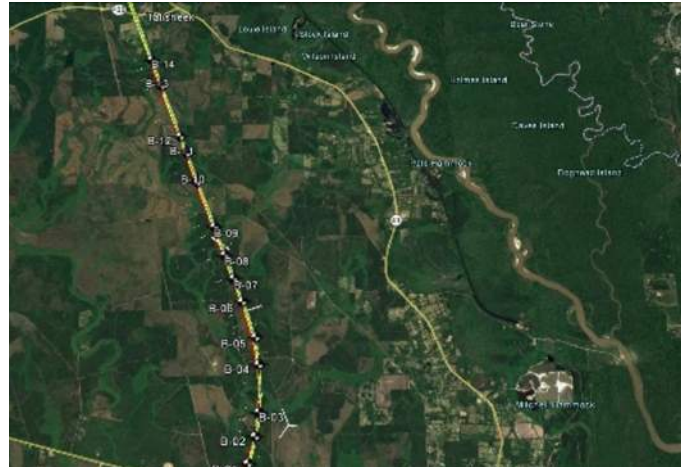
### **Team Members Involved:**

Robert Jewell, Mark Woodward, Jarmon King, Jessica Litt

### **Project Description:**

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

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



Soil boring logs were created in LADOTD format. Ardaman also provided geotechnical analyses and recommendations according to LRFD guidelines that included recommended pile capacities, culvert bearing capacities, embankment settlement analyses, and a pile data table.

### **Project Relevance:**

- ✓ Roadway & Hydraulics
- ✓ Bridge Design
- ✓ Geotechnical Investigations
- ✓ Soil Borings & Laboratory Testing
- ✓ Pile & Culvert Foundation Analysis
- ✓ Embankment Settlement Analysis

## 17. FIRM EXPERIENCE:

|                                                                                                     |                                                                                           |                                                                                   |                |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------|
| <b>Firm Name:</b>  |                                                                                           |                                                                                   |                |
| Project Name                                                                                        | <b>Rural Bridges Phase I</b>                                                              | Past Performance Evaluation Category(ies)*                                        |                |
|                                                                                                     |                                                                                           | Firm Responsibility                                                               | Subconsultant  |
| Project Number                                                                                      | 700-29-0112, 700-29-0130<br>H.013948, H.013985, H.013942,<br>H.013979, H.013987, H.013988 | Owner's Name                                                                      | LADOTD         |
| Project Location                                                                                    | Avoyelles and Claiborne Parishes, LA                                                      | Owners Project Manager                                                            | Valerie Torres |
| Owners Address, Phone, Email                                                                        |                                                                                           | 1201 Capitol Access Road, Baton Rouge, LA   225.379.1100   Valerie.Tourres@la.gov |                |
| Services Commenced by this Firm (mm/yy)                                                             | 03/21                                                                                     | Total Consultant Contract Cost (\$1,000's)                                        | \$2,500        |
| Services Completed by this Firm (mm/yy)                                                             | Ongoing                                                                                   | Cost of Consultant Services Provided by this Firm (\$1,000's)                     | \$676          |

### **Team Members Involved:**

Megan Bourgeois Mark Woodward, Jarmon King

### **Project Description:**

This project consisted of the replacement of multiple small two lane rural bridges throughout Central and North Louisiana which generally ranged in length from 100-400 feet, mainly over small rivers and creeks.

Ardaman was retained by the LADOTD at the beginning of the project in 2021 and the project is currently ongoing. The scope of services included:

- Geotechnical field exploration (field reconnaissance, utility location, mobilization/demobilization, GPS location and elevation); consisting of 50 borings to about 110 ft. below existing ground surface or pavement surface
- Geotechnical laboratory testing services
- Geotechnical design

In addition to the vast scope of field investigation that included deep borings and laboratory testing, the scope of services for this project also included pile foundation design, slope stability, drivability, and settlement analyses.



### **Project Relevance:**

- ✓ Bridge Design
- ✓ Geotechnical Investigations
- ✓ Deep Soil Borings
- ✓ Geotechnical Laboratory Testing
- ✓ Pile Foundation Design
- ✓ Slope Stability & Settlement Analysis

## 17. FIRM EXPERIENCE:

**Firm Name:** 

|                                         |                                                                                                  |                                                               |                         |
|-----------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------|
| Project Name                            | <b>Atlanta Beltline Westside Trail Segment 4</b>                                                 | Past Performance Evaluation Category(ies)*                    | Planning                |
|                                         |                                                                                                  | Firm Responsibility                                           | Prime                   |
| Project Number                          | N/A                                                                                              | Owner's Name                                                  | Atlanta BeltLine, Inc.  |
| Project Location                        | Atlanta, GA                                                                                      | Owners Project Manager                                        | Kevin Burke, PLA, FASLA |
| Owners Address, Phone, Email            | 100 Peachtree Street NW, Suite 2300, Atlanta, GA 30303   (404) 477-3637   kburke@atlbeltline.org |                                                               |                         |
| Services Commenced by this Firm (mm/yy) | 2020                                                                                             | Total Consultant Contract Cost (\$1,000's)                    | \$5,000                 |
| Services Completed by this Firm (mm/yy) | 2025                                                                                             | Cost of Consultant Services Provided by this Firm (\$1,000's) | \$2,000                 |

### Team Members Involved:

Chelsea Cole

### Project Description:

Alta led a team of consultants in the design and construction of the Atlanta Beltline Westside Trail Segment 4. This segment of the Beltline is rich with technical challenges that exemplify the Alta team's ability to deliver creative solutions that work within the project's constraints.

Throughout Segment 4, the Alta team developed logical transitions deeply grounded in site-specific context and focused on seamless movement through different types of space. From the highly architectural plazas at Lena Street and Mayson Turner road to the more organic green infrastructure and tree-driven areas at Washington Manor Drive and Donald Lee Hollowell Parkway, the team focused design effort on the spaces in-between, creating a legible and engaging experience for all users along the 1.3-mile project corridor.

Near its northern terminus, Segment 4 passes under the existing Donald Lee Hollowell Parkway bridge. The Alta team focused

on creating an inviting and appealing user experience in a constrained existing area. Green infrastructure treatment, hardscape transitions and lighting were all woven into the final design treatment here to prioritize the Hollowell underpass as a place to experience rather than simply pass through.

Preservation of existing tree canopy, unanticipated utility conditions, and highly constrained right-of-way are just some of the constraints that shaped Segment 4 through design and during construction. Chelsea Cole supported development of recommendations and visualizations. She also assisted with developing the planting plans for the project. Segment 4 exemplifies Alta's ability to work collaboratively with Owner, subconsultants, and the community to meet project goals and objectives.

### Project Relevance:

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

## 17. FIRM EXPERIENCE:

**Firm Name:** 

|                                         |                                                                                               |                                                               |                    |
|-----------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------|
| Project Name                            | <b>Selma to Montgomery National Historic Trail Feasibility Study and Design</b>               | Past Performance Evaluation Category(ies)*                    | Planning           |
|                                         |                                                                                               | Firm Responsibility                                           | Prime              |
| Project Number                          | N/A                                                                                           | Owner's Name                                                  | City of Montgomery |
| Project Location                        | Selma & Montgomery, AL                                                                        | Owners Project Manager                                        | Nicholas Freeman   |
| Owners Address, Phone, Email            | 4121 Charmichael Rd #400, Montgomery, AL 36106   (334) 625-4636   nicholas.freeman@jacobs.com |                                                               |                    |
| Services Commenced by this Firm (mm/yy) | 2024                                                                                          | Total Consultant Contract Cost (\$1,000's)                    | \$2,300            |
| Services Completed by this Firm (mm/yy) | Ongoing                                                                                       | Cost of Consultant Services Provided by this Firm (\$1,000's) | \$1,500            |

### Team Members Involved:

Cassie Nichols, Chelsea Cole

### Project Description:

Alta is wrapping up a transformative study aimed at enhancing transportation equity and economic vitality in West Montgomery. The project focuses on improving pedestrian, bicycle, and transit connections for communities along the Selma to Montgomery National Historic Trail, the historic civil rights march that spurred the Voting Rights Act. These communities were disconnected and deeply impacted by the construction of I-65 and I-85.

The primary goals of the study are to identify infrastructure upgrades that make walking, biking, and transit safer and more accessible. It seeks to reconnect neighborhoods that were physically and socially divided by highway development, and to support economic growth by improving access to jobs, education, and essential services. A key focus of the study is to strengthen connections and tell the story of the Selma to Montgomery National Historic Trail, honoring its legacy while promoting community pride and tourism. This is done through proposed shared use paths, road diets to accommodate this path and safety improvement, and bike boulevards. Creative placemaking and storytelling are woven in the components of the proposed built features.

Community engagement is central to the project. Alta's team worked closely with residents of West Montgomery through workshops, surveys, and stakeholder collaboration to ensure that proposed solutions reflect the community's needs and aspirations. Chelsea Cole assisted with community engagement, 10% corridor design development, graphic support, and document development for the project. This inclusive approach will help shape a roadmap for equitable transportation improvements.

The resulting product was a project website, documented oral histories of the marchers, a trail feasibility study and storytelling plan, 10% design and cost estimates, and an implementation approach.

Following the feasibility study, Alta is working with the City of Montgomery to develop 100% design plans for Oak Street and 30% for between Fred D. Gray Avenue and Mobile Street. Chelsea Cole has led the preliminary concept design for the corridor and the placemaking areas as well as the planting design.

### Project Relevance:

- ✓ Transportation Equity
- ✓ Pedestrian & Bicycle Connectivity
- ✓ Community Engagement
- ✓ Shared-Use Path Design
- ✓ Corridor & Placemaking Design
- ✓ Plan Development & Cost Estimating

## 17. FIRM EXPERIENCE:

|                                                                                                                                                              |                                                                                                          |                                                               |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------|
| <b>Firm Name:</b>  <b>BUCHART HORN</b><br>ENGINEERS • ARCHITECTS • PLANNERS |                                                                                                          |                                                               |                   |
| Project Name                                                                                                                                                 | <b>New Lighting Design and Construction Services, I-55 at LA 22 Interchange, LADOTD, Ponchatoula, LA</b> | Past Performance Evaluation Category(ies)*                    | Planning, Traffic |
|                                                                                                                                                              |                                                                                                          | Firm Responsibility                                           | Prime             |
| Project Number                                                                                                                                               | Task Order No.: H.012874.5                                                                               | Owner's Name                                                  | LADOTD            |
| Project Location                                                                                                                                             | Ponchatoula, LA                                                                                          | Owners Project Manager                                        | Agnes Fung, PE    |
| Owners Address, Phone, Email                                                                                                                                 | 1201 Capital Access Road, Baton Rouge, LA 70802   225.379.1232   Agnes.Fung@LA.gov                       |                                                               |                   |
| Services Commenced by this Firm (mm/yy)                                                                                                                      | 06/20                                                                                                    | Total Consultant Contract Cost (\$1,000's)                    | \$245             |
| Services Completed by this Firm (mm/yy)                                                                                                                      | 04/23                                                                                                    | Cost of Consultant Services Provided by this Firm (\$1,000's) | \$200             |

### Team Members Involved:

Sherry Wolfe, Joseph Mingo, Steven Moore

### Project Description:

Buchart Horn (BH) provided comprehensive electrical engineering services for the new roadway lighting system at the I-55 and LA 22 interchange in Tangipahoa Parish, Louisiana. The project was delivered as a task order under LADOTD's Retainer Contract for Electrical Services, with BH serving as the prime consultant. Beginning with a detailed kickoff and site inspections, BH coordinated closely with LADOTD personnel, local government, and utility representatives to document existing conditions and establish design parameters for the new system. The scope of work required careful integration with existing infrastructure and adherence to LADOTD's Illumination & Electrical Standards, the National Electrical Code, and NFPA 70E requirements.

BH developed a complete set of design plans, specifications, and special provisions for the new lighting system covering the entire length of the interchange. These plans included layouts for service points, lighting controllers, disconnects, conduit systems, junction boxes, poles, and luminaires. A photometric analysis was prepared to evaluate LED lighting performance at both 3000K and 4000K color temperatures, with the final design optimized for 3000K luminaires while ensuring compatibility with future 4000K replacements. BH also prepared arc-flash and hazard analyses, voltage drop and fault current calculations, and conduit fill studies to ensure system safety and long-term reliability.

Project management was central to BH's role. The team implemented a phased plan delivery schedule at 30%, 60%, 95%, 98%, and 100% submittals, each accompanied by QA/QC documentation, updated cost estimates, and constructability reviews. BH provided monthly



### Project Relevance:

- ✓ Roadway Lighting Design
- ✓ Electrical Engineering
- ✓ Project Management & Support
- ✓ Quality Control & Constructability Reviews
- ✓ Plan Development & Letting Support
- ✓ Construction Support

progress reports and maintained ongoing communication with LADOTD to address schedule updates, coordination with concurrent projects, and resolution of design issues. During the bidding phase, BH responded to Requests for Information (RFIs) and supported LADOTD in plan clarifications and bid reviews.

Throughout construction, BH assisted with the review of contractor submittals, performed site inspections, and participated in the final walk-through and punch list development. The firm ensured that grounding, labeling, and testing requirements—including ground resistance testing, circuit schedules, and as-built record documentation—met LADOTD's standards for acceptance. The completed lighting system not only enhanced roadway safety at the interchange but also incorporated modern smart controls, providing LADOTD with the capability to monitor and manage lighting operations through remote access. This project demonstrated BH's ability to deliver complex electrical design services while effectively managing coordination, quality, and project delivery under a statewide retainer contract.

## 17. FIRM EXPERIENCE:

**Firm Name:**  **BUCHART HORN**  
ENGINEERS • ARCHITECTS • PLANNERS

|                                         |                                                                                   |                                                                                          |                                                               |                   |
|-----------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------|
| Project Name                            | Lighting Design for New LA 544 Interchange and I-20 Overpass, LADOTD, Ruston, LA. | Past Performance Evaluation Category(ies)*                                               |                                                               | Planning, Traffic |
|                                         |                                                                                   | Firm Responsibility                                                                      | Prime                                                         |                   |
| Project Number                          | Task Order No.: H.010616.5-2                                                      | Owner's Name                                                                             | LADOTD                                                        |                   |
| Project Location                        | Ruston, LA                                                                        | Owners Project Manager                                                                   | Michael Armentor                                              |                   |
| Owners Address, Phone, Email            |                                                                                   | 1201 Capital Access Road, Baton Rouge, LA 70802   225.379.1232   Michael.Armentor@LA.gov |                                                               |                   |
| Services Commenced by this Firm (mm/yy) |                                                                                   | 03/20                                                                                    | Total Consultant Contract Cost (\$1,000's)                    | \$259             |
| Services Completed by this Firm (mm/yy) |                                                                                   | 05/24                                                                                    | Cost of Consultant Services Provided by this Firm (\$1,000's) | \$259             |

### Team Members Involved:

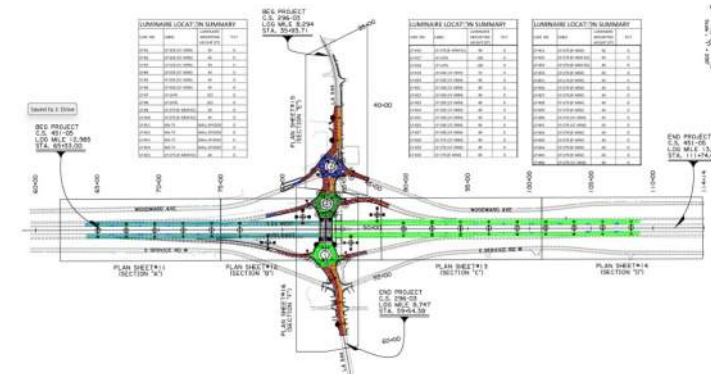
Sherry Wolfe, Joseph Mingo, Steven Moore

### Project Description:

The LADOTD initiated a project in Ruston, Louisiana to replace the existing LA 544 diamond interchange over I-20 with a modern roundabout diamond interchange. The larger roadway improvement effort involves four multilane roundabouts, a new bridge over I-20, widening of LA 544 from two to four lanes, and reconstruction of the ramps and frontage roads. These significant improvements are intended to increase capacity, improve safety, and reduce congestion along this key regional corridor.

Under LADOTD's Statewide Electrical Services IDIQ contract, Buchart Horn (BH) was tasked with developing the roadway lighting design to support the proposed interchange. BH's role was to provide a full range of illumination engineering services, including surveying, roadway illumination analysis, a preliminary photometric report, and the preparation of electrical design plans, specifications, and cost estimates. The scope covered the entire interchange, including all on- and off-ramps, roundabouts, and connecting roadway segments.

BH's electrical engineering team applied LADOTD's lighting standards and national guidelines, including IESNA RP-8 and the Design Guide for Roundabout Lighting (DG-19), to ensure that the lighting design would achieve appropriate levels of visibility and uniformity. The team developed preliminary layouts identifying service points, controllers, and luminaire placement, and conducted detailed photometric modeling to



### Project Relevance:

- ✓ Roadway Lighting Design
- ✓ Electrical Engineering
- ✓ Roundabout Illumination
- ✓ Photometric Analysis
- ✓ Plan Development & Cost Estimating
- ✓ Project Coordination & Support

confirm compliance with safety and operational requirements. Coordination with LADOTD district staff, utility representatives, and other design participants was emphasized to minimize conflicts and ensure the lighting system could be readily integrated into the future constructed interchange.

While the larger roadway and bridge project remains in the planning and design stages, BH successfully completed and submitted all deliverables associated with the lighting scope. LADOTD's evaluation noted that the work was technically accurate, well-staffed, and fulfilled all contractual obligations. This assignment highlights BH's ability to deliver specialized electrical engineering services within a broader, multi-disciplinary project framework, providing the lighting foundation that will support safe operations once the new interchange is constructed.

## 17. FIRM EXPERIENCE:

|                                                                                                                                                              |                                        |                                                                                          |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------|------------------|
| <b>Firm Name:</b>  <b>BUCHART HORN</b><br>ENGINEERS • ARCHITECTS • PLANNERS |                                        |                                                                                          |                  |
| Project Name                                                                                                                                                 | <b>US 165 Roadway Lighting, LADOTD</b> | Past Performance Evaluation Category(ies)*                                               |                  |
|                                                                                                                                                              |                                        | Firm Responsibility                                                                      | Prime            |
| Project Number                                                                                                                                               | Task Order No.: H.014302               | Owner's Name                                                                             | LADOTD           |
| Project Location                                                                                                                                             | Richwood, LA                           | Owners Project Manager                                                                   | Michael Armentor |
| Owners Address, Phone, Email                                                                                                                                 |                                        | 1201 Capital Access Road, Baton Rouge, LA 70802   225.379.1232   Michael.Armentor@LA.gov |                  |
| Services Commenced by this Firm (mm/yy)                                                                                                                      | 10/20                                  | Total Consultant Contract Cost (\$1,000's)                                               | \$786            |
| Services Completed by this Firm (mm/yy)                                                                                                                      | 10/24                                  | Cost of Consultant Services Provided by this Firm (\$1,000's)                            | \$421            |

### Team Members Involved:

Sherry Wolfe, Joseph Mingo, Steven Moore

### **Project Description:**

Buchart Horn provided comprehensive electrical engineering and project management services for the development and implementation of a new roadway lighting system along approximately four miles of US 165 in Ouachita Parish, Louisiana. Beginning south of Charleston Drive and extending north of LA 15, the project improved corridor safety and tied into an adjacent recently constructed lighting system. BH managed surveying and subsurface utility engineering efforts, coordinated with LADOTD, the Town of Richwood, Entergy, and utility providers, and developed design plans, specifications, special provisions, cost estimates, and illumination analyses in accordance with LADOTD electrical and illumination standards, NFPA 70/70E, and AASHTO guidelines.

Throughout the design phase, BH delivered milestone submittals at the 30%, 60%, 95%, 98%, and 100% plan stages. Electrical engineering work included detailed roadway photometric analyses, short-circuit and arc-flash hazard evaluations, and preparation of transportation management plans for both design and construction. The team ensured that LED lighting systems were selected to optimize visibility and energy efficiency, while maintaining consistency with existing infrastructure. BH's design coordination included evaluation of as-built plans, extensive utility investigation, and integration of survey and subsurface utility data to minimize conflicts and construction risks.

Following design completion, LADOTD expanded BH's role under a supplemental contract to provide Construction Related Engineering



### **Project Relevance:**

- ✓ Roadway Lighting Design
- ✓ Electrical Engineering
- ✓ Project Management & Support
- ✓ Utility Coordination
- ✓ Quality Control & Field Inspection
- ✓ Construction Support

Services (CRES). In this capacity, BH participated in pre-construction meetings, reviewed and accepted shop drawings and equipment submittals, verified operation and maintenance manuals, processed Requests for Information, and performed multiple field inspections. The team also prepared final arc-flash hazard calculations based on installed equipment and conducted reviews of contractor-prepared as-built drawings to ensure compliance with electrical safety standards. These services supported LADOTD's project engineers in monitoring construction progress, addressing field challenges, and maintaining quality control.

LADOTD's evaluation of BH's performance highlighted the firm's strong project management and technical responsiveness. BH's engineers expedited resolution of an unforeseen conflict when an undocumented DOTD fiber optic cable was discovered, quickly redesigning portions of the lighting layout to allow construction to proceed without delay. The evaluation praised BH's effective coordination, thorough field inspection reporting, and proactive contract administration, noting that the firm's professionalism and technical capability fully met LADOTD's expectations.

## Section 18-23

### Hooper Road Widening - LA 3034 - LA 37

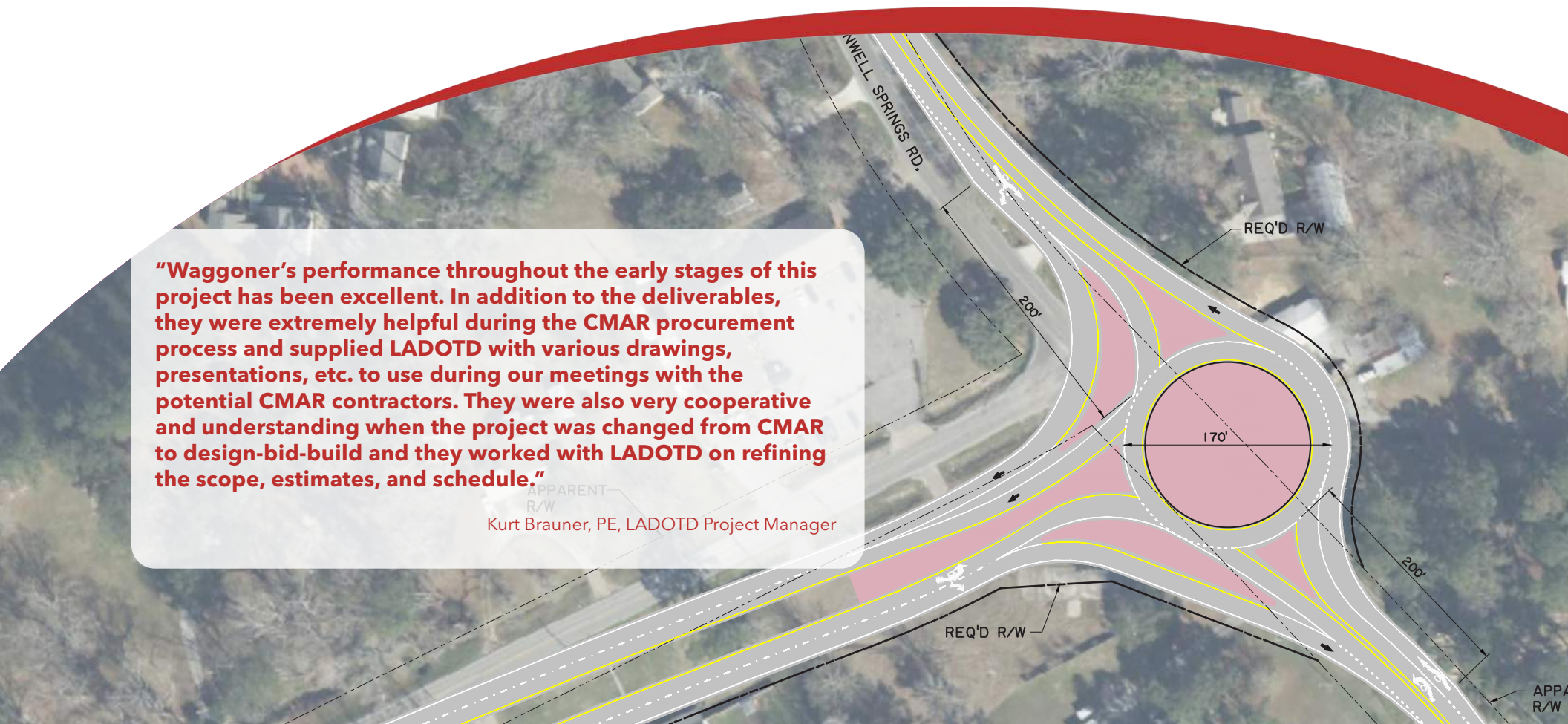
East Baton Rouge Parish  
H.009300

Waggoner Engineering, Inc.  
Lead Design Firm

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

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

APPARENT R/W  
Kurt Brauner, PE, LADOTD Project Manager



## 18. APPROACH AND METHODOLOGY:

Waggoner Engineering, Inc. has more than three decades of Louisiana transportation experience together with Waggoner's broader infrastructure, water resources, and environmental capabilities. Our leadership and staff continue to strengthen Waggoner's service to LADOTD, bringing established client relationships and proven project delivery experience across the state.

For this contract, **Waggoner** will lead a collaborative, Louisiana-based team with extensive experience in urban roadway widening, intersection improvements, access management, drainage coordination, and LADOTD plan development. **Vectura** will provide traffic engineering and signal design; **Ardaman** will support geotechnical investigations and recommendations; **Buchart Horn** will provide roadway lighting design; and **Alta** will lead landscaping and streetscape design. Together, the team offers the technical depth and specialized expertise needed to deliver a coordinated, constructible corridor improvement project.



### PROJECT BACKGROUND AND UNDERSTANDING

Waggoner understands the purpose of the **LA 384 (Big Lake Road to McNeese Street) project is to improve safety, mobility, and traffic operations along one of Lake Charles' primary east-west corridors while accommodating continued residential and commercial growth.**

The project will widen approximately four miles of LA 384 from Big Lake Road to McNeese Street, transitioning from an existing two-lane section to a three-lane urban section west of Nelson Road to a four-lane divided urban section east of Nelson Road. Additional improvements include intersection upgrades, traffic signal modernization, Complete Streets implementation, replacement of two existing bridges, roadway lighting, landscaping, and access management improvements throughout the corridor. The Stage 0 Study identified recurring safety and operational deficiencies, including congestion, rear-end and turning crashes, and several intersections with a high potential for safety improvements, all of which will guide the final design.

Waggoner also understands that this contract advances the project through the 60% Final Plan milestone, establishing the project's roadway geometry, drainage systems, bridge replacement concepts, traffic signal improvements, utility coordination, preliminary right-of-way requirements, and supporting engineering documentation. Because this phase establishes the foundation for final design, our team will focus on resolving key design challenges early through proactive coordination with LADOTD, the City of Lake Charles, Calcasieu Parish, utility owners, and other stakeholders while emphasizing constructability, access management, maintenance of traffic, and rigorous QA/QC. Final Plans, along with roadway lighting and landscaping design, will be completed under future Supplemental Agreements as directed by LADOTD.

### Advancing the Stage 0 Vision into a Buildable Corridor

The Stage 0 Feasibility Study provides a strong foundation for the LA 384 corridor improvements by identifying preferred roadway sections, intersection concepts, safety priorities, and phased implementation strategies. Waggoner will build upon this work by validating the recommended concepts using DOTD-provided survey and SUE data, updated traffic analyses, hydraulic evaluations, and field reconnaissance to confirm that each recommendation can be successfully advanced into final design. Rather than simply carrying the Stage 0 recommendations forward, our team will refine roadway geometry, drainage systems, bridge replacements, traffic signal improvements, and Complete Streets features to develop a practical, coordinated, and constructible corridor solution.

Throughout preliminary design, Waggoner will work closely with LADOTD District 07, the City of Lake Charles, Calcasieu Parish, utility owners, and stakeholders to resolve design challenges early and minimize revisions later in the project. Particular emphasis will be placed on verifying right-of-way requirements, utility conflicts, access management, maintenance of traffic, and constructability while preserving the safety and operational benefits identified in the Stage 0 Study. This collaborative approach will establish a well-defined project through the 60% Final Plan milestone and position the project for an efficient transition into final design.

### Establishing Corridor Geometry and Project Footprint

Advancing the roadway geometry will be one of our first priorities. It establishes the footprint and serves as the basis for right-of-way evaluation, utility coordination, access management, and subsequent design activities.

The Stage 0 Study identifies two distinct roadway sections that require different geometric solutions while providing a seamless transition through the corridor:

- **Big Lake Rd to Nelson Rd:** This segment will widen the existing two-lane roadway to a three-lane urban section consisting of one travel lane in each direction with a two-way left-turn lane. Based on a review of the Calcasieu Parish Assessor maps, this section generally has approximately 60 feet of apparent existing right-of-way, making early refinement of the horizontal alignment critical to minimizing additional right-of-way needs while maintaining access to adjacent residential and commercial properties.
- **Nelson Rd to McNeese St:** This segment transitions to a four-lane divided urban arterial with a median and dedicated turn lanes at major intersections. While the corridor generally contains approximately 60 feet of apparent existing right-of-way, several sections expand to nearly 100 feet, providing greater flexibility for the proposed median, intersection improvements, and Complete Streets elements. Early geometric development will identify where the existing corridor can accommodate the proposed improvements and where additional right-of-way or utility impacts may occur.

Once the preliminary horizontal and vertical geometry is established, Waggoner will evaluate the proposed roadway footprint against existing property ownership and the DOTD-provided SUE information to identify potential right-of-way acquisitions and utility conflicts early in the design process. Confirming these impacts during preliminary design will allow the project team to coordinate with LADOTD and stakeholders before advancing the plans, minimizing redesign and providing a well-defined project footprint through the 60% Final Plan milestone.

## Traffic Engineering and Signal Design

Vectura will lead traffic engineering and signal design effort with updated traffic data collection, signal warrant analyses, crosswalk studies, signal timing, and final signal design. Working closely with Waggoner's roadway team, Vectura will coordinate traffic operations with roadway geometry, access management, and Complete Streets improvements to improve safety, corridor progression, and long-term operations. Key traffic improvements include:



### New Signals

New signals are proposed at **Lisle Peters Road (Big Lake Road), Prien Lake Road, and Jefferson Drive**. Stage 0 recommended signalization at Lisle Peters Road based on future warrants. Updated analyses will guide the Prien Lake Road signal, while Jefferson Drive will provide ADA-compliant crossings and multimodal access near Dolby Elementary School.



### Signal Upgrades

Signals at **Elliot Road/Ihles Road, Weaver Road, Nelson Road, and Lake Street** will be upgraded with the corridor widening to improve lane assignments, traffic progression, and turn-lane capacity. Stage 0 identified Weaver Road as a high-priority improvement and Lake Street as the corridor's highest-priority intersection.

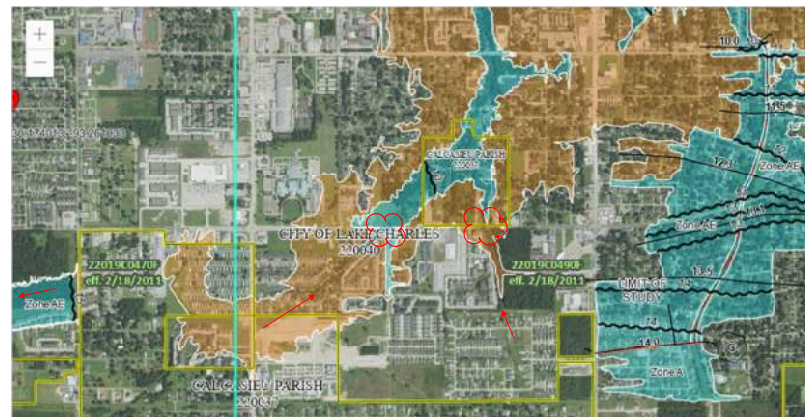


### Access Management

A new signalized westbound U-turn at **Nelson Road** will support median access management and improve corridor mobility. The improvement will provide a controlled turning movement for westbound motorists, helping maintain access to corridor destinations and support traffic progression near the transition to the divided roadway section.

## Bridge Design and Hydraulics

Waggoner has completed a preliminary desktop evaluation of the proposed bridge replacement locations using available FEMA mapping, LiDAR data, and aerial imagery to better understand the existing crossings and identify potential design considerations. This review indicates that the two structures located just west of Pecan Acres Street and just west of Powell Lane are near the upstream limits of the FEMA floodplain



and outside the mapped regulatory floodway. Based on the apparent drainage areas and existing topography, the crossing west of Pecan Acres Street conveys the larger drainage basin and may ultimately warrant a bridge structure rather than a reinforced concrete box culvert, subject to detailed survey, hydraulic modeling, and coordination with LADOTD. The crossing west of Powell Lane appears more conducive to a reinforced concrete box culvert, pending final hydraulic evaluation.

Waggoner will perform detailed hydraulic analyses and develop the final structure recommendations in accordance with the AASHTO LRFD Bridge Design Specifications and the LADOTD Bridge Design and Evaluation Manual (BDEM). Ardaman will provide the geotechnical investigation and foundation recommendations to support the structural design. During discussions with LADOTD prior to advertisement, the Department also identified the existing box culvert near Central Parkway for evaluation as part of the roadway widening. Based on our preliminary review, the structure appears to provide approximately 100 feet of available width, which is anticipated to accommodate the proposed roadway section. Waggoner will verify the structural adequacy and hydraulic performance of the existing culvert during preliminary design to determine whether modifications are required.

### Complete Streets and Multimodal Design

The LA 384 corridor serves several high pedestrian areas, including Dolby Elementary School, Lake Charles College Prep, commercial centers, churches, and established residential neighborhoods. The Stage 0 Study also references the City of Lake Charles Bicycle and Pedestrian Master Plan, which identifies planned sidewalk and bicycle connections along LA 384, Lisle Peters Road, Nelson Road, Lake Street, Weaver Road, and Jefferson Drive. These facilities will be incorporated into the corridor design where practical while maintaining consistency with the City's long-term multimodal vision.

Waggoner will evaluate sidewalks, ADA-compliant curb ramps, crosswalks, pedestrian signal equipment, and bicycle accommodations in conjunction with roadway geometry and available right-of-way. Emphasis will be placed on improving pedestrian connectivity at the Lake Street, Jefferson Drive, Nelson Road, Weaver Road, and Lisle Peters Road intersections, where the Stage 0 identified operational improvements and the advertised scope includes crosswalk studies and signal upgrades. Because right-of-way varies throughout the corridor, Complete Streets elements will be refined during design to maximize connectivity while minimizing property impacts, utility relocations, and conflicts with the proposed roadway widening.

### Construction Sequencing and Maintenance of Traffic

Waggoner will develop a construction sequencing plan that maintains traffic operations and continuous access throughout each phase of construction. Roadway widening will be phased to maintain through traffic in both directions while using temporary pavement, lane shifts, and staged construction at the major signalized intersections to maintain traffic progression and access to businesses, schools, neighborhoods, churches, and emergency services. Temporary traffic signals and phasing modifications will be incorporated where necessary to safely maintain intersection operations while signal equipment is reconstructed.

Special consideration will be given to the bridge replacements west of Pecan Acres Street and west of Powell Lane, where there are anticipated temporary diversion roads and bridge structures to maintain traffic during construction. Waggoner will evaluate temporary bridge or culvert crossings early in design and coordinate their construction with adjacent roadway widening and signal improvements to minimize disruptions and maintain continuous travel along the LA 384 corridor.

### PLAN DEVELOPMENT AND PRELIMINARY DESIGN SERVICES

Waggoner will develop the LA 384 corridor improvements per LADOTD Roadway Design Procedures and the contract deliverables through the 60% Final Plan milestone. Each submittal will progressively advance the design while incorporating LADOTD review comments and refining the project for final design.

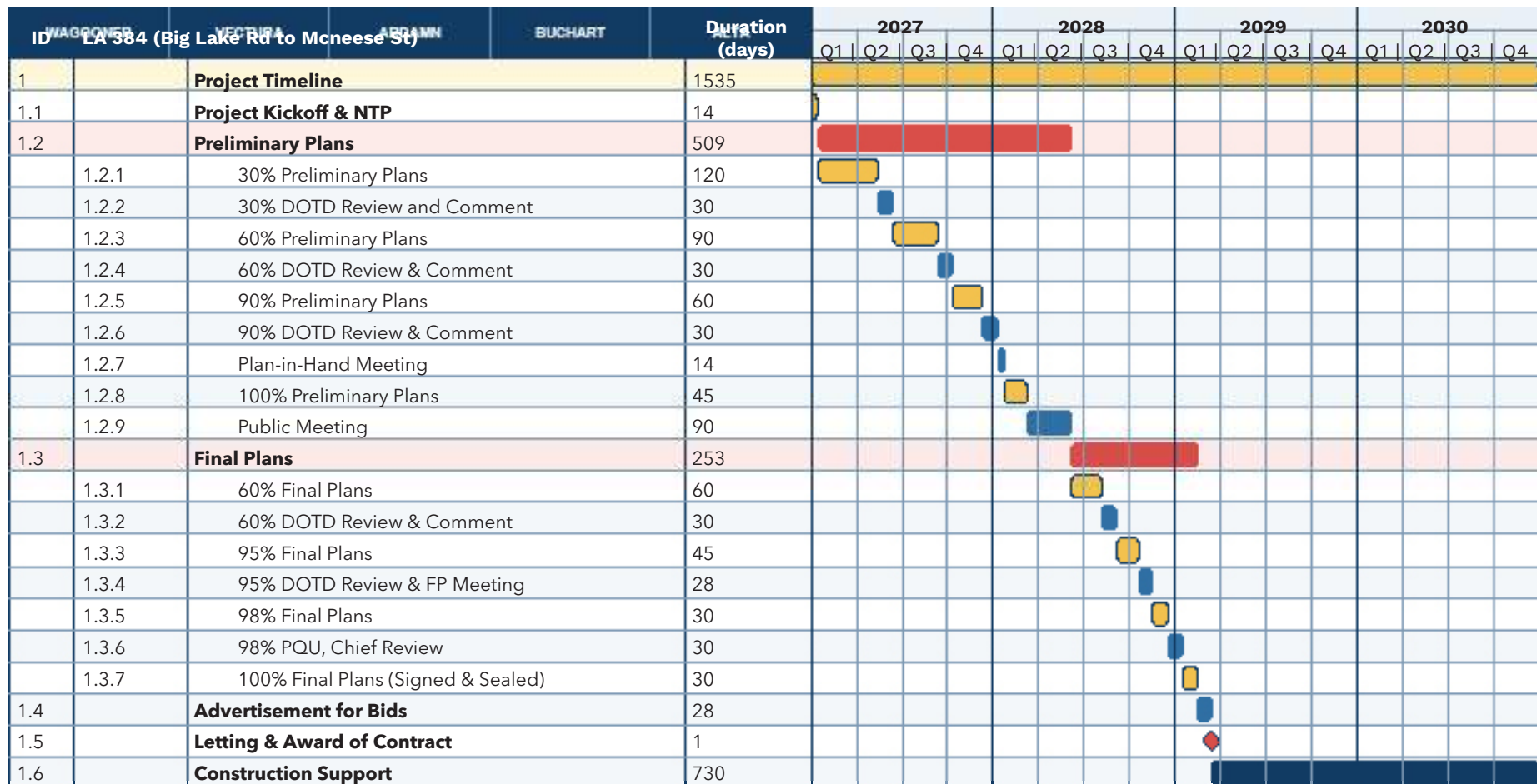
| Key Milestones                  | Description                                                                                                                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Existing Data Collection</b> | Review DOTD survey, SUE information, Stage 0 documents, traffic studies, utility records, aerial mapping, and perform field reconnaissance to establish existing conditions and constraints.                                                                                                                                |
| <b>30% Preliminary Plans</b>    | Establish baseline roadway geometry and prepare the Preliminary Design Report identifying initial design concepts, project limits, and anticipated design challenges.                                                                                                                                                       |
| <b>60% Preliminary Plans</b>    | Advance the preliminary design based on LADOTD review comments, refining roadway geometry, structures, drainage, traffic, and utility coordination while continuing stakeholder coordination.                                                                                                                               |
| <b>90-95% Preliminary Plans</b> | Prepare the Plan-in-Hand (PIH) submittal, participate in the PIH meeting, and develop the draft Utility Conflict Matrix while incorporating PIH comments into the preliminary design.                                                                                                                                       |
| <b>100% Preliminary Plans</b>   | Prepare the complete Preliminary Plan package, including finalized taking lines and supporting documentation necessary to advance into Final Plans.                                                                                                                                                                         |
| <b>60% Final Plans</b>          | Prepare the 60% Final Plan submittal and participate in the Joint Plan Review (JPR). Revise the plans in response to JPR comments and prepare the ROW coordination plans, comprehensive estimate of probable cost by category, phased construction cost estimates, and revised cost subtotals as directed by the LADOTD PM. |

## Public Meeting and Stakeholder Outreach

Waggoner will coordinate and conduct an open-house public meeting to inform residents, businesses, property owners, and other stakeholders of the proposed improvements and provide an opportunity for input. We will work with LADOTD to establish the date and venue, provide required notices, notify adjacent property owners and interested parties, and prepare clear exhibits showing the corridor-wide improvements, proposed roadway sections, right-of-way limits, intersection concepts, and other features. Waggoner will prepare the narrated presentation, handouts, sign-in materials, comment forms, and meeting exhibits; provide knowledgeable staff to answer questions; and document all written and verbal comments. Following the meeting, the team will compile responses with LADOTD and prepare the Public Meeting Record, notices, exhibits, comments, responses, attendance, and the required transcript.

## PROJECT SCHEDULE

Waggoner understands that successful delivery of the LA 384 corridor improvements depends on proactive project management, timely coordination, and adherence to LADOTD milestone commitments. The preliminary project schedule below illustrates our anticipated sequence of design activities from project initiation through the Final Plans phase. While the initial contract scope concludes at the 60% Final Plan milestone, the schedule also depicts the subsequent Final Plans effort to demonstrate Waggoner's understanding of the complete project delivery process and the logical progression of activities required to advance the project through construction readiness.



## 19. WORKLOAD:

| Firm(s)<br>ALL FIRMS MUST BE<br>REPRESENTED IN THIS TABLE                         | Discipline(s)              | Contract Number and State<br>Project Number | Project Name                                                 | Remaining<br>Unpaid<br>Balance |
|-----------------------------------------------------------------------------------|----------------------------|---------------------------------------------|--------------------------------------------------------------|--------------------------------|
|  | Road                       | 44-19010, H.010652                          | LA 73: US 61 (Airline) - Essen Lane                          | \$2,349                        |
|                                                                                   |                            | 44-19010, H.010116                          | LA 1088: Soult and Trinity Roundabouts T.O. 3                | \$280,041                      |
|                                                                                   |                            | 44-18646, H.004100                          | I-10: LA 415 to Essen Lane on I-10 and I-12                  | \$1,941,486                    |
|                                                                                   |                            | 44-32781, H.016795                          | LA 983: LA 984 - LA 416 (Dist. 61 IDIQ)                      | \$51,465                       |
|                                                                                   |                            | 44-32781, H.016796                          | LA 404: LA 75 - LA 3001 (Dist. 61 IDIQ)                      | \$84,705                       |
|                                                                                   |                            | 44-24084, H.009300                          | CMAR Contract for Hooper Road Widening (LA 3034 - LA 37)     | \$7,820                        |
|                                                                                   | Bridge                     | 4400029912 (4400019338)                     | Rural Bridge Replacement Initiative Phase II (South) (16 #s) | \$167,679                      |
|                                                                                   |                            | 4400029918 (4400025041)                     | IIJA Off-System Bridge Program, District 62 (6 #s)           | \$16,080                       |
|                                                                                   |                            | 4400029197, H.016093                        | US 84: Grand Cane Bayou & Relief Bridges                     | \$103,008                      |
|                                                                                   |                            | 4400029197, H.016094                        | US 371: Brushey Creek Bridge                                 | \$209,543                      |
|                                                                                   | Other (Project Management) | 4400029197, 69 Projects                     | IIJA Off-System Bridge Project Management (7 Districts)      | \$738,472                      |
|                                                                                   | Other (Public Involvement) | 44-19010, H.010116                          | LA 1088: Soult and Trinity Roundabouts T.O. 4                | \$18,254                       |
|  | Traffic                    | 4400031331, H.016365                        | LA 1 Caddo Lake Bridge to Donna Annete Road                  | \$14,886                       |
|                                                                                   |                            | 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                                | \$6,203                        |
|                                                                                   |                            | 4400026026, H.016037                        | LA 1138-1 & LA 1138-2: Corridor Improvements                 | \$129,310                      |
|                                                                                   |                            | 4400025299, H.016437.5                      | US 190: Wooddale to Livingston P/L Study                     | \$17,460                       |

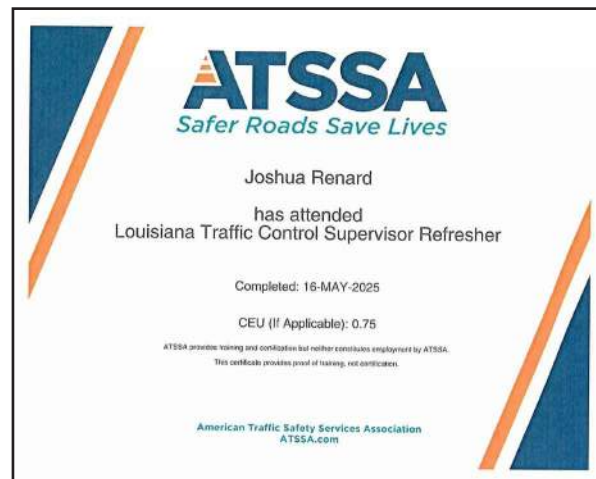
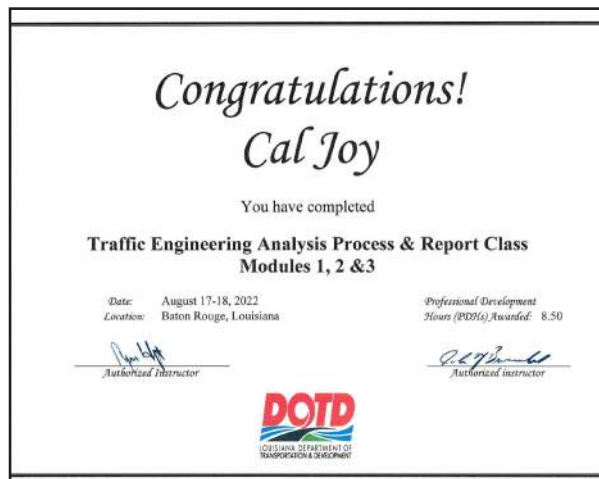
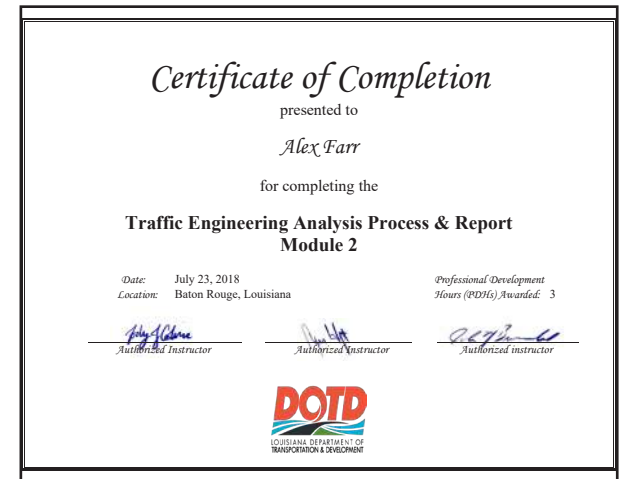
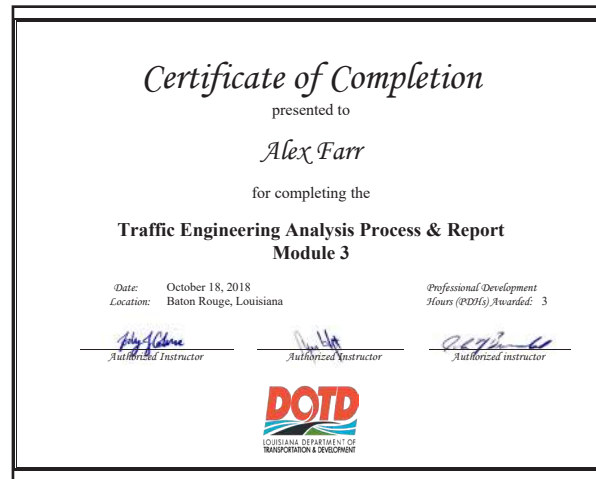
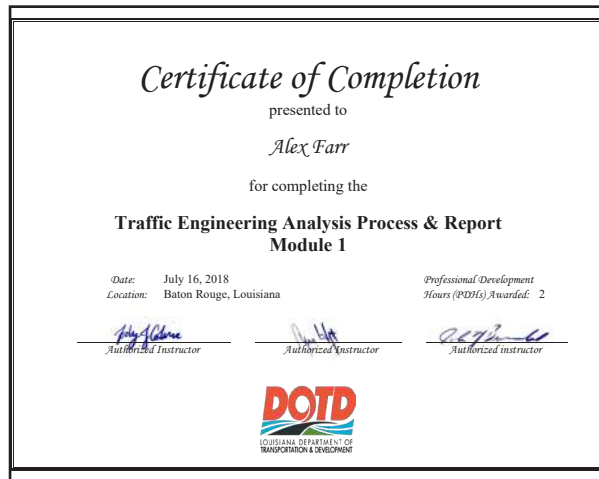
## 19. WORKLOAD:

|                                                                                   |         |                                           |                                                   |             |
|-----------------------------------------------------------------------------------|---------|-------------------------------------------|---------------------------------------------------|-------------|
|  | Geotech | 44-4128; H.004273                         | I-49 Connector, Lafayette                         | \$740,233   |
|                                                                                   |         | 44-18899; H.004791                        | LA 23: Belle Chasse Bridge & Tunnel (HBI)         | \$40,464    |
|                                                                                   |         | 44-19013; H.004100.5 & .6                 | I-10 CMAR Design Continuation: LA 415 I-10 & I-12 | \$814,935   |
|                                                                                   |         | H.004435                                  | I-12 to Bush Construction Phase                   | \$39,040    |
|                                                                                   |         | 44-8671; H.009266                         | I-10 Widening: LA 73 to LA 30                     | \$46,811    |
|                                                                                   |         | 44-17438; H.013284                        | MRB GBR LA 1 to LA 30 Connector                   | \$3,979     |
|                                                                                   |         | 44-6189; H.004647.6                       | I-20 Mississippi River Bridge at Vicksburg        | \$1,185,535 |
|                                                                                   |         | 44-25025; H.015452-56,<br>H.015458        | IIJA                                              | \$753       |
|                                                                                   |         | 44-21519; H.012030.5                      | KCS RR Overpasses US 371                          | \$39,877    |
|                                                                                   |         | 44-21887; H.012542,<br>H.012453, H.012047 | Replacement of 15 Bridges                         | \$113,404   |
|                                                                                   |         | 44-6189; H.016313.5-14.5                  | Culvert Replacements                              | \$951       |
|                                                                                   |         | H.015430                                  | IIJA                                              | \$3,192     |
|                                                                                   |         | H.001798                                  | LA 531: Bridges Near Dubberly                     | \$12,533    |
|                                                                                   |         | H.016094                                  | US 371: Brushy Creek Bridge                       | \$6,739     |
|                                                                                   |         | H.016204                                  | Benton Sidewalks & RR Crossing                    | \$7,721     |
|                                                                                   |         | H.016328.5                                | Canal Bridge Iberville Parish                     | \$2,291     |
|                                                                                   |         | H.016333.5                                | Over Bayou Bridge Evangeline Parish               | \$11,438    |
|                                                                                   |         | H.016334.5                                | Over Drain Bridge Evangeline Parish               | \$12,260    |
|                                                                                   |         | H.016335.5                                | Canal Bridge Iberville Parish                     | \$4,225     |
|                                                                                   |         | H.016336.5                                | Bayou Bridge Evangeline Parish                    | \$35,039    |
|                                                                                   |         | H.016083.5                                | W Worthey Sidewalks Ascension Parish              | \$39,674    |

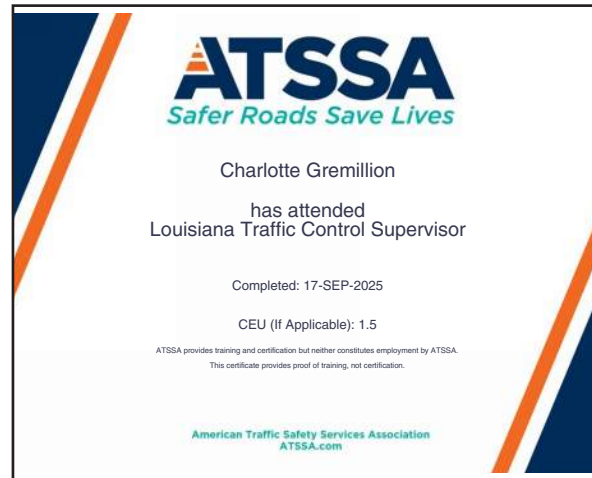
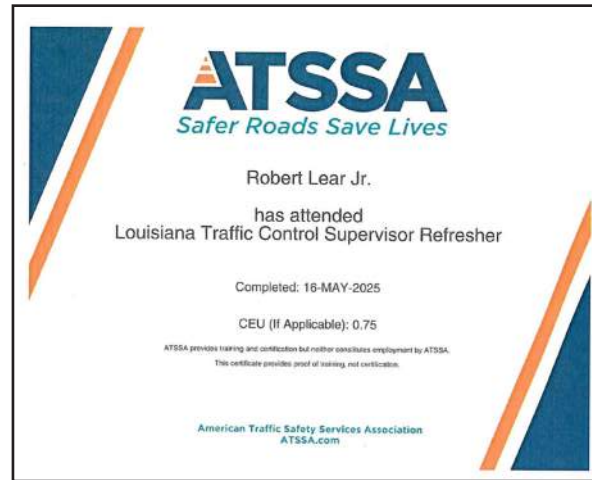
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|-------------------------------------------------------------------------------------|--------------------------------|-----|-----|-----|
|  | Other (Landscape Architecture) | N/A | N/A | N/A |
|-------------------------------------------------------------------------------------|--------------------------------|-----|-----|-----|

|                                                                                     |                  |                      |                                     |           |
|-------------------------------------------------------------------------------------|------------------|----------------------|-------------------------------------|-----------|
|  | Other (Lighting) | 44-11353, H.016413.5 | I-20 Sam R Fert. Dr to Red River Br | \$467,685 |
|                                                                                     |                  | 44-11353, H.016414.5 | I-20: Greenwood Rd. & Lakeshore Dr. | \$447,479 |

## 20. CERTIFICATIONS/LICENSES:



## 20. CERTIFICATIONS/LICENSES:



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State of  
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**COMMERCIAL DIVISION**  
**225.925.4704**

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

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

### Previous Names

**Business:** WAGGONER ENGINEERING, INC.  
**Charter Number:** 34954531F  
**Registration Date:** 6/16/2000  
**Domicile Address**

143 A LEFLEURS SQUARE  
JACKSON, MS 39211

### Mailing Address

143 A LEFLEURS SQUARE  
JACKSON, MS 39211

### Principal Business Office

143 A LEFLEURS SQUARE  
JACKSON, MS 39211

### Registered Office in Louisiana

450 LAUREL STREET, 8TH FLOOR  
BATON ROUGE, LA 70801

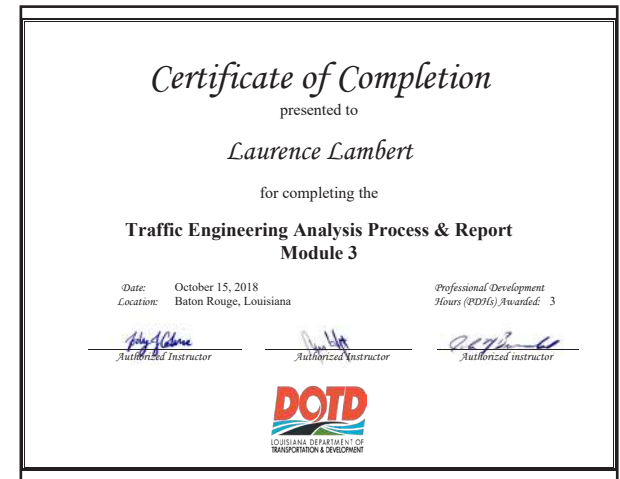
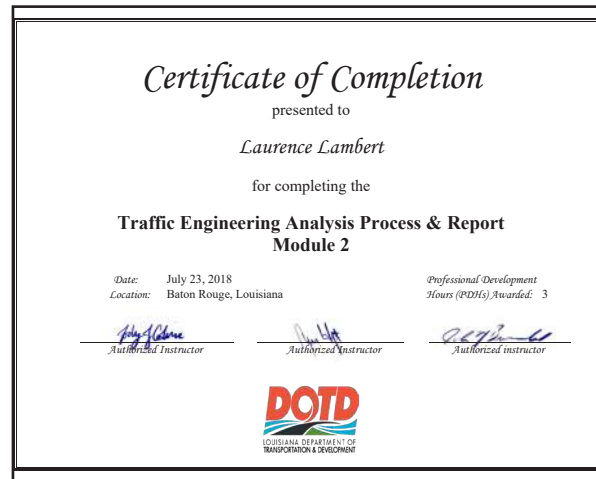
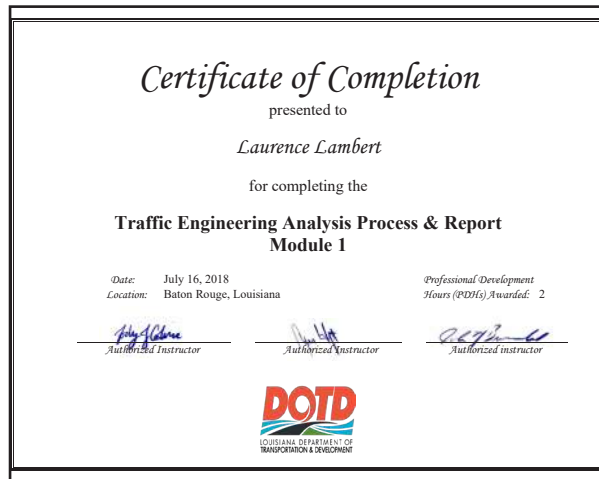
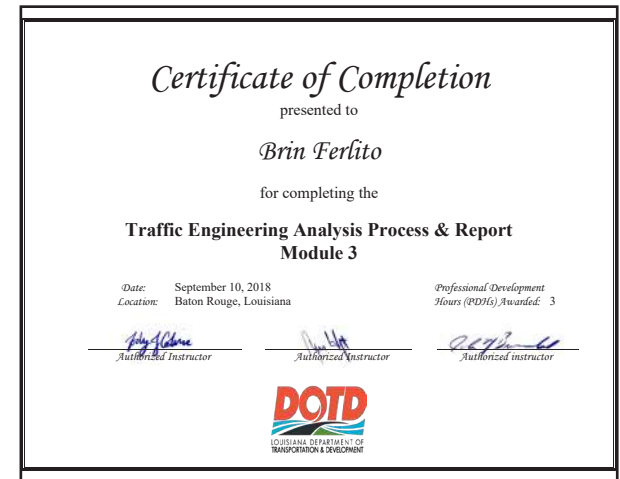
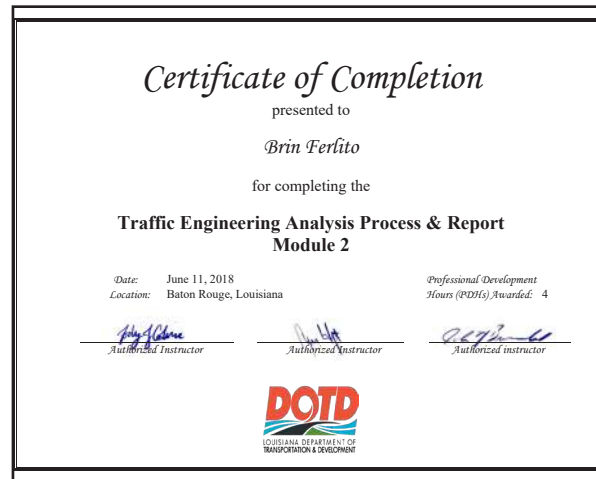
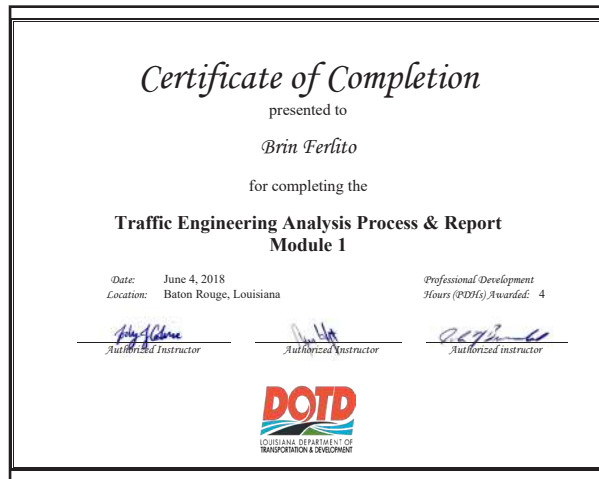
### Principal Business Establishment in Louisiana

450 LAUREL STREET  
8TH FLOOR  
BATON ROUGE, LA 70801

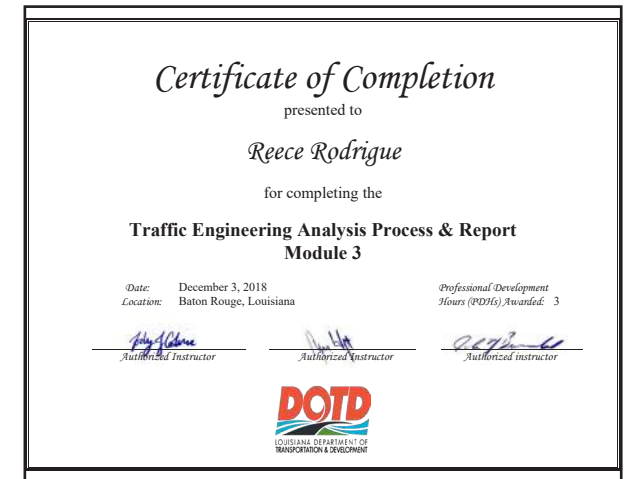
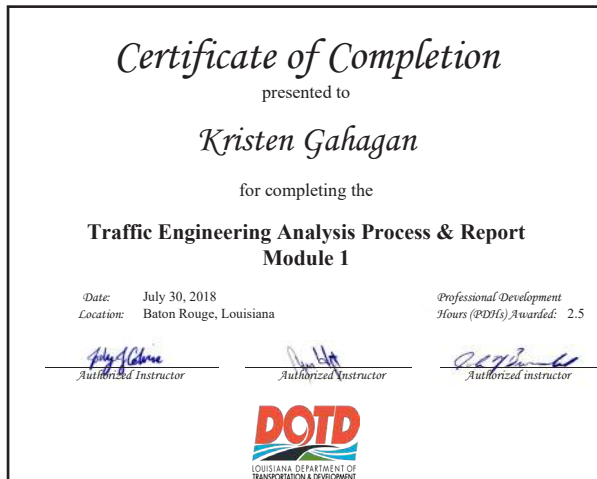
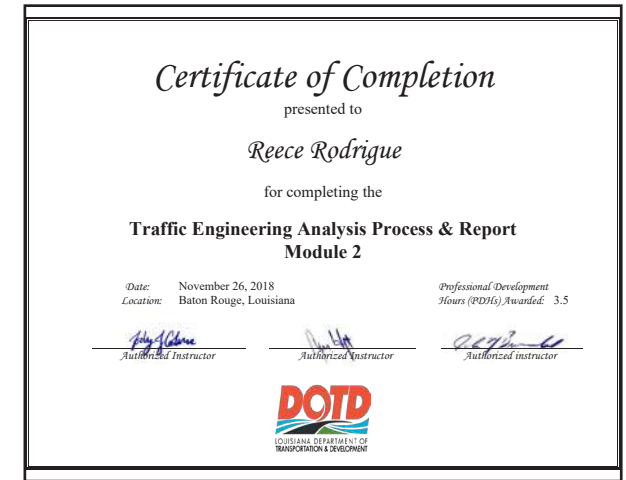
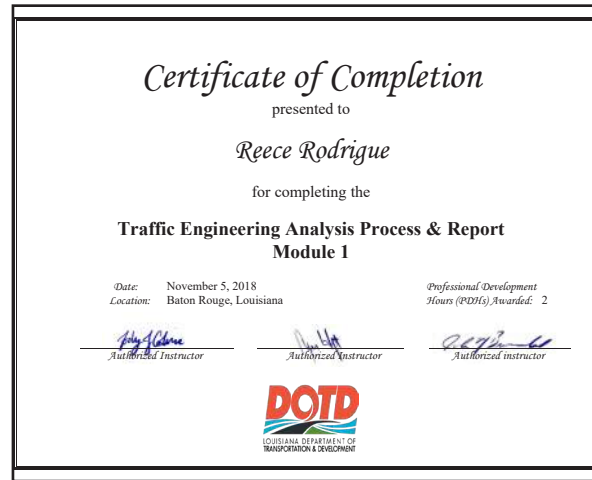
### Status

**Status:** Active  
**Annual Report Status:** In Good Standing  
**Qualified:** 6/16/2000  
**Last Report Filed:** 6/12/2026  
**Type:** Business Corporation (Non-Louisiana)

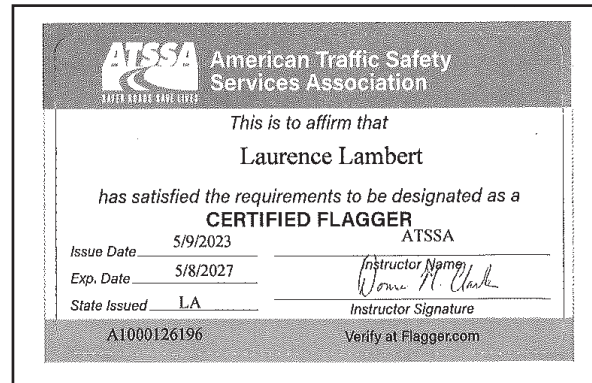
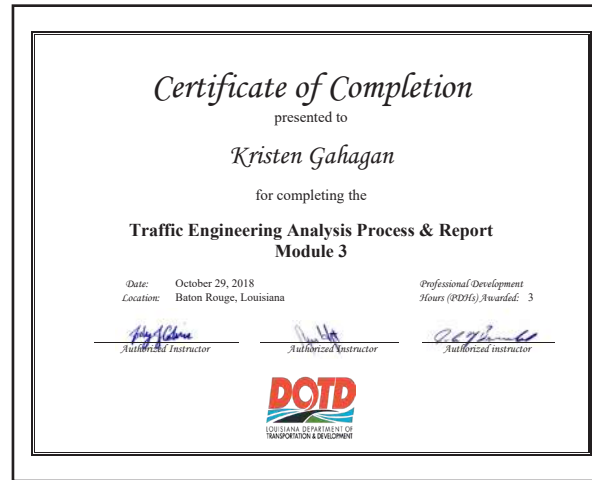
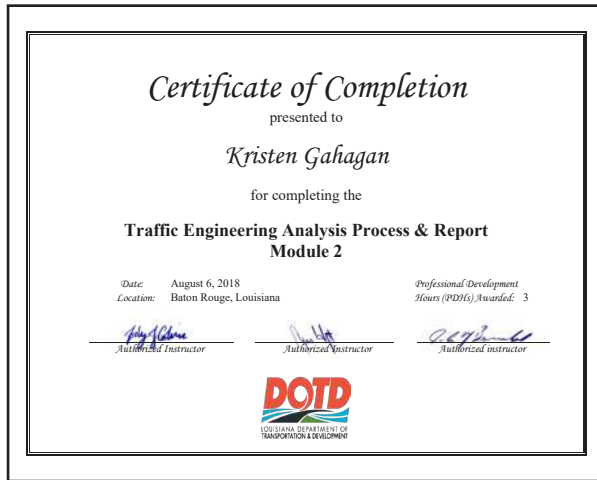
## 20. CERTIFICATIONS/LICENSES:



## 20. CERTIFICATIONS/LICENSES:



## 20. CERTIFICATIONS/LICENSES:



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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

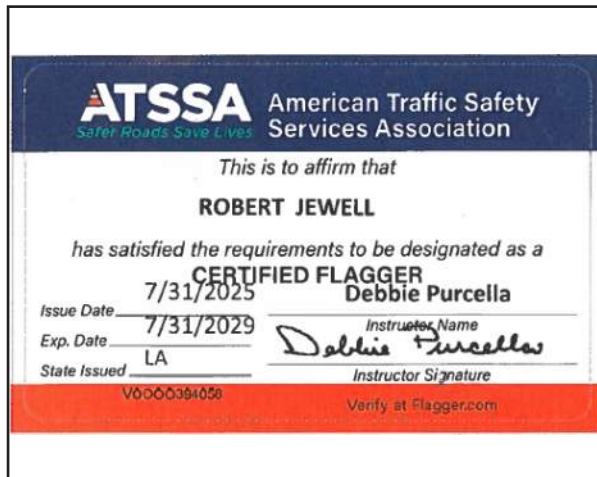
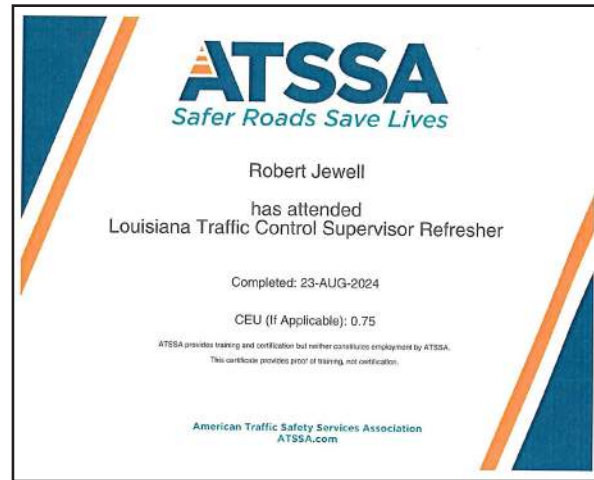
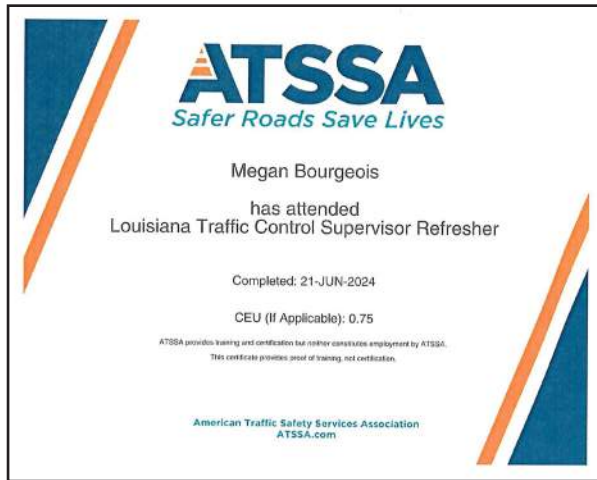
### Mailing Address

PO BOX 14269  
BATON ROUGE, LA 70898

### Status

**Status:** Active  
**Annual Report Status:** In Good Standing  
**File Date:** 8/24/2015  
**Last Report Filed:** 7/28/2026  
**Type:** Limited Liability Company

## 20. CERTIFICATIONS/LICENSES:



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225.932.5314 (Corporations)  
225.932.5318 (UCC)

| Name                       | Type                                 | City    | Status |
|----------------------------|--------------------------------------|---------|--------|
| ARDAMAN & ASSOCIATES, INC. | Business Corporation (Non-Louisiana) | ORLANDO | Active |

### Previous Names

**Business:** ARDAMAN & ASSOCIATES, INC.  
**Charter Number:** 34396031F  
**Registration Date:** 12/13/1991  
**Domicile Address**

8008 SOUTH ORANGE AVENUE  
ORLANDO, FL 32809

### Mailing Address

3475 E. FOOTHILL BLVD.  
PASADENA, CA 91107

### Principal Business Office

8008 SOUTH ORANGE AVENUE  
ORLANDO, FL 32809

### Registered Office in Louisiana

3867 PLAZA TOWER DR.  
BATON ROUGE, LA 70816

### Principal Business Establishment in Louisiana

316 HIGHLANDIA DR.  
BATON ROUGE, LA 70816

## Status

**Status:** Active  
**Annual Report Status:** In Good Standing  
**Qualified:** 12/13/1991  
**Last Report Filed:** 11/13/2025  
**Type:** Business Corporation (Non-Louisiana)

## 20. CERTIFICATIONS/LICENSES:



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

| Name                         | Type                                 | City       | Status |
|------------------------------|--------------------------------------|------------|--------|
| ALTA PLANNING + DESIGN, INC. | Business Corporation (Non-Louisiana) | SACRAMENTO | Active |

### Previous Names

**Business:** ALTA PLANNING + DESIGN, INC.  
**Charter Number:** 41995918F  
**Registration Date:** 8/25/2015  
**Domicile Address**

2710 GATEWAY OAKS DRIVE  
SUITE 150N  
SACRAMENTO, CA 958333505

### Mailing Address

101 SW MAIN ST.  
SUITE 2000  
PORTLAND, OR 97204

### Principal Business Office

101 SW MAIN ST.  
SUITE 2000  
PORTLAND, OR 97204

### Registered Office in Louisiana

450 LAUREL STREET, 8TH FLOOR  
BATON ROUGE, LA 70801

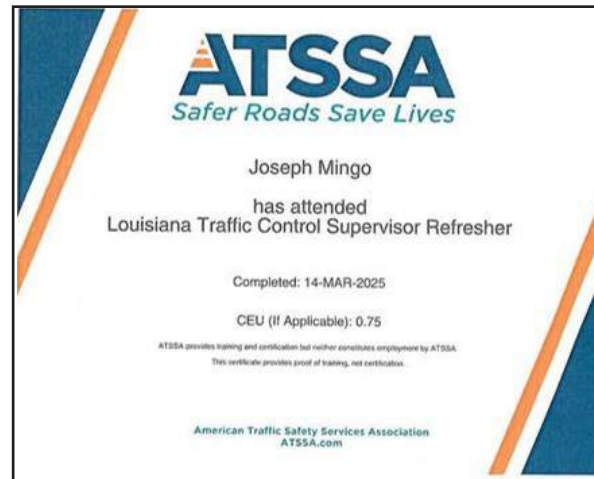
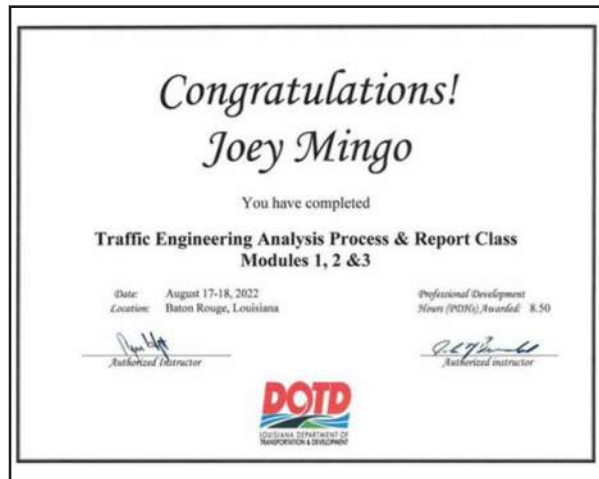
### Principal Business Establishment in Louisiana

450 LAUREL STREET  
8TH FLOOR  
BATON ROUGE, LA 70801

### Status

**Status:** Active  
**Annual Report Status:** In Good Standing  
**Qualified:** 8/25/2015  
**Last Report Filed:** 7/28/2026  
**Type:** Business Corporation (Non-Louisiana)

## 20. CERTIFICATIONS/LICENSES:



## 20. CERTIFICATIONS/LICENSES:



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Secretary of  
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**COMMERCIAL DIVISION**  
**225.925.4704**

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

| Name               | Type                                 | City | Status |
|--------------------|--------------------------------------|------|--------|
| BUCHART HORN, INC. | Business Corporation (Non-Louisiana) | YORK | Active |

### Previous Names

BUCHART-HORN, INC. (Changed: 8/18/2023)

**Business:** BUCHART HORN, INC.

**Charter Number:** 34387362F

**Registration Date:** 8/27/1991

### Domicile Address

445 W. PHILADELPHIA ST.  
YORK, PA 17401

### Mailing Address

445 W. PHILADELPHIA ST.  
YORK, PA 17401

### Principal Business Office

445 W. PHILADELPHIA ST.  
YORK, PA 17401

### Registered Office in Louisiana

4459B BLUEBONNET BLVD.  
BATON ROUGE, LA 70809

### Principal Business Establishment in Louisiana

4459B BLUEBONNET BLVD  
BATON ROUGE, LA 70809

## Status

**Status:** Active

**Annual Report Status:** In Good Standing

**Qualified:** 8/27/1991

**Last Report Filed:** 7/28/2026

**Type:** Business Corporation (Non-Louisiana)

## 21. QA/QC PLAN:

If the advertisement requires submission of QA/QC plan, include it here. Otherwise, leave this section blank.

### **Waggoner Engineering, Inc.**

*Quality Assurance/Quality Control Plan for Bridge Design Projects*

## **Contract for LA 384 (Big Lake Rd to McNeese Street) Route: LA 384, Calcasieu Parish**

Contract No. 4400035806 | State Project No. H.011242.5 | Federal Project No. H011242

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

August 2026

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## I. Introduction

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

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

This document establishes the minimum requirements for the Quality Control (QC) and Quality Assurance (QA) for all LADOTD bridge design projects, with specific references to this project.

Waggoner is fully responsible for the QC/QA of our work, and the work of all subconsultants. All subconsultants are to adhere to these guidelines also.

**LADOTD is not responsible for performing QC/QA of Waggoner's or their subconsultants' work.**

## II. References

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

## III. Definitions

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

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

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

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

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

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

Engineer of Record - An individual responsible for all bridge structural aspects of the design of the structure including the design of all of the bridge's systems and components. The EOR must be licensed by the State of Louisiana as a professional engineer and must have commensurate experience in the design of similar structures. The EOR can be the designer, the design checker, the reviewer, or the supervisor/team leader who is directly involved in the project development. The Engineer of Record normally seals and signs the final contract plans and specifications.

| Area               | Role                                 | Team Member              | Responsible For                                                                                                                                                                                                                                                                                                       |
|--------------------|--------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Project Management | Project Manager/<br>Point of Contact | Alex Farr, PE            | Determining appropriate staff to assign work. Overall project delivery in conformance with established scope, schedule, and budget.                                                                                                                                                                                   |
| Bridge Design      | Designer                             | Joshua Gonya, PE         | Design of structural elements that are not covered by existing LADOTD standard details.                                                                                                                                                                                                                               |
|                    | Checker                              | Leah Bourg, EI           | In-depth check of the designer's calculations and plans. Independent or review designer's calculations.                                                                                                                                                                                                               |
|                    | QA Review                            | Andrew Windmann, PE      | Confirms that all calculations and plans have corresponding documents and that these documents were adequately checked in conformance with Waggoner's and LADOTD's QA/QC policies. Performs high-level review for project biddability and constructability and ensures any identified modifications are incorporated. |
| Bridge Hydraulics  | Designer                             | Steven Gilliam, PE       | Creation of hydraulic model for unrestricted, existing, and proposed crossings at the body of water. Creation of report summarizing hydraulic data and requirements along with any scour analysis and mitigation.                                                                                                     |
|                    | Checker                              | Charlotte Gremillion, PE | In-depth check of the HEC model(s) and hydraulics report. Ensures analysis was performed in conformance with LADOTD Off-System Bridge Hydraulics Manual and other governing FHWA Circulars as specified by AASHTO.                                                                                                    |
|                    | QA Review                            | Bryan Harmon, PE         | Confirms the hydraulic analysis and report following Waggoner's internal QA/QC procedures and that plans match the report.                                                                                                                                                                                            |
| Roadway & Drainage | Designer                             | Kelsie Bankston, PE      | Design of proposed/adopted roadway and bridge geometry, established design typical sections and limits of construction, determines roadway drainage needs and provides adequate open or closed drainage systems to ensure adverse affects are avoided or minimized.                                                   |
|                    | Checker                              | Alex Farr, PE            | In-depth check of the designer's use of correct minimum guidelines, horizontal and vertical geometries, and drainage calculations.                                                                                                                                                                                    |
|                    | QA Review                            | Brent Waguespack, PE     | Confirms that all decisions made have justification and back-up. Ensures full QA/QC process is performed and adhered to. Performs high-level review for project biddability and constructability along with any fatal flaws in the design and construction plans.                                                     |

#### IV. Project Procedure

##### A. Development of Project Design Criteria

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

## B. Design Process

During the design process, the designer must follow the design criteria established for the project. A bridge type, size and location (TS&L) study must be developed first and approved by the supervisor or team leader prior to proceeding with the design of structural components. The design calculations shall be organized and maintained in a standard calculation book format.

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

## C. Checking Process

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

During the design check process, the design checker must verify the accuracy of the designer's calculations, pay items, quantities, special provisions including Non-Standard items, and cost estimate. Regardless of the checking method employed, the designer's calculations are the calculations of record and must be updated to correct any errors or omissions discovered by the design checker. The design checker should also ensure that the drawings adequately and accurately present the design information.

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

|                                                             |             |
|-------------------------------------------------------------|-------------|
| No: _____                                                   | Date: _____ |
| <b>CHECK PRINT</b>                                          |             |
| <b>Dwg. Checked against calcs. And calc check confirmed</b> |             |
| by: _____                                                   | Date: _____ |
| Checked: _____                                              | Date: _____ |
| Backchecked: _____                                          | Date: _____ |
| Corrected: _____                                            | Date: _____ |
| Verified: _____                                             | Date: _____ |

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

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

- The checking of calculations shall be on a copy of the original and shall be retained with the original. After all corrections have been made, the checker shall sign the original. The checker shall sign every page of the calculations to ensure that pages are not added to the end of what he checked. No erasing is permitted after the checker has signed the original calculations.
- Checker is to show all additions or changes (noted in red) in sufficient detail for a draftsman's complete understanding. Avoid verbal instructions. Checker should initial and date each drawing as it is checked.
- If reasons for errors are not clearly apparent, consult draftsman before making change.
- Various checklists (both department and client) exist and should be used where applicable.
- To minimize the number of marked-up drawings being circulated, only the stick file or a clearly designated "Check Print" set should be used for corrections.
- The checker of both the calculations and the drawings should compare the two. They must match.
- After drawings have been checked, notify disciplines concerned, of additional requirements, omissions, or changes.
- After checking is completed the check print should be returned to the original designer for his/her back-check and pick-ups. The original designer shall initial and date each sheet as back-checked.
- Any markups not completely addressed shall be indicated and discussed with Checker before the Back-Check print is returned.

- After Back-Check pickups are made, the drawings should be returned to the checker for final review. The CAD technician shall initial and date each sheet as corrected. After a final review, the checker shall initial and date each sheet as verified.
- All changes or approvals to checked design package shall be color coded as described in the Waggoner drafting standards. Below is a list of colors and intent for use:

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

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

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

#### D. Quality Assurance/Review Process

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

During quality assurance process, the reviewer shall perform a cursory review of all documents in the QA information package submitted by the designer. This review should focus on the constructability of the plan details; areas of critical structural importance; areas where, based on the reviewer's experience, mistakes may be typically found; and areas that may be new to the design practice. The reviewer may, but need not, produce independent calculations to verify submitted information. The reviewer shall provide feedback to the designer and resolve all issues. The QA process shall be completed no later than the 98% final plans stage. At this point, the QC/QA certification (included in Appendix) shall be signed by the designer, design checker, detailer, detail checker, and reviewer.

#### E. Responsibilities of the EOR

- Ensure the QC/QA certification is signed by all responsible parties. Ensure the geotechnical design information shown on bridge plans is co-stamped by a Geotechnical Engineer and the hydraulic information shown on bridge plans is co-stamped by a Hydraulic Engineer.
- Assemble design calculations from all designers, finalize the calculation book, and seal the cover sheet of the calculation book.
- Ensure the names of the designer, design checker, detailer, detail checker, and reviewer are correctly shown on the title block of each plan sheet. Stamp all plan sheets or designate a designer, design checker, or reviewer who shall be licensed by the State of Louisiana as a professional engineer to stamp the sheets developed under their supervision. The EOR must stamp the general note sheets.
- Ensure all special provisions are accurately shown on the construction proposal. The special provisions are typically stamped by the Specification Engineer as part of the construction proposal; however, if the Specification Engineer is not qualified or not willing to stamp the special provisions, the EOR must stamp these provisions.

## F. Responsibilities of the LADOTD Bridge Task Manager:

The LADOTD bridge task manager will participate in the following:

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

## V. Plan Development

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

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

## Appendix

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

## **Appendix Design Criteria Checklist**

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

### **Cover sheet**

The following information must be included on the cover sheet:

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

### **Governing Design and Construction Specifications and Other References**

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

### **Design Assumptions and Design Exceptions**

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

### **General Information**

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

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

### **Hydraulic Design Criteria**

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

### **Design Factors**

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

### **Design Loads**

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

### **Limit States**

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

**Bridge Barrier**

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

**Guardrail**

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

**Approach Slab**

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

**Deck and Deck Drainage**

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

**Bearing**

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

**Joint**

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

**Superstructure**

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

**Substructure**

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

**Piles and Drilled Shafts**

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

**Geotechnical Design**

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

**Mechanical Design**

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

**Electrical Design**

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

**As-Designed Bridge Rating Criteria**

All as-designed bridge rating criteria shall be included in this section.

**Software**

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

**Appendix**  
**QA Information Package**  
**Checklist**

Project No:  
Project Description:

\_\_\_ Calculation Book

\_\_\_ Plans

\_\_\_ Special Provisions

\_\_\_ Cost Estimates

\_\_\_ Other Documents \_\_\_\_\_

**Appendix**  
**Consultant Submittal QA/QC Certification**

Project No:  
Project Description:

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

\_\_\_\_\_  
Submittal Description

\_\_\_\_\_  
Supervisor or Team Leader Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

## 22. SUB-CONSULTANT INFORMATION:

| Firm Name<br>(Name must match <u>exactly</u> as registered with Louisiana's Secretary of State (SOS): <u>including punctuation, include screenshot(s) from SOS at the end of Section 20</u> ) | Address                                                 | Point of Contact and Email Address                                                        | Phone Number |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------|
| <br><b>Vectura Consulting Services, LLC</b>                                                                  | 4467 Bluebonnet Blvd., Suite A<br>Baton Rouge, LA 70809 | Sheelagh Brin Ferlito, PE, PTOE<br>Partner<br>bferlito@vecturacs.com                      | 225.223.6685 |
| <br><b>Ardaman &amp; Associates, Inc.</b>                                                                    | 316 Highland Drive<br>Baton Rouge, LA 70810             | Robert Jewell, PE<br>Vice President<br>rjewell@ardaman.com                                | 225.666.4598 |
| <br><b>Alta Planning + Design, Inc.</b>                                                                      | 999 Peachtree Street NE, Suite 575<br>Atlanta, GA 30309 | Cassie Nichols, PLA, ASLA<br>Associate Landscape Architect II<br>cassienichols@altago.com | 704.972.8492 |
| <br><b>Buchart Horn, Inc.</b>                                                                               | 17250 Jefferson Highway<br>Baton Rouge, LA 70817        | Dan Magri, PE<br>Director of Marketing<br>dmagri@bucharthorn.com                          | 225.224.5248 |

## 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.**



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

