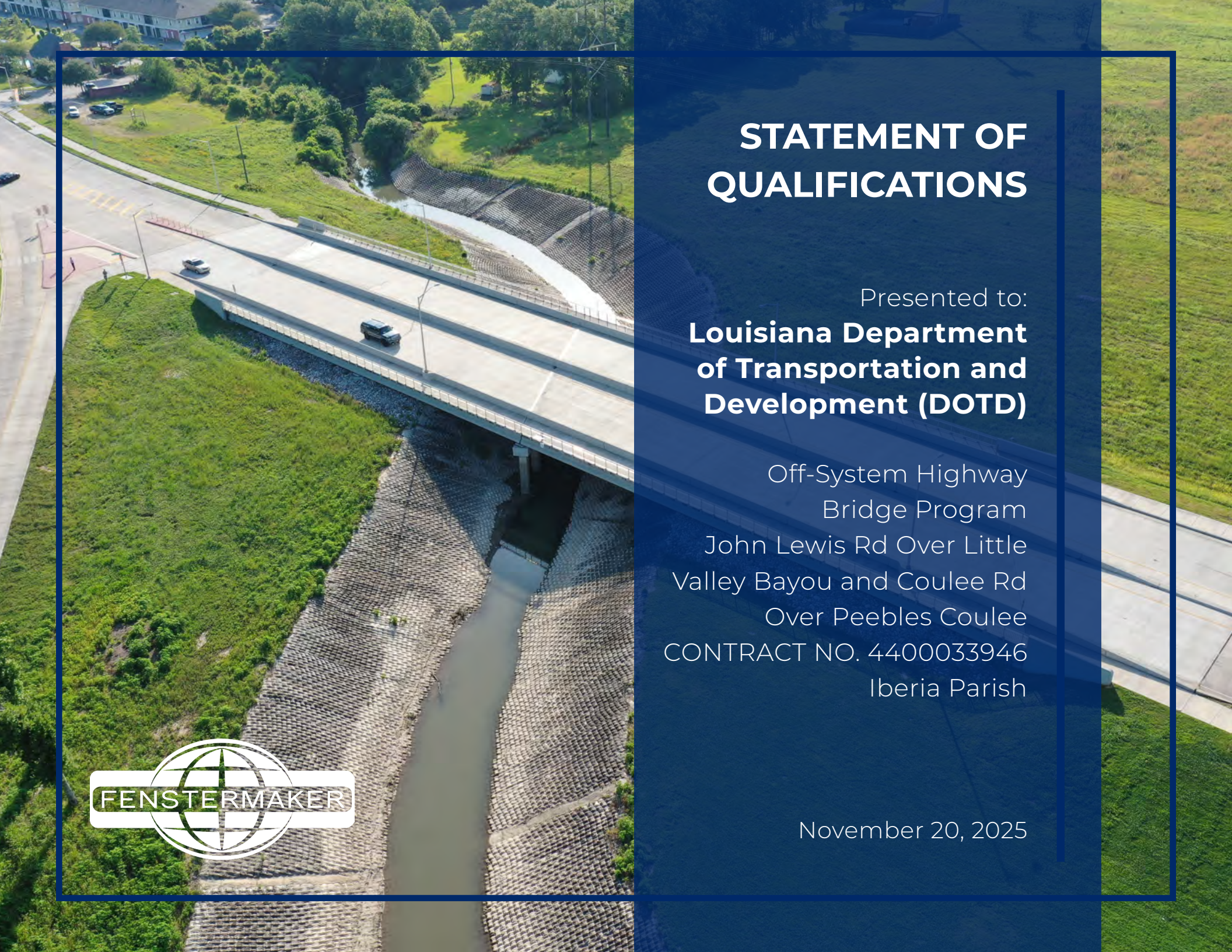


STATEMENT OF QUALIFICATIONS

Presented to:

Louisiana Department of Transportation and Development (DOTD)

Off-System Highway Bridge Program
John Lewis Rd Over Little Valley Bayou and Coulee Rd Over Peebles Coulee
CONTRACT NO. 4400033946
Iberia Parish

November 20, 2025

FENSTERMAKER

Transmitted via Email
DOTDConsultantAds80@la.gov

November 20, 2025

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

RE: Contract No. 4400033946 State Project Nos. H.016277.5 and H.016369.5 Off-System Highway Bridge Program John Lewis Rd over Little Valley Bayou and Coulee Rd over Peebles Coulee Iberia Parish

Dear Sir or Madam:

C. H. Fenstermaker & Associates, L.L.C. is pleased to submit our statement of qualifications for the Louisiana Department of Transportation and Development's Off-System Highway Bridge Program contract for the replacement of the John Lewis Road bridge over Little Valley Bayou and the Coulee Road bridge over Peebles Coulee in Iberia Parish. Fenstermaker has successfully delivered numerous off-system bridge replacement projects across Louisiana for both LADOTD and local government clients, including a recent OSBR bundle in Districts 03. Our bridge design and hydraulics teams have particular strength in low-water crossings, bayou and coulee environments, wetland permitting, and FHWA-compliant deliverables, exactly the expertise required for these two Iberia Parish structures.

The proposed **Principal, Dax Douet, P.E.,** serves as Fenstermaker's Director of Engineering and meets all three engineering MPRs (1–3). **Rhett Hebert, P.E., CFM, will serve as the Project Manager.** Rhett is currently serving as the project manager for Fenstermaker's **LADOTD IIJA Off-System Bridge Program project in District 03**. He will be supported by a deep bench of Louisiana-registered civil/bridge engineers, two professional land surveyors with decades of route survey experience, and two in-house wetland scientists with extensive Corps-permitted delineation experience in Iberia and surrounding parishes. Ardaman Associates, Inc., will provide geotechnical engineering services.

We appreciate the opportunity to submit our qualifications for this project. Fenstermaker is ready to immediately mobilize and deliver these two bridges on schedule and within budget. If you have any questions regarding our submittal, please contact Dax Douet at (337) 237-2200. Angelle Guilbeau is authorized by Fenstermaker to contractually obligate the firm.

FENSTERMAKER

Dax Douet, P.E.
Director, Engineering
dax@fenstermaker.com

Angelle Guilbeau
Chief Administrative Officer
angelleg@fenstermaker.com

SECTIONS 1 - 13

FENSTERMAKER

DOTD FORM: 24-102

(Revised August 11, 2025)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

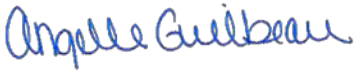
Prime consultant shall complete the DOTD Form 24-102 without altering the Form's text; however, the instruction and/or guidance for Sections 12 through 23 can be removed but do not remove Section title and number.

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

1. Contract Name as shown in the advertisement	OFF-SYSTEM HIGHWAY BRIDGE PROGRAM JOHN LEWIS RD OVER LITTLE VALLEY BAYOU AND COULEE RD OVER PEEBLES COULEE IBERIA PARISH
2. Contract Number(s) as shown in the advertisement	CONTRACT NO. 4400033946
3. State Project Number(s), if shown in the advertisement	STATE PROJECT NOS. H.016277.5 AND H.016369.5
4. Prime consultant name **(name must match exactly as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)**	C. H. Fenstermaker & Associates, L.L.C.
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	LA EF.0000311 (Engineering) LA VF.0000154 (Survey)
6. Prime consultant mailing address	P.O. Box 52106 Lafayette, LA 70505
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	135 Regency Square Lafayette, LA 70508
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Dax Douet, P.E., Director, Engineer (337) 237-2200 dax@fenstermaker.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Angelle Guilbeau, Chief Administrative Officer (337) 237-2200 angelleg@fenstermaker.com

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.

Pursuant to Act No. 581 of the 2024 Louisiana Legislature Regular Session, proposer further certifies that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association based solely on the entity's or association's status as a firearm entity or firearm trade association. In addition, proposer certifies it will not discriminate against a firearm entity or firearm trade association during the term of the contract based solely on the entity's or association's status as a firearm entity or firearm trade association.



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

November 20, 2025

Date:

11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.

Firm(s):	Firm(s)' %:
No DBE goal	

12. Discipline Table:

Discipline(s)	% of Overall Contract	Prime - C. H. Fenstermaker & Associates, L.L.C.	Firm B – Ardaman & Associates, Inc.	Firm C	Firm D	Firm E	Each Discipline must total to 100%
Bridge	50	100					**100%**
Survey	10	100					**100%**
Other (Hydraulics)	20	100					**100%**
Environmental	5	100					**100%**
Geotech	15		100				**100%**
Identify the percentage of work for the **overall contract** to be performed by the prime consultant and each sub-consultant.							
Percent of Contract	**100%**	85%	15%				

13. Team Size:

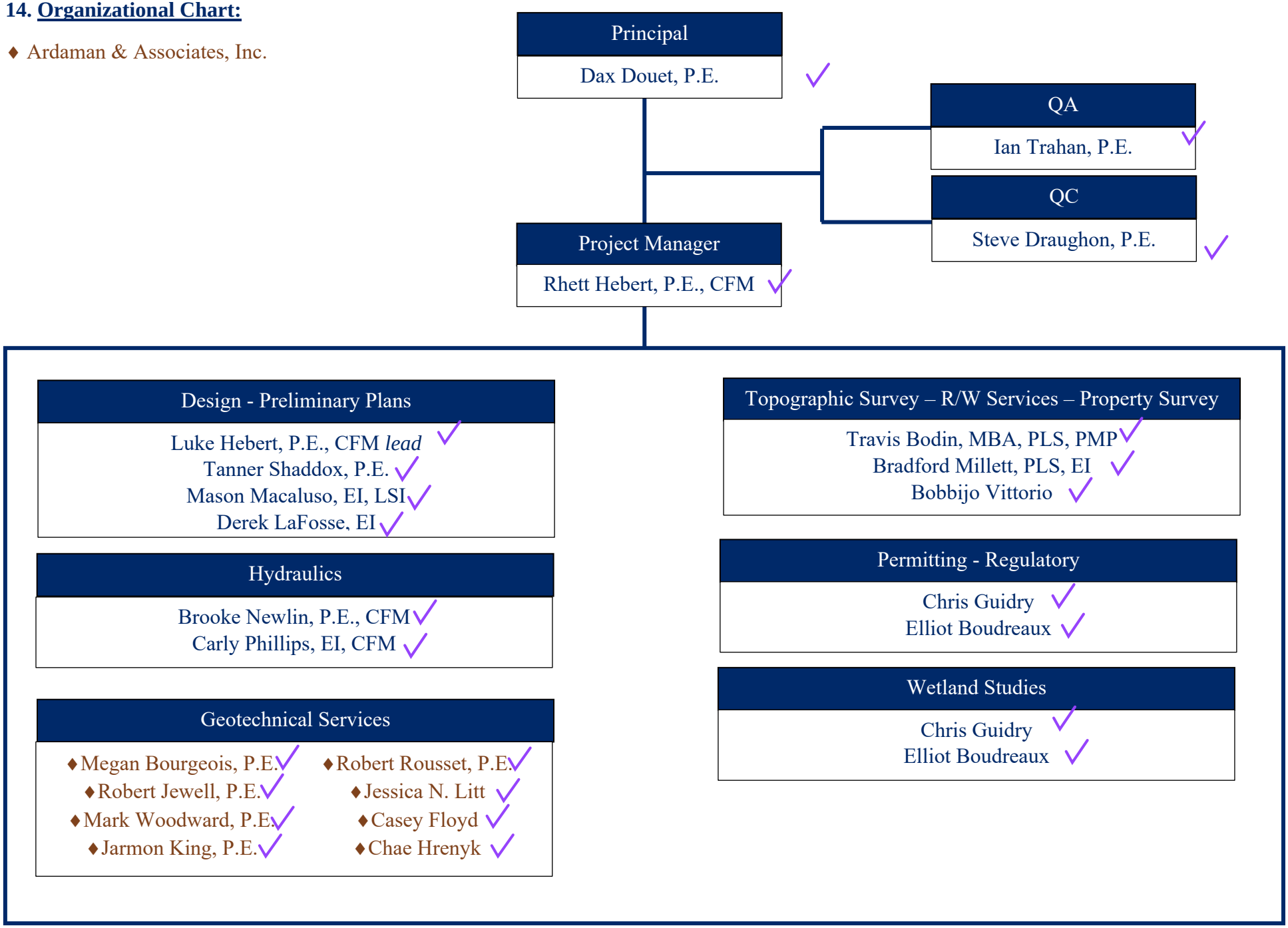
Firm name	DOTD Job Classification	**Number of personnel committed to this contract**	Total number of personnel available in this DOTD Job Classification (if needed)
C. H. Fenstermaker & Associates, L.L.C.	Principal	1	4
C. H. Fenstermaker & Associates, L.L.C.	Supervisor - Eng	1	4
C. H. Fenstermaker & Associates, L.L.C.	Engineer	6	16
C. H. Fenstermaker & Associates, L.L.C.	Engineer Intern	3	12
C. H. Fenstermaker & Associates, L.L.C.	CADD Technician	2	6
C. H. Fenstermaker & Associates, L.L.C.	Surveyor	2	12
C. H. Fenstermaker & Associates, L.L.C.	Environmental Pro	1	9
C. H. Fenstermaker & Associates, L.L.C.	Party Chief	1	14
C. H. Fenstermaker & Associates, L.L.C.	Rodman	1	3
C. H. Fenstermaker & Associates, L.L.C.	Instrument Man	1	10
Ardaman & Associates, Inc.	Administrative	1	1
Ardaman & Associates, Inc.	CADD Technician	2	2
Ardaman & Associates, Inc.	Clerical	1	2
Ardaman & Associates, Inc.	Engineer	1	6
Ardaman & Associates, Inc.	Engineer Intern	3	6
Ardaman & Associates, Inc.	Principal	2	3
Ardaman & Associates, Inc.	Senior Technician	8	9
Ardaman & Associates, Inc.	Supervisor - Eng	9	3
Ardaman & Associates, Inc.	Supervisor - Other	9	4
Ardaman & Associates, Inc.	Technician	11	15

SECTIONS 14 - 16

FENSTERMAKER

14. Organizational Chart:

♦ Ardaman & Associates, Inc.



15. Minimum Personnel Requirements:

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	**Dax Douet, P.E.**	**C. H. Fenstermaker & Associates, L.L.C.**	**PE.0030170 – Civil Engineer**	**LA**	**09/30/2026**
2	**Dax Douet, P.E.**	**C. H. Fenstermaker & Associates, L.L.C.**	**PE.0030170 – Civil Engineer**	**LA**	**09/30/2026**
	Rhett Hebert, P.E., CFM	C. H. Fenstermaker & Associates, L.L.C.	PE.0049084 – Civil Engineer	LA	09/30/2026
	Luke Hebert, P.E., CFM	C. H. Fenstermaker & Associates, L.L.C.	PE.0034715 – Civil Engineer	LA	09/30/2027
	Brooke Newlin, P.E., CFM	C. H. Fenstermaker & Associates, L.L.C.	PE.0047837 – Civil Engineer	LA	09/30/2027
	Ian Trahan, P.E.	C. H. Fenstermaker & Associates, L.L.C.	PE.0031410 – Civil Engineer	LA	03/31/2027
	Steve Draughon, P.E.	C. H. Fenstermaker & Associates, L.L.C.	PE.0024623 – Civil Engineer	LA	09/30/2026
3	Dax Douet, P.E.	C. H. Fenstermaker & Associates, L.L.C.	PE.0030170 – Civil Engineer	LA	09/30/2026
	Luke Hebert, P.E., CFM	**C. H. Fenstermaker & Associates, L.L.C.**	**PE.0034715 – Civil Engineer**	**LA**	**09/30/2027**
4	**Travis Bodin, MBA, PLS, PMP**	**C. H. Fenstermaker & Associates, L.L.C.**	**PLS.0005067**	**LA**	**03/31/2026**
	Bradford Millett, PLS, EI	C. H. Fenstermaker & Associates, L.L.C.	PLS.0005245	LA	03/31/2027
5	**Chris Guidry**	**C. H. Fenstermaker & Associates, L.L.C.**	**See resumé - 16+ yrs experience with wetland delineations in Louisiana**	**N/A**	**Not applicable**
	Elliot Boudreaux	C. H. Fenstermaker & Associates, L.L.C.	See resumé - 5+ yrs experience with wetland delineations in Louisiana	N/A	Not applicable

16. Staff Experience:

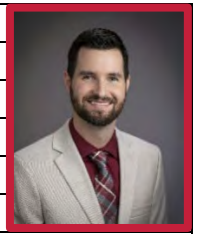
Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**			
Name	Dax Douet, PE	Years of relevant experience with this employer	28	
Title	Engineering Director	Years of relevant experience with other employer(s)	1	
Degree(s) / Years / Specialization		B.S. / 1997 / Civil Engineering		
Active registration number / state / expiration date		PE.0030170 / LA / 06-30-26		
Year registered	2002	Discipline	Civil	
Contract role(s) / brief description of responsibilities		Principal. **Mr. Douet satisfies MPR No. 1, No. 2, and No. 3.**		

Dax Douet is an Engineering Director at Fenstermaker with extensive professional civil engineering experience in design, planning, construction oversight, and project management. He has served as the lead design engineer and project manager on a wide range of transportation projects including local, collector, and arterial roadways, as well as large interstate interchange projects. Mr. Douet has expertise in roadway design, transportation corridor studies, line and grade studies, roundabout design, environmental assessments, open channel and subsurface drainage systems, large one and two-dimensional hydrologic numerical modeling, municipal engineering, public speaking, and project management of large complex, multi-disciplinary projects.

04/07-11/20	**Cane River Bridge Church Street Route LA 1-X (Natchitoches Parish, LA)** LADOTD in conjunction with the FHWA prepared a NEPA environmental assessment for the proposed replacement of Cane River Bridge on Church Street Route LA 1-X. Mr. Douet served as the project manager and lead engineer for preparation of the environmental document. He was responsible for all public outreach, agency coordination, preparation of the project line and grade study, coordination of the project's traffic study, development of project alternatives, development of cost estimates, coordination of the noise and air analysis, coordination of historical and archeological investigations, and coordination of various other environmental analysis.
05/13-09/19	**US 90 (I-49 South) Albertson Parkway to Ambassador Caffery Design-Build (Lafayette Parish, LA)** Under the Design-Build Contractor, James Construction Group, Mr. Douet was the Lead Design Manager for the preparation of all engineering design components of the proposed upgrading of a portion of US 90 to a 6-lane controlled access facility to also include improvements to the existing east and westbound frontage road system, construction of a new 6-lane US 90 **overpass structure** over both Albertson Parkway and the existing BNSF railroad facility, and construction of all associated US 90 mainline ramps needed to connect these overpass structures and frontage roads. In this role, Mr. Douet was involved directly in every aspect of the design to include roadway, drainage, traffic, and bridge design as well as the design of Mechanically Stabilized Earth Walls (MSEW) needed to construct the US 90 mainline improvements within existing right of way. In this capacity, he was required to also review all construction related Request for Information to ensure that all responses meet the expectations of LADOTD. Mr. Douet was the Engineer of Record for the final design and construction plans for Phase III of the project's roadway and drainage improvements to include developing calculations, meeting design code, development of design exceptions, and coordination of all QA reviews. Mr. Douet was also directly responsible for the management of four engineering sub-consultants on the design-build team to ensure that all design components met the overall goals and expectations of the project.

11/13-06/15	**Sasol LCCP-Heavy Haul Road (LA378 & LA379) (Calcasieu Parish, LA)** Mr. Douet was part of the design team for LADOTD Permit No. 153198, 153357, 153587, a $12.9 million contract with Fluor for the Sasol LCCP-Heavy Haul Road Engineering and Construction project in Calcasieu Parish, LA. He served as a Senior Design Engineer and aided in the technical analysis, determining geometric modifications necessary for the existing roadway corridor to accommodate oversized modules, and ensuring overall safety for the traveling public. Mr. Douet also aided in the development of roadway construction plans, including designing the sub-surface drainage system and performing quality control of all plan submittals. His analysis determined areas where the roadway corridor needed to be widened to provide for the turning radii of the specialized transport modules.
09/17-ongoing	**Verot School Road Interchange at U.S. Highway 90 (Lafayette Parish, LA)** Mr. Douet was the Lead Design Engineer responsible for the widening of existing Verot School Road from Pinhook Road (LA 182) to existing US 90 from a 2-lane to a median separated 4-lane roadway facility. Mr. Douet was one of two lead design engineers responsible for the development of a project line and grade study aimed at developing strategies to widen this corridor to reduce right of way and impacts to existing infrastructure. Mr. Douet was also the lead design engineer of a multi-lane roundabout intersection at the new Verot School Rd intersection with South College Rd. In addition, Mr. Douet led the public outreach by coordinating and hosting a public meeting which followed the procedures set forth by the LADOTD.
10/20-ongoing	**Louisiana Watershed Initiative Region 4 (De Soto, Sabine, Vernon, Rapides, Beauregard, Allen, Jefferson Davis, Calcasieu, and Cameron Parishes)** Mr. Douet served as one of the Project Managers for the Louisiana Watershed Initiative Region 4 modeling project, an unprecedented project that will manage the future flood risk in the State of Louisiana through watershed-based solutions. Mr. Douet was responsible for the project management and oversight to complete an interactive, usable, and manageable hydraulic and hydrologic model of Region 4.
10/21-12/22	**LA 675 Roundabout at ARA Access Roadway (Iberia Parish, LA)** Fenstermaker prepared construction plans and acquisition documents for the LA 675 Roundabout at Acadiana Airport Access Roadway in Iberia Parish. The ARA Access Road will be extended to the south to connect to LA 675. The roundabout will be constructed at this connection. Reconstruction of the US Frontage Road will also be completed. After receiving LADOTD's comments on the plans, Mr. Douet reviewed and performed quality control on the plan set.
04/22-ongoing	**LA 182 (UNIV) @ LA 723 (Renaud) Roundabout (Lafayette Parish, LA)** LADOTD selected Fenstermaker to provide roadway design, hydraulic analysis, and utility design for a roundabout realigning Renaud Drive and Stone Avenue to improve traffic flow and reduce congestion at University Avenue, addressing average daily traffic volumes of over 3,300 vehicles. Mr. Douet is serving as the project manager and has worked closely with the deputy project manager to oversee all project tasks and report progress to LADOTD.

16. Staff Experience:

Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**			
Name	Rhett Hebert, PE, CFM	Years of relevant experience with this employer	5	
Title	Engineering Manager	Years of relevant experience with other employer(s)	1	
Degree(s) / Years / Specialization		B.S. / 2020 / Civil Engineering		
Active registration number / state / expiration date		PE.0049084 / LA / 09-30-26		
Year registered	2024	Discipline	Civil	
Contract role(s) / brief description of responsibilities		Project Manager. **Mr. Hebert satisfies MPR No. 2.**		

Rhett Hebert, P.E., CFM is a licensed Professional Engineer with specialization and expertise in drainage design. He has been involved in the development and analyses of both small and large-scale hydrologic and hydraulic numerical models, design of drainage systems, benefit-cost-analyses (BCAs) and grant funding applications. He is proficient in the use of HEC-HMS, HEC-RAS, Hydro CAD, ArcGIS, and LADOTD's hydraulic programs. **As the project manager for Fenstermaker's LADOTD IIJA Off-System Bridge Program project, Mr. Hebert has also gained experience in bridge design work. He has used his previous hydrologic and hydraulic modeling and drainage design system work to assess and develop plans for 14 bridges within District 03.**

11/22-ongoing	**Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 (Acadia, Evangeline, Iberia, Lafayette, St. Landry, St. Martin, St. Mary, and Vermilion Parishes, LA)** **The Louisiana Department of Transportation and Development** selected Fenstermaker to provide all necessary engineering services required for development plans for the replacement of **14 bridges in District 03**. Fenstermaker's services include the engineering design of each bridge and all other required services, including H&H modeling, no-rise analyses, scour analyses, surveying, and permitting. Mr. Hebert is currently serving as the project manager and is overseeing and working on several tasks for each bridge concurrently. These tasks include performing the H&H modeling for all 14 bridges and preparing the H&H reports, conducting any needed no-rise or scour analyses, designing roadway and drainage elements, and reviewing plan sets. He has also assisted with permit applications, including those for USACE. As the project manager, he is Fenstermaker's point of contact with LADOTD and other stakeholders within the district and provides reports on the project's progress.
04/20-ongoing	**Louisiana Watershed Initiative Region 4 (De Soto, Sabine, Vernon, Rapides, Beauregard, Allen, Jefferson Davis, Calcasieu, and Cameron Parishes)** The Louisiana Watershed Initiative is an unprecedented project that will manage the future flood risk in the State of Louisiana through watershed-based solutions. For Region 4, Fenstermaker is performing hydrologic and hydraulic tasks, data collection, model development, and engineering to successfully complete an interactive, usable, and manageable hydraulic and hydrologic model of the region. These models will consider the degree to which communities within a watershed are hydraulically and hydrologically connected and will guide decisions regarding the coordination and implementation of land use, policy, and infrastructure improvements to effectively manage flood risk at the watershed level. Mr. Hebert led a team of engineers that developed 1D and 2D models of the West Fork and Upper Calcasieu watersheds, delineated sub basins, developed and populated structure datasheets, worked on cross sections, and modified terrain data.

06/20-10/22	**Perrin Ferry Roadway Improvements (Livingston Parish, LA)** This Hazard Mitigation Grant Program funded project involved elevating a segment of Perrin Ferry Road in Livingston Parish and ensuring adequate drainage capacity underneath the roadway. This roadway was frequently overtopped with stormwater during small rain events, which isolated members of the community at the end of this "dead-end" road. Mr. Hebert assisted in the numerical modeling of existing conditions and proposal of a new drainage structure under the roadway.
02/22-10/22	**Sasol & LyondellBasell Sasol JV Parking & Roadway Improvements (Calcasieu Parish, LA)** Fenstermaker's services include designing the conceptual parking lot layout, all existing roadway tie-ins, and preliminary erosion control measures for the proposed parking areas of the Sasol plant's West Laboratory Building, the West Maintenance Building, and the West Control Building in Westlake, Louisiana. Mr. Hebert is currently assisting in the design of approximately 6,399 linear feet of roadway inside the plant, converting from an existing aggregate roadway to an asphalt pavement roadway section. He is also providing the client with monthly on-site manhour reports and monthly budget reports. He is also coordinating surveying efforts for the project.
09/23-10/23	**First Solar Project (Iberia Parish, LA)** First Solar selected the grounds of the Acadiana Regional Airport in Iberia Parish for the location of its fifth U.S. solar panel manufacturing facility plant. The new facility will encompass more than 2 million square feet. Rudolph Libbe, Inc., the project's general contractor, tasked Fenstermaker with performing civil engineering services for the facility. The scope of services also included a total turnkey survey (topographic), environmental services (permitting), traffic impact analysis, and construction administration. Mr. Hebert worked on delineating the drainage basin, reviewing existing drainage basins, and developing a 2D HEC-RAS model to analyze a realigned channel within the project site.
11/22-12/23	**St. Mary Street Sidewalks (Lafayette Parish, LA)** The City of Scott tasked Fenstermaker with completing an ADA-compliant sidewalk network on both sides of St. Mary Street from Lions Club Road to the BNSF Railroad right-of-way. The project also includes designing subsurface drainage where needed. Mr. Hebert worked on the project's utility coordination and the drainage design. He was responsible for delineating the existing drainage basins within the project area, designing the layout of the proposed catch basins, and preparing sections of the hydraulics report.
10/22-01/25	**Old Spanish Trail Sidewalks (Lafayette Parish, LA)** The City of Scott tasked Fenstermaker with preparing plans and specifications for this sidewalk project. The project includes the design and layout of approximately 3,905 square yards of concrete sidewalks with approximately 6,940 feet of subsurface drainage. Mr. Hebert provided engineering design and construction administration services. He was responsible for the design of the sidewalk layout and subsurface drainage. He reviewed and revised plans sets and lead the utility coordination tasks. He also assisted with ROW acquisitions and construction servitudes. During construction, Mr. Hebert reviewed submittals and SITE inspection reports and oversaw the installation of **guardrails** and handrails.

16. Staff Experience:

Firm employed by	C. H. Fenstermaker & Associates, L.L.C.		
Name	Ian Trahan, PE	Years of relevant experience with this employer	6
Title	Engineering Manager	Years of relevant experience with other employer(s)	24
Degree(s) / Years / Specialization		B.S. / 1997 / Civil Engineering	
Active registration number / state / expiration date		PE.0031410/ LA / 03-31-27	
Year registered	2004	Discipline	Civil
Contract role(s) / brief description of responsibilities		Quality Assurance Manager. **Mr. Trahan satisfies MPR No. 2.**	

Ian B. Trahan, P.E., has a diverse portfolio of engineering experience that he has accumulated throughout his career. He has extensive experience managing and designing large-and-small-scale road projects, drainage projects, and master planning projects. He is currently serving as the project manager on two roadway projects in Calcasieu Parish and is currently serving as the engineer of record on a medium-scale roadway project in Iberia Parish and on a medium-scale roadway project in Lafayette Parish. He frequently provides quality assurance/quality control reviews of project plans, reports, and other needed documentation. Prior to joining Fenstermaker, Mr. Trahan served as the LADOTD program manager for the Louisiana Watershed Initiative. Mr. Trahan has worked in both private and government sectors of the engineering industry and brings a wealth of knowledge and practical experience to Fenstermaker.

01/19-01/21	**Louisiana Watershed Initiative Statewide Modeling Program** Mr. Trahan was the program manager overseeing and managing LADOTD's statewide hydrologic and hydraulic (H&H) modeling program for the LWI, which is an effort between several state agencies to coordinate efforts to develop a new approach to reduce flood risk throughout the state. He was also tasked with managing regional modeling consultant contracts and task orders associated with LWI/DOTD statewide hydrologic and hydraulic modeling program and associated topographic and bathymetric surveying. Defined project task order scope and goals while predicted resources needed to reach objectives and manage those resources in an effective and efficient manner. He prepared budgets based on task order scope of work. He developed and managed detailed project schedules and associated Gantt charts in Microsoft Project. He provided LWI/DOTD statewide modeling updates on a consistent basis to the section head, immediate supervisor, regional steering committees, and stakeholders. Reviewed flood mitigation project applications received through the LWI. He participated as a member of the LWI Working Group representing DOTD, Technical Advisory Groups for Data and Modeling, and the Technical Design and Quality Team. He oversaw the regional modeling consultants and the regional steering committee coordination related to regional flooding issues and mitigation efforts. Mr. Trahan Provided technical based oversight to ensure that LWI flood mitigation projects do not create additional adverse flooding impacts in the watershed. He participated in LWI project in LWI project development by reviewing plans and specifications ensure that projects follow LWI program requirements and department policies.
06/21-04/24	**Calcasieu Parish Regional Watershed Modeling and Planning (Calcasieu Parish, LA)** Fenstermaker developed an adaptive watershed master plan for the Calcasieu Parish Police Jury by updating legacy 1D models to advanced coupled 1D/2D hydrologic and hydraulic models (HEC-HMS and HEC-RAS), encompassing all watersheds within the Parish, and integrating future conditions such as sea level rise, urban development, and intensified storms. Mr. Trahan served as one of the project's managers. He was responsible for the project's overall success and communicating with the Parish on project progress.

08/21-08/22	**Louisiana Integrated PE JV LLC Parking & Roadway Improvements (Calcasieu Parish, LA)** Fenstermaker's services include designing the conceptual parking lot layout, all existing roadway tie-ins, and preliminary erosion control measures for the proposed parking areas of the Sasol plant's West Laboratory Building, the West Maintenance Building, and the West Control Building in Westlake, Louisiana. Mr. Trahan served as the project manager.
10/21-ongoing	**Old Spanish Trail and Evergreen Intersection Phase II (Calcasieu Parish, LA)** Fenstermaker provided engineering design services and construction administration and inspection for Sasol Chemicals (USA) LLC's required improvements to this intersection. The improvements included an additional dedicated turn lane. Fenstermaker's services include redesigning final plan sheets, quantities, and technical specifications, coordinating with the Parish to review and revise plans based on the Parish's updated requirements, providing construction management services throughout the project's construction phase, providing full-time inspection services during construction, and performing engineering coordination with 5 utilities companies. Mr. Trahan is serving as the project manager.
05/22-08/22	**Coach Williams Drive Extension & Roundabout (Calcasieu Parish, LA)** This project consists of the design of a $18.4M, three-mile roadway extension of Coach Williams Boulevard to connect to Houston River Rd (LA 379). The new roadway includes a two-lane open ditch typical section with a roundabout, railroad crossing, Sabine River Authority Canal crossing, and crossses multiple wetland areas and over abandoned borrow pits. Fenstermaker was responsible for the environmental assessments, drainage design, pavement design, and the geometrics of the road. Mr. Trahan was responsible for designing the Sabine River Authority Bypass channel, coordinating plans, and reviewing plan sheets.
09/22-ongoing	**Apollo Road Water and Sewer – Phase 2 (Lafayette Parish, LA)** The City of Scott contacted Fenstermaker to design and construct water, sewer, and gas main extensions. This project included the design and layout of approximately 10,100 feet of waterline. All lines were run along the Apollo Road Extension. The water main extension part of this project consisted of the installation of 5,300 feet of 12-inch water main and 2,000 feet of 8-inch water main. The sewer extension part of the project included the installation of 6,888 feet of 8-inch sewer main and 2,300 feet of 6-inch sewer main. A lift station with a wet well and a valve pit were also installed. The gas main extension of the project included the installation of 12,500 linear feet of 4" gas line and 3,800 linear feet of 2" breakers way gas lines. Mr. Trahan designed the layout of a 4" gas line, 10,763 LF in length including the valves, bends, and tie-ins. Mr. Trahan also served as one of the project managers.
11/23-ongoing	**First Solar Plant Site Development (Iberia Parish, LA)** First Solar selected the grounds of the Acadiana Regional Airport in Iberia Parish for the location of its fifth U.S. solar panel manufacturing facility plant. The new facility will encompass more than 2 million square feet. Rudolph Libbe, Inc., the project's general contractor, tasked Fenstermaker with performing civil engineering services for the facility. The scope of services also included a total turnkey survey (topographic), environmental services (permitting), traffic impact analysis, and construction administration. Mr. Trahan was the project manager for all topographic survey, civil engineering, and environmental work for the project. He coordinated with all project teams on tasks and activities and serves as the main project liaison to the client.

16. Staff Experience:

Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**			
Name	Steve Draughon, PE	Years of relevant experience with this employer	3	
Title	Director of Construction Administration	Years of relevant experience with other employer(s)	35	
Degree(s) / Years / Specialization		B.S. / 1986 / Civil Engineering		
Active registration number / state / expiration date		PE.0024623 / LA / 09-30-26		
Year registered	1992	Discipline	Civil	
Contract role(s) / brief description of responsibilities		Quality Control Manager. **Mr. Draughon satisfies MPR No. 2.**		

Steve Draughon, P.E. is the Director of Construction Administration at Fenstermaker, whose experience includes design/development, water resource, construction, and maintenance engineering. He also has experience with project planning, project management, and contract management concurrent with his previous position as LADOTD Assistant District Administrator of Engineering for District 3.

10/21-09/22	**2021 Asphalt Overlay Project (Lafayette Parish, LA)** As the City Engineer for City of Carencro, Fenstermaker has been contracted for an asphalt overlay project, located along several different roadways within the City. The City's 2021 Asphalt Overlay project consists of the milling and overlaying approximately 2.5 miles of roadway surface. Milling and overlay will take place on 20 streets within the City and pavement reconstructions were completed on St. Charles and St. Louis Streets. Mr. Draughon served as the project's Construction Administrator. He was responsible for staffing the project with appropriate inspection personnel, reviewing the progress of the contractor, preparing payment documents, and advising the City Manager on all matters concerning the project.
10/21-03/24	**Apollo Road at LA 93 (Dulles Dr) Roundabout (Lafayette Parish, LA)** This $15 million construction project includes 2.2 miles of a four-lane boulevard and 6-ft. sidewalks to accommodate both bicyclists and pedestrians. The new roadway intersects LA 90 and LA 93, which were designed for a bow-tie intersection and roundabout, respectively. Mr. Draughon provided construction administration oversight for this project.
11/21-01/22	**City of Lake Charles Sidewalk Projects (Calcasieu Parish, LA)** This project involves the design of five separate sidewalk locations along existing streets with the city of Lake Charles which includes the installation of ADA-compliant compliant paths and walkways, subsurface drainage, and retaining walls. This project dealt with identifying utility conflicts, following the Americans with Disabilities Act (ADA) current standards for walking paths, and both City of Lake Charles and DOTD engineering design guidelines. Mr. Draughon's QA/QC work on the City of Lake Charles 2019 Sidewalk Construction Project included reviewing plans and specifications, reviewing the revised plans and specifications, and preparing a report on the results of the QA/QC process.
11/21-06/23	**Kaliste Saloom Road Widening & Intersection Improvements - LA3073 to LA733 (Lafayette Parish, LA)** The project commences approximately 1,500-ft. southwest of E. Broussard Rd (LA Hwy 733) and terminates near Ambassador Caffery Pkwy (LA 3073) and includes a multi-lane modern roundabout. Fenstermaker's tasks included roundabout design, including geometrics and other roadway related design and waterline layout and design. Mr. Draughon is responsible for the project's construction administration.
04/22-ongoing	**Improvements to Duchamp Road (St. Martin Parish, LA)** The engineering team prepared roadway and drainage designs. Mr. Draughon provided construction administration services including contributing to the opinion of probable cost, working with inspectors during the construction phase, reviewing plans

	and designs for drainage and striping, reviewing submittals, reviewing Daily Time Records and Daily Work Reports, providing construction engineering support, managing payments, and overseeing change orders.
11/22-ongoing	**Spanish Trail Industrial Park Access Road (St. Martin Parish, LA)** Fenstermaker provided professional engineering and survey services to extend Lake Talon Road to LA 182 (Old Spanish Trail Highway) with an at-grade intersection in St. Martin Parish. Fenstermaker assisted the Parish with all planning efforts including preparing a traffic study, planning and coordinating with the BNSF railroad facility providing topographic survey services, preparing construction plans, preparing and submitting all required permits, and providing construction administration and inspection services. Fenstermaker managed subconsultants for traffic study and geotechnical investigation services. Mr. Draughon reviewed the preliminary and final plans, worked on the sequence of construction, addressed LADOTD's comments for project permits and plan revisions, prepared for the preconstruction meeting, and coordinated inspector duties.
02/23-ongoing	**2021 Lift Station Upgrades Phase 1 (Lafayette Parish, LA)** Fenstermaker is preparing plans and specifications and providing construction administration services for the total replacements of the existing lift station at Rue Basin (Lift Station No. 11) in Carencro, LA. The project also includes the rehabilitation of two lift stations at Moss Street (LS No. 14) and St. Anne Street (LS No. 3) and the installation of approximately 750 feet of new sewer main on Moss Street to E. Gloria Switch Road. Mr. Draughon oversaw the preconstruction meeting, responded to requests for information (RFI) from the contractor, reviewed submittals, reviewed project progress with inspectors, and prepared progress reports.
03/23-ongoing	**Roundabout-E. Broussard at Robley Drive (Lafayette Parish, LA)** Fenstermaker designed a modern multi-lane roundabout at the intersection of E. Broussard Road and Robley Drive in Lafayette Parish. Mr. Draughon provided constructability review services and worked with the design team on the sequencing of construction (SOQ).

16. Staff Experience:

Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**			
Name	Luke Hebert, PE, CFM	Years of relevant experience with this employer	21	
Title	Engineering Director	Years of relevant experience with other employer(s)	1	
Degree(s) / Years / Specialization		B.S. / 2003 / Civil Engineering		
Active registration number / state / expiration date		PE.0034715 / LA / 09-30-27		
Year registered	2009	Discipline	Civil	
Contract role(s) / brief description of responsibilities		Design – Preliminary Plans *(lead)* **Mr. Hebert satisfies MPR No. 2 and No. 3.**		

Luke Hebert is an Engineering Director at Fenstermaker with experience in engineering design, planning, and project management. During his career, Mr. Hebert has been part of many different types of designs ranging from various roadway types (i.e., local, collector, arterial and freeway), surface and sub-surface drainage systems, water and sewer distribution system and water and sewer treatment. In 2013 Mr. Hebert was appointed by the Mayor of Carencro as the engineer for the City. One of his main focuses is working with developers on new commercial and residential developments. Since 2013 Mr. Hebert has been involved with over 20 new developments located within the City of Carencro and has managed them through planning, construction, and final acceptance.

10/22-ongoing	**Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 (Acadia, Evangeline, Iberia, Lafayette, St. Landry, St. Martin, St. Mary, and Vermilion Parishes, LA)** The Louisiana Department of Transportation and Development selected Fenstermaker to provide all necessary engineering services required for development plans for the replacement of **14 bridges in District 03**. Fenstermaker's services include researching eligible structures, coordinating with local stakeholders, and selecting structures for inclusion in the IIJA Off-System Bridge Program. Mr. Hebert is serving as an engineer on the design team and has planned stakeholder meetings for Parishes within District 03. He has also assisted with preliminary and 30% design plans and bridge layouts. Mr. Hebert is also serving as Quality Control (QC) Document manager for all project work.
02/10-05/14	**South Dearborne Road Bridge Replacement over Indian Bayou (Lafayette Parish, LA)** Fenstermaker, under contract with LCG, provided all engineering and land surveying required to perform topographic surveys, hydraulic studies, drainage improvements, wetland delineation, and prepared the preliminary and final roadway and bridge plans. This project included the replacement of an 18-ft wide x 100-ft long timber bridge over Indian Bayou. Mr. Hebert served as the project manager and the lead design engineer. His work included coordinating survey tasks with the survey team, preparing and reviewing plan sets, working with geotechnical engineers on the design of the bridge piles, reviewing and revising specifications, coordinating and attending the pre-construction meeting, reviewing and responding to requests for information (RFIs) received during construction, and working with the construction contractor to execute change orders. Mr. Hebert also conducted site visits and meetings with LCG to report on the project's progress.
03/10-07/19	**Lebesque Road Bridge Replacement (Lafayette Parish, LA)** Fenstermaker was contracted by Lafayette Consolidated Government (LCG) to design the reconstruction of Lebesque Road and the replacement of the Lebesque Road bridge. Mr. Hebert served as the project manager and oversaw all project tasks. He coordinated the bridge reconstruction, roadway, and drainage design, and worked with the surveying team to coordinate all needed survey tasks. He was responsible for designing the layout of the conspan bridge structure and overseeing and

	reviewing the creation of all plan sets. Mr. Hebert conducted frequent site visits and regularly met with LCG to report on the project's progress.
03/11-02/21	**Kaliste Saloom Road Widening & Intersection Improvements - LA3073 to LA733 (Lafayette Parish, LA)** The Kaliste Saloom Road Widening is a $35 million construction project designed to be a walkable urban thoroughfare with shared bicycle lanes and 8-ft wide sidewalks in accordance with Complete Streets and Context Sensitive Solutions guidelines. Fenstermaker was responsible for the surveying, right-of-way platting, engineering design, construction plan development, and CE&I to widen Kaliste Saloom Road, an over-capacity major arterial roadway, from a 2-lane asphalt roadway to a 5-lane road with a continuous center turn-lane concrete roadway for approximately 1.7 miles. Mr. Hebert served as an engineer on this project and assisted with the roundabout design, including geometrics and other roadway related design and waterline layout and design.
05/13-10/17	**US 90 (I-49 South) Albertson Pkwy to Ambassador Caffery Design-Build (Lafayette Parish, LA)** As the Lead Roadway Design Engineer for James Construction Group's Design-Build project, Mr. Hebert played a crucial role in the transformation of a section of US 90 in Lafayette Parish into a six-lane controlled access facility. His responsibilities encompassed the design of roadway enhancements, including improvements to the east and westbound frontage road system, a new six-lane US 90 overpass spanning both Albertson Parkway and the existing BNSF railroad facility, as well as the construction of necessary US 90 mainline ramps to connect these structures and frontage roads. Mr. Hebert's contributions involved the design of horizontal and vertical roadway alignments, typical sections, sequencing of construction, geometric detailing, cross sections, erosion control, and quantity tabulation for the contractor. Furthermore, he oversaw the layout of Mechanically Stabilized Earth Walls (MSEW), concrete panels essential for keeping all US 90 mainline enhancements within the existing right of way. Mr. Hebert also oversaw the roadway drainage design which included roadside ditches, cross drains, subsurface drainage. elevated drainage layout, and design at two overpasses.
09/17-04/20	**Andre Street Bridge Replacement (Lafayette Parish, LA)** The City of Carencro contracted with Fenstermaker to prepare the plans and specifications for the Andre St. Bridge Replacement and oversight of construction. Fenstermaker also provided construction administration and inspection services. Mr. Hebert assisted with preliminary and final plans, specifications, utility engineering and construction engineering.
03/19-07/22	**Farm Road Bridges Project (Calcasieu Parish, LA)** Fenstermaker provided professional engineering services related to the replacement of two (2) timber bridges located on Farm Road between LA 397 and Manchester Road, just east of Lake Charles and southeast of the Chennault International Airport. The project's scope consisted of professional surveying, roadway and bridge design, hydrologic and hydraulic analysis, wetland delineation and USACE permitting, geotechnical investigations, load rating determination, dynamic pile monitoring and vibration monitoring services, utility coordination, right-of-way surveying, title work, right-of-way plat preparation, and construction phase services. Mr. Hebert reviewed and updated the geotechnical report and consulted on the class II base course and conspan bridge issues.

16. Staff Experience:

Firm employed by	C. H. Fenstermaker & Associates, L.L.C.		
Name	Tanner Shaddox, PE	Years of relevant experience with this employer	4
Title	Engineer	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		B.S. / 2021 / Civil Engineering	
Active registration number / state / expiration date		PE.0050708 / LA / 03-31-26	
Year registered	2025	Discipline	Civil
Contract role(s) / brief description of responsibilities		Design – Preliminary Plans	

Tanner Shaddox, PE, is a 2021 graduate from the University of Louisiana in civil engineering. As a graduate engineer, he performed construction engineering and design work with transmission lines and his skills include structural analysis, static/dynamic design and foundation design. He also worked as a geotechnical lab technician where he performed soil classification testing and calculations. With Fenstermaker, Mr. Shaddox has assisted on projects involving roadway design and drainage design.

03/24-ongoing	**Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 (Acadia, Evangeline, Iberia, Lafayette, St. Landry, St. Martin, St. Mary, and Vermilion Parishes, LA)** The Louisiana Department of Transportation and Development selected Fenstermaker to provide all necessary engineering services required for the development of plans for the replacement of **14 bridges in District 03** under the Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program, encompassing Acadia, Evangeline, Iberia, Lafayette, St. Landry, St. Martin, St. Mary, and Vermilion Parishes, LA. Fenstermaker's services include the engineering design of each bridge and all other required services, such as H&H modeling, no-rise analyses, scour analyses, surveying, and permitting. Mr. Shaddox is providing engineering design services for multiple bridges within the program, including tasks such as assessing bridge locations; designing horizontal and vertical alignments, channels, corridors, roadside drainage, and embankments; developing drainage plans for channel realignments; and designing guardrails, signs, striping, and signage. His responsibilities also include updating drainage easements and servitudes, preparing and revising plan sets based on LADOTD reviews, coordinating rights-of-way and utilities, conducting site visits to confirm existing conditions and outfall damage, and preparing the 100% preliminary plan submittals in accordance with LADOTD's review process.
08/21-ongoing	**Verot School Interchange at U.S. Highway 90 (Lafayette Parish, LA)** As a sub-consultant to Huval & Associates, Fenstermaker performed engineering design services for improvements to the existing intersection of U.S. Highway 90 (US 90) (Future I-49 South) and Verot School Road. Mr. Shaddox drafted estimated quantities summary tables for the removal of concrete and asphalt driveways, the removal of Portland cement concrete pavement, temporary erosion control, curb and gutter, and removal of asphalt concrete, and drainage.
09/21-03/22	**LyondellBasell Sasol JV Parking & Roadway Improvements (Calcasieu Parish, LA)** Fenstermaker provided survey and engineering services for the proposed parking areas of the Sasol plant's West Laboratory Building, the West Maintenance Building, and the West Control Building in Westlake, Louisiana. These services included designing the conceptual parking lot layout, all existing roadway tie-ins, and preliminary erosion control measures. Mr. Shaddox's duties include setting roadway elevations and grades for the RCC of 3 miles of roadway, striping and signage design for the streets, and cost and quantities for the project.

01/22-ongoing	**Roundabout - E. Broussard at Robley Drive (Lafayette Parish, LA)** Lafayette Consolidated Government contracted with Fenstermaker for engineering and survey services related to the design of a roundabout at the E. Broussard and Robley Drive intersection. The design includes drainage, lighting improvements, utility design/coordination, and environmental clearance/permitting. Mr. Shaddox's duties included the layout of a multi-lane roundabout at an existing T-intersection, roundabout geometric design, horizontal and vertical design, designing the Inroads surface and roadway model of proposed roundabout, sub surface and open channel drainage design, coordination with utility companies for relocation of existing utilities, proposed water line relocation layout. He also derived quantities and worked on the cost estimation.
07/22-02/23	**Four-Mile Bayou Road (St. Martin Parish, LA)** St. Martin Parish Government intends to improve approximately 1.5 miles of Four-Mile Bayou Road, which is a parish-owned roadway. A section of the roadway will be converted to asphalt pavement and Fenstermaker has been contracted to assist in all planning efforts, provide topographic surveying, prepare construction plans, and perform construction administration and inspection services. Fenstermaker is responsible for all engineering services associated with the project. Mr. Shaddox's duties included assistance with proposed roadway improvements of an existing 2-lane aggregate roadway to a 2-lane asphaltic concrete roadway; plan production of letter size deliverable which included typical sections, quantity tables, striping and signage plans; assisted with suggested temporary traffic control; and standard plans.
07/22-08/23	**Improvements to Duchamp Road (St. Martin Parish, LA)** Fenstermaker provided professional engineering, survey, and construction administration services for the improvements to the Duchamp Road in St. Martin Parish. The engineering team prepared the roadway and drainage designs. Mr. Shaddox used HydrWin to determine ditch velocities and analyze culverts, prepared cost estimates and quantities, revised and updated profile and plans sheets, designed drainage area maps and tables, contributed to the Drainage Impact Analysis (DIA) report, and drafted the temporary traffic control layout for the LADOTD permit.
09/23-04/24	**First Solar Project (Iberia Parish, LA)** First Solar selected the grounds of the Acadiana Regional Airport in Iberia Parish for the location of its fifth U.S. solar panel manufacturing facility plant. The new facility will encompass more than 2 million square feet. Rudolph Libbe, Inc., the project's general contractor, tasked Fenstermaker with performing civil engineering services for the facility. The scope of services also included a total turnkey survey (topographic), environmental services (permitting), traffic impact analysis, and construction administration. Mr. Shaddox was responsible for utility coordination and assisted with roadway design.
05/25-ongoing	**US 82 Frontage Road Bridge Replacement (Lowndes County, MS)** The Mississippi Department of Transportation tasked Fenstermaker with providing Phase A roadway final right-of-way plans for the replacement of an existing bridge on US 82 Frontage Road in Lowndes County. Services included developing conceptual plans, preliminary right-of-way plans, field inspection plans, and final right-of-way plans. Mr. Shaddox is serving as the project manager and has edited the vertical profile of the project area based on hydraulic recommendations, prepared, reviewed, and revised field inspection plans, reviewed the hydraulics report, updated the terrain model, and regraded and updated ditch alignments.

16. Staff Experience:

Firm employed by	C. H. Fenstermaker & Associates, L.L.C.		
Name	Mason Macaluso, EI, LSI	Years of relevant experience with this employer	4
Title	Engineer Intern	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		B.S. / 2023 / Civil Engineering	
Active registration number / state / expiration date		EI.0035466 / LA / 09-30-27 | LSI.0000809 / LA / 03-31-26	
Year registered	2023 | 2025	Discipline	Engineer Intern | Land Surveyor Intern
Contract role(s) / brief description of responsibilities		Design – Preliminary Plans	

Mason Macaluso, EI, LSI, works in Fenstermaker's New Orleans office. Mr. Macaluso has a strong background in construction engineering and administration for municipal infrastructure projects. He has supported FEMA-funded roadway and drainage reconstruction efforts in New Orleans, including the Lower Ninth Ward and Central City neighborhoods, where he assisted with bidding, inspection, RFIs, progress reviews, and project closeout tasks. His construction administration experience also includes drainage improvements in St. Charles Parish, where he contributed to design documentation, cost estimating, and utility coordination. He was also involved with lift station upgrades in St. John the Baptist Parish, where he worked on layout design, permitting, and specification preparation.

10/23-ongoing	**Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 (Acadia, Evangeline, Iberia, Lafayette, St. Landry, St. Martin, St. Mary, and Vermilion Parishes, LA)** The Louisiana Department of Transportation and Development selected Fenstermaker to provide all necessary engineering services required for development plans for the replacement of **14 bridges in District 03**. Fenstermaker's services include the engineering design of each bridge and all other required services, including H&H modeling, no-rise analyses, scour analyses, surveying, and permitting. Mr. Macaluso served as a designer of this project and was responsible for the QC of survey data, evaluating site conditions, creating horizontal and vertical alignments, plan production, and preparing opinions of probable cost.
05/22-07/25	**RR021 Central City Group A (FRC) (Orleans Parish, LA)** Fenstermaker was contracted to provide professional engineering design and construction administration services for FEMA-eligible street reconstruction in the Central City neighborhood. The provided services including designing roadway and drainage, creating construction documents, bid & award services; and administrating construction, close out, inspection, reporting, and verification. Mr. Macaluso assisted with construction administration and inspection tasks. He reviewed progress reports and testing data, responded to requests for information (RFIs) from the contractor, and worked on all project close out tasks, including reviewing the as-builts, the punch list, and the end of contract amounts.
06/22-11/25	**RR105 Lower Ninth Ward Northeast Group C (FRC) (Orleans Parish, LA)** The scope of this FEMA-funded street and utility infrastructure improvement project included roadway reconstruction, ADA-compliant pedestrian access, and upgrades to water, sewer, and drainage systems in compliance with FEMA and City standards. Mr. Macaluso assisted with the project's bidding process.
08/22-11/25	**RR045 Filmore South Group D (FRC) (Orleans Parish, LA)** Fenstermaker provided engineering design and construction administration services for FEMA-eligible roadway and drainage improvements in the Filmore South neighborhood under the City of New Orleans Recovery Roads Program. The project scope included surveying, final design, bid support, construction oversight, and integration of ADA-compliant features, green

	infrastructure, and multimodal facilities. Mr. Macaluso's work has focused on heavy civil construction and waterline installation. Mr. Macaluso has prepared and reviewed plans, specifications, and construction documents. He has facilitated pre-construction and bi-weekly progress meetings with municipal agencies, contractors, and engineers, and has documented discussions, tracked issues, and maintained clear channels of communication among all stakeholders. He has prepared project documentation and managed contractor submittals, responded to RFIs, and resolved design and field discrepancies, such as survey conflicts, tie-in misalignments, and underground utility interferences.
05/24-ongoing	**Slidell to Lacombe Connector Road (St. Tammany Parish, LA)** Fenstermaker is conducting a feasibility study for a new route connecting Slidell to Lacombe. Mr. Macaluso was responsible for performing desktop environmental research per LADOTD guidelines for the project, coordinating with the client, and creating horizontal and vertical alignments for various conceptual exhibits. These exhibits were presented to the public for commentary. Mr. Macaluso also prepared a final report for recommendation of single route to the client based on a variety of factors including but not limited to enivornmental concerns, project cost, right of way required, and public feedback.
10/24-ongoing	**Tee Ma Road Sidewalks (Lafayette Parish, LA)** Fenstermaker is preparing design plans for the installation of subsurface drainage and ADA compliant sidewalks along the east side of Tee Ma Road beginning at Carencro Bob Lilly Elementary School and terminating at North Pointe Drive in the City of Carencro. Fenstermaker will also provide construction administration and inspection services during the project's construction phase. This project was funded through the LADOTD Transportation Alternatives Program. Mr. Macaluso served as a designer of this project and was responsible for preparing all necessary submittals to DOTD including plan submittals at various stages of design and cost estimates for the project. Mr. Macaluso also coordinated with the DOTD TAP Project Manager throughout the bid and award process.

16. Staff Experience:

Firm employed by	C. H. Fenstermaker & Associates, L.L.C.			
Name	Derek LaFosse, EI	Years of relevant experience with this employer	3	
Title	Engineer Intern	Years of relevant experience with other employer(s)	3	
Degree(s) / Years / Specialization		B.S. / 2020 / Civil Engineering A.S. / 2014 / Pre-Engineering		
Active registration number / state / expiration date		EI.0034563 / LA / 09-30-26		
Year registered	2020	Discipline	Engineer Intern	
Contract role(s) / brief description of responsibilities		Design – Preliminary Plans		

Derek LaFosse, EI, received his Bachelor of Science degree in Civil Engineering in 2020. His experience in past employment includes assisting project engineers with grading and roadway design, stormwater management system design, erosion and sediment control design, and pre- and post-construction hydrologic and hydraulic studies; assisting senior technical staff at on-site inspections during construction; communicating design requirements with contractors and equipment suppliers; reviewing contractor submittals for adherence to technical specifications on construction projects; analyzing existing stormwater infrastructure and designing additional collection structures to accommodate intersection improvements using LaDOTD Hydraulics Manual and FHWA Hec-22; working as part of LHA 30% design team for +1900' long salinity control structure for a coastal project; analyzing Equivalent Single Axle Loads (ESALs) and Intersection Sight Distance (ISD) for turning lane expansion and park & ride system in support of new LNG facility in Cameron, Louisiana; creating and employing LHA workflow for generating Louisiana Sand Resources Database (LASARD) deliverables utilizing ArcGIS and Excel; and creating and analyzing storm sewer systems using Civil 3D Storm Sewer Analysis (SSA). He currently is responsible for plan review, developing scope, and calculating projection cost for construction.

06/23-ongoing	**Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 (Acadia, Evangeline, Iberia, Lafayette, St. Landry, St. Martin, St. Mary, and Vermilion Parishes, LA)** The Louisiana Department of Transportation and Development selected Fenstermaker to provide all necessary engineering services required for development plans for the replacement of **14 bridges in District 03**. Fenstermaker's services include the engineering design of each bridge and all other required services, including H&H modeling, no-rise analyses, scour analyses, surveying, and permitting. As Project Manager and Lead Designer, Mr. LaFosse oversees project scheduling, construction plan production, and coordination with LADOTD and subconsultants while managing all project deliverables. Design responsibilities included roadway geometry, bridge components, right-of-way, and channel cleaning plans to ensure compliance with project and regulatory standards.
04/22-ongoing	**2021 Lift Station Upgrades Phase 1 (Lafayette Parish, LA)** Fenstermaker is preparing plans and specifications and providing construction administration services for the total replacements of the existing lift station at Rue Basin (Lift Station No. 11) in Carencro, LA. The project also includes the rehabilitation of two lift stations at Moss Street (LS No. 14) and St. Anne Street (LS No. 3) and the installation of approximately 750 feet of new sewer main on Moss Street to E. Gloria Switch Road. As Designer, Mr. LaFosse is responsible for quantity takeoffs, developing the Opinion of Probable Construction Cost (OPC), and coordinating utilities for the lift station upgrade. He also supported construction administration efforts by assisting field inspectors and providing design clarification throughout the construction phase.

04/22-ongoing	**2021 Lift Station Upgrades - Phase II (Lafayette Parish, LA)** Fenstermaker designed the rehabilitation of the Sis Lane and First Street Lift Stations and a new lift station at Veterans Drive in the City of Carencro. As Designer, Mr. LaFosse is responsible for the layout and plan production of three lift station sewer upgrades, including lift station design, pump and pipe sizing, and utility coordination. He also developed the Opinion of Probable Construction Cost (OPC) to support project budgeting and design decisions.
04/22-ongoing	**Water Sector Program (WSP) Grant & Engineering Services for City Wide Water Main Rehab Phases I & II (Lafayette Parish, LA)** Fenstermaker prepared the Water Sector Application on behalf of the City of Carencro, which was successful in helping the City attain a grant amount of $5M. The project will replace their old cast iron and ductile iron waterlines with new PVC pipes, as well as installing new fire hydrants and gate valves. The new pipes would help reduce the amount of brown water and increase operating capacity. Mr. LaFosse is assisting the Project Engineer with design of waterlines, valves and fittings, utility coordination, quantities, cost estimates, and specifications.
08/23-ongoing	**St. Mary Street Sidewalks (Lafayette Parish, LA)** The City of Scott tasked Fenstermaker with completing an ADA-compliant sidewalk network on both sides of St. Mary Street from Lions Club Road to the BNSF Railroad right-of-way. The project also includes designing subsurface drainage where needed. As Designer, Mr. LaFosse is responsible for the layout and plan production of ADA-compliant sidewalks and associated drainage improvements along St. Mary Street in Scott, LA, ensuring compliance with LADOTD and ADA design standards.
10/24-ongoing	**Scott Wastewater Treatment Plant (Lafayette Parish, LA)** Under retainer for the City of Scott, Fenstermaker provided a determination of the required design parameters and usability of the available site for the proposed City of Scott Wastewater Treatment Plant on Coulee Ile des Cannes. Fenstermaker also performed a drainage impact analysis (DIA), completed a Phase I Environmental Site Assessment (ESA), expanded sampling services, conducted a wetland delineation, and provided a preliminary jurisdictional determination at the site. Fenstermaker is now designing an aeration activated sludge wastewater treatment facility capable of treating 2.0 million gallons per day of municipal wastewater. As Site Design Engineer, Mr. LaFosse was responsible for stormwater management and drainage analysis for the proposed wastewater treatment facility, including site grading, subsurface layout design, and preparation of the Drainage Impact Analysis (DIA) report to support permitting and design development.

16. Staff Experience:

Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**			
Name	Brooke Newlin, PE, CFM	Years of relevant experience with this employer	6	
Title	Engineer	Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization		B.S. / 2018 / Civil Engineering		
Active registration number / state / expiration date		PE.0047837 / LA / 09-30-27		
Year registered	2023	Discipline	Civil	
Contract role(s) / brief description of responsibilities		Hydraulics. **Ms. Newlin satisfies MPR No. 2.**		

Brooke Newlin is a Professional Engineer registered in the state of Louisiana and a Certified Floodplain Manager (CFM). Her main responsibilities include developing numerical models for the Calcasieu Parish Regional Watershed Master Plan and contributing to drainage projects for several Parishes and municipalities. Ms. Newlin developed a GIS website that is used to present the Calcasieu Parish Watershed Master Plan drainage information to the public through visual mapping tools. She also assists with hydrologic and hydraulic model analyses, developing future planned conditions, floodplain mapping, and reviewing repetitive loss locations. Ms. Newlin is proficient in the suite of USACE HEC software and Geographic Information System (GIS) mapping. In addition, she has experience in other modeling, mapping, and visualization software including ArcGIS, 3D Analyst, Spatial Analyst, and MicroStation. She has recently completed formal HEC-RAS 2D training through West Consultants. Ms. Newlin has proficient experience in the use of the following software and services: HEC-HMS, HEC-RAS, HEC-WAT, and reviewing flood ordinances.

12/18-ongoing	**Calcasieu Parish Regional Watershed Modeling and Planning (Calcasieu Parish, LA)** Fenstermaker developed an adaptive watershed master plan for the Calcasieu Parish Police Jury by updating legacy 1D models to advanced coupled 1D/2D hydrologic and hydraulic models (HEC-HMS and HEC-RAS), encompassing all watersheds within the Parish, and integrating future conditions such as sea level rise, urban development, and intensified storms. The project involved extensive surveying, stakeholder engagement, GIS-based inventory and analysis, and multi-scale modeling to support data-driven decision-making and the implementation of $15 million in resilient drainage infrastructure projects. Ms. Newlin assisted with developing the Calcasieu Parish Watershed Master Plan by providing engineering, modeling, and planning services. Her main responsibilities include developing and analyzing hydrologic and hydraulic models (using HEC-RAS and HEC-HMS), analyzing known flood prone areas and watershed deficiencies, website development, data collection and inventory, developing a Drainage Infrastructure Watershed Report Card.
06/20-ongoing	**Louisiana Watershed Initiative Region 4 (De Soto, Sabine, Vernon, Rapides, Beauregard, Allen, Jefferson Davis, Calcasieu, and Cameron Parishes)** The Louisiana Watershed Initiative is an unprecedented project that will manage the future flood risk in the State of Louisiana through watershed-based solutions. For Region 4, Fenstermaker is performing hydrologic and hydraulic tasks, data collection, model development, and engineering to successfully complete an interactive, usable, and manageable hydraulic and hydrologic of the region. Ms. Newlin's responsibilities on the LWI Region 4 project involved various tasks related to data management, model development, and peer review. Ms. Newlin was instrumental in the process of integrating previously completed studies into the ongoing LWI models. Ms. Newlin also wrote detailed guidance documents to effectively teach and communicate to the entire project team ensuring quality and consistency across the board. She participated in meetings regarding model setup, terrain modification, 1D2D connection, and peer review. Ms. Newlin reviewed and coordinated peer

	review comments and inquiry about survey evaluation forms/images for the Lower Calcasieu model and the West Fork Peer 1D model. Additionally, she peer-reviewed the Whisky Chitto model, reviewed structures in the model, and performed RAS Model Setup quality control (QC).
07/20-11/22	**Cameron Parish Flood and Surge Protection Berm (Cameron Parish, LA)** The area of Cameron Parish locally known as Big Burn has long been impounded by the spoil bank of the Gulf Intercoastal Waterway (GIWW) to the north, the right descending bank of the Mermentau River to the east, Louisiana Hwy 27 to the west and Louisiana Hwy 82 to the south. Using HMGP funds, Fenstermaker performed a study of the area, that would create a hydrologic model of existing conditions, model one of the significant flood events, consult with landowners, stakeholders, state and federal agencies to develop alternative solutions to alleviate flooding, evaluate the alternative solutions using the hydrologic model, determine the preferred suite of alternatives and develop a conceptual level cost estimate. Ms. Newlin performed H&H modeling for the project and contributed to the H&H report. She also assisted with the Benefit Cost Analysis (BCA) model documentation and other documentation for the project's HMGP grant application.
06/21-02/22	**City of Baker Channel Improvements (East Baton Rouge Parish, LA)** Ms. Newlin assisted with the quality control of the hydrologic (HEC-HMS) and hydraulic (HEC-RAS) models developed for North Canal in the City of Baker. This model was used to identify issues, to implement and analyze alternatives to improve current conditions, and to develop engineering plans. This project was funded through the FEMA Hazard Mitigation Grant Program (HMGP).
03/22-ongoing	**Mermentau Inundation Relief (Cameron Parish, LA)** Parishes located within the Mermentau Basin are continually threatened with flooding during significant rainfall events. The Mermentau Basin Inundation Relief project will link existing drainage laterals along La. Hwy. 82 to convey stormwater north of the highway, widen downstream channels, install new gates at the East End Locks and include other drainage features. The project will divert water into surrounding marshes, improve water quality, sustain fish and wildlife habitat, and reduce area flood risk. Ms. Newlin contributed to the development of the 2D modeling by reviewing current datasets to determine the extent of the model and to inform the project's needed survey services. She also digitized channels and structures and evaluated the project area, basing her assessment on LiDAR elevations. She reviewed RAS files of the regional model and provided input on various structures. She assisted with terrain modifications, reviewed the H&H model, and assisted with drafting the H&H modeling report. Ms. Newlin's work also included conducting the capacity analysis.

16. Staff Experience:

Firm employed by	C. H. Fenstermaker & Associates, L.L.C.		
Name	Carly Phillips, MS, EI, CFM	Years of relevant experience with this employer	2
Title	Engineer Intern	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		M.S. / 2023 / Civil Engineering (Water Resources) B.S. / 2021 / Civil Engineering	
Active registration number / state / expiration date		EI.0034980 / LA / 03-31-26	
Year registered	2021	Discipline	Engineer Intern
Contract role(s) / brief description of responsibilities		Hydraulics	

Ms. Phillips is a member of Fenstermaker's Water Resources Team. She earned her B.S. in Civil Engineering in 2021 and continued her education to earn her M.S. in Civil Engineering with a concentration in Water Resources. She now assists with hydraulic and hydrologic modeling on projects for local and state clients, including LADOTD, Calcasieu Parish, and City of Carencro.

06/23-ongoing	**Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 (Acadia, Evangeline, Iberia, Lafayette, St. Landry, St. Martin, St. Mary, and Vermilion Parishes, LA)** The Louisiana Department of Transportation and Development selected Fenstermaker to provide all necessary engineering services required for development of plans for the replacement of **14 bridges in District 03**. Fenstermaker's services include researching eligible structures, coordinating with local stakeholders, and selecting structures for inclusion in the IIJA Off-System Bridge Program. Ms. Phillips contributed to the hydraulic studies and completed the basin delineations, discharge calculations, and prepared the hydraulic modeling reports.
06/23-ongoing	**Louisiana Watershed Initiative Region 4 (De Soto, Sabine, Vernon, Rapides, Beauregard, Allen, Jefferson Davis, Calcasieu, and Cameron Parishes)** The Louisiana Watershed Initiative is an unprecedented project that will manage the future flood risk in the State of Louisiana through watershed-based solutions. For Region 4, Fenstermaker is performing hydrologic and hydraulic tasks, data collection, model development, and engineering to successfully complete an interactive, usable, and manageable hydraulic and hydrologic of the region, which encompasses De Soto, Sabine, Vernon, Rapides, Beauregard, Allen, Jefferson Davis, Calcasieu, and Cameron Parishes. These models will consider the degree to which communities within a watershed are hydraulically and hydrologically connected and will guide decisions regarding the coordination and implementation of land use, policy, and infrastructure improvements to effectively manage flood risk at the watershed level. Ms. Phillips worked on the 2D RAS Upper Calcasieu model.
06/23-02/25	**Calcasieu Regional Watershed Planning (Calcasieu Parish, LA)** Fenstermaker developed an adaptive watershed master plan for the Calcasieu Parish Police Jury by updating legacy 1D models to advanced coupled 1D/2D hydrologic and hydraulic models (HEC-HMS and HEC-RAS), encompassing all watersheds within the Parish, and integrating future conditions such as sea level rise, urban development, and intensified storms. The project involved extensive surveying, stakeholder engagement, GIS-based inventory and analysis, and multi-scale modeling to support data-driven decision-making and the implementation of $15 million in resilient drainage infrastructure projects. Ms. Phillips reviewed the master plan..

01/24-ongoing	**Isaac Verot Coulee Lateral L7 Revisions (Lafayette Parish, LA)** Lafayette Consolidated Government (LCG) asked Fenstermaker to provide professional hydrologic and hydraulic modeling and topographic surveying services to revise the effective Flood Insurance Rate Map data for Lateral L7 of the Issac Verot watershed. The scope of the study includes hydraulic modeling and re-mapping of the regulatory floodplain, base flood elevation, and floodway. Ms. Phillips reviewed the existing FEMA model and documentation, set up the models, and reviewed and other documentation.
05/25-ongoing	**Coulee Ile Des Cannes LOMR (Lafayette Parish, LA)** Lafayette Consolidated Government asked Fenstermaker to provide professional hydrologic and hydraulic modeling and topographic surveying services in to revise the effective Flood Insurance Rate Map data for Coulee Ile Des Cannes and Lateral L8C. Ms. Phillips researched and reviewed the existing FEMA documentation, and set up GIS files.
06/25-08/25	**Bayou Parc Perdu Regional Detention & Improvements at Lake Peigneur (Iberia Parish, LA)** The Bayou Parc Perdu project was a regional flood mitigation initiative designed to reduce stormwater impacts across Iberia, Lafayette, and Vermilion Parishes, with a special emphasis on lowering flood stages in Bayou Parc Perdu and enhancing outfall efficiency into Lake Peigneur. Ms. Phillips assisted with the modeling of potential detention pond locations, processed modeling results, and worked on the BCA. She also updated channel terrain modifications and channel bathymetry and populated sections of the H&H report.

16. Staff Experience:

Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**		
Name	Travis Bodin, MBA, PLS, PMP	Years of relevant experience with this employer	20
Title	Vice President, Survey	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization	MBA / 2021 / Business Administration B.S. / 2004 / Industrial Technology		
Active registration number / state / expiration date	PLS.0005067 / LA / 03-31-26		
Year registered	2011	Discipline	Professional Land Surveyor
Contract role(s) / brief description of responsibilities	Topographic Survey – R/W Services – Property Survey **Mr. Bodin satisfies MPR No. 4.**		

Travis Bodin, MBA, PLS, PMP has extensive surveying, management, and coordination experience. He has served as the Lead Professional Land Surveyor for projects across Louisiana. His responsibilities have included the management of surveying/ROW services, utility relocation coordination, coordinating with parish, state, and federal agencies and sub-consultants, cost estimating, scoping, scheduling and planning, resource management, and construction management services. With his background in surveying and project management, Mr. Bodin has performed and participated in multi-million-dollar projects consisting of large scale topographic and bathymetric surveys, development of high accuracy GPS networks, landowner notification and documentation, the development of DTM, infrastructure documentation, GIS integration, and process and procedure development. Mr. Bodin has conducted management duties for both field and office activities on survey and engineering projects.

12/08-07/18	**Kaliste Saloom Road Widening & Intersection Improvements - LA3073 to LA733 (Lafayette, LA)** Mr. Bodin served as the Surveyor Project Manager. Fenstermaker performed the topographic survey of all cross street and road tie-ins, cross sections for the purpose of an existing elevation DTM and parcel boundaries effected by the ROW. Mr. Bodin was responsible for field crew coordination, topo/boundary surveys, ROW plats, monuments, data processing, plats and legal descriptions.
03/10-09/18	**Lebesque Road Bridge Replacement and Road Reconstruction (Lafayette Parish, LA)** Fenstermaker was contracted by Lafayette Consolidated Government to provide the design of the replacement of Lebesque Bridge and Lebesque Road Reconstruction. Mr. Bodin served as survey principal and provided oversight of survey crew coordination, right-way and boundary surveys, title research, utility coordination, topographic and bathymetric surveys, and the processing of survey data.
08/11-04/12	**Jackson Street Bridge Topographic Survey-Red River (Rapides Parish, LA)** Fenstermaker was a subconsultant to Huval and Assoc., Inc. Fenstermaker's responsibilities included surveying, generating plats for the existing right of way, and drafting construction drawings for an access road and right of way maps for the proposed right of way takes. Mr. Bodin worked as the survey crew coordinator, created the right-of-way maps required for the project, and was the Surveyor of Record for the project.
10/12-05/14	**US 190 & 4-H Club Rd (LA 1032) Turn Lanes (Livingston Parish, LA)** This project involved the construction of an additional turning lane along 4-H Club Roadway, located in Livingston Parish, LA. Fenstermaker was responsible for creating construction plans, and Mr. Bodin served as the Lead Surveyor, responsible for coordinating the survey crew to collect topography, boundary information, and drainage information. He also coordinated with the title abstractor and processed the survey data into a **LADOTD format** for use in CAD.

09/13-01/19	**Sasol LCCP-Heavy Haul Road Engineering and Construction (LA378 & LA379) (Calcasieu Parish, LA)** This contract included engineering and consulting services for the completion of various aspects of the Sasol Chemicals (USA) LLC–Lake Charles Chemicals Project (LCCP). Fenstermaker was responsible for the engineering design of the 1.5-mile heavy haul route used to transport the oversized modules from the Calcasieu River to the proposed plant site in Westlake, Louisiana. Services included mapping for the acquisition of agreements between Sasol and third-party utilities, platting for acquisition and dedication of property needed for various construction activities and state agencies, and Quality Control services of construction activities that were conducted which included monument review and location mapping. Mr. Bodin served as the Lead Surveyor and oversaw all topographic, boundary, and route surveying. Mr. Bodin was responsible for field coordination, data processing, ROW generation, and servitude and ROW mapping.
02/14-12/19	**S.P. No. H.011014 LA 3002: U-Turn (Livingston Parish, LA)** Fenstermaker was responsible for the improvements made for a J-Turn between North Range Rd and South Range Rd (LA 3002). Mr. Bodin was responsible for preparing **ROW Maps in accordance with LADOTD requirements**. Mr. Bodin coordinated the Fenstermaker survey crew to perform topographical survey and utility relocation. Mr. Bodin also acted as quality control on title research and ROW maps and processed the survey data.
08/14-06/18	**Corbello Road Bridge Replacement (Calcasieu Parish, LA)** Fenstermaker contracted Fenstermaker to provide professional engineering services related to the replacement of the bridge located on Corbello Road approximately 0.79 miles north of the intersection of Hwy 3059. Fenstermaker performed a property and topographic survey as required for the design of the project. Other survey work included identifying existing utilities and establishing a baseline for the Horizontal Control. Mr. Bodin directed the utility marking and coordination, processed data, oversaw field crew tasks, created right-of-way plats, reviewed the final topographic base map (TBM), and reviewed property legal descriptions.
04/15-02/19	**Coach Williams Drive Extension & Roundabout (Calcasieu Parish, LA)** Fenstermaker served as the prime consultant on this multidisciplinary project consisting of engineering design services for the construction of the extension of Coach Williams Drive to connect to Houston River Road (LA 379). This road is approximately 3 miles in length and was designed as a 2-lane open ditch urban collector. Mr. Bodin was the Project Manager and Lead Surveyor, responsible for coordinating the abstracting, topographic survey, and generation of all right-of-way and servitude plats.
11/18-05/19	**Farm Road Bridges Project (Calcasieu Parish, LA)** Fenstermaker was contracted by Calcasieu Parish Police Jury to provide professional engineering services related to the replacement of two (2) bridges located on Farm Road. Mr. Bodin assisted with survey crew coordination, the review of data collection and boundary surveys.
07/19-07/20	**S.P. H.005967 Port of Lake Charles Rail at W. Sallier St. (Calcasieu Parish, LA)** Fenstermaker completed the topographic and boundary surveys, established control, processed data, reviewed title reports, established property boundaries, and mapped encumbrances for the ~0.75 miles Railroad Relocation. **LADOTD survey feature codes were utilized for this project, and LADOTD right-of-way maps** along with COGOWIN legal descriptions were created. Mr. Bodin served as Project Principal and provided QA/QC for this project.

16. Staff Experience:

Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**		
Name	Bradford Millett, PLS, EI	Years of relevant experience with this employer	12
Title	Surveyor	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		B.S. / 2014 / Civil Engineering	
Active registration number / state / expiration date		PLS.0005245 / LA / 03-31-27 | EI.0032848 / LA / 09-30-26	
Year registered	2020 | 2016	Discipline	Professional Land Surveyor | Engineer Intern
Contract role(s) / brief description of responsibilities		Topographic Survey – R/W Services – Property Survey **Ms. Millett satisfies MPR No. 4.**	

Ms. Millett is a Professional Land Surveyor at Fenstermaker whose responsibilities consist of field crew coordination, data collection and processing, preliminary layout and design of boundary and right of way plats, ALTA surveys and the development and planning subdivision platting process. Her experience also includes project management as well as public meetings, client relations, utility coordination, and other components associated with surveying services. Ms. Millett is also responsible for the preparation of proposals for the Engineering, Advanced Technologies, and Surveying Divisions.

06/23-ongoing	**Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 (Acadia, Evangeline, Iberia, Lafayette, St. Landry, St. Martin, St. Mary, and Vermilion Parishes, LA)** **The Louisiana Department of Transportation and Development (LADOTD)** selected Fenstermaker to provide all necessary engineering services required for development plans for the replacement of 14 bridges in District 03. Fenstermaker's services include researching eligible structures, coordinating with local stakeholders, and selecting structures for inclusion in the IIJA Off-System Bridge Program. Ms. Millett coordinated tasks for the survey field crews, processed collected survey data, reviewed boundary and topographic data, reviewed control sketches, and prepared survey deliverables for LADOTD.
10/18-02/23	**Farm Road Bridges Project (Calcasieu Parish, LA)** Fenstermaker was contracted by Calcasieu Parish Police Jury to provide professional engineering services related to the replacement of two (2) bridges located on Farm Road. Ms. Millett worked with the project engineer to complete the project control establishment and topographic survey required for this project.
04/16-09/18	**Lebesque Road Bridge Replacement (Lafayette Parish, LA)** Fenstermaker was contracted by Lafayette Consolidated Government to design the reconstruction of Lebesque Road and the replacement of Lebesque Bridge. Ms. Millett served as the lead surveyor, providing survey crew coordination, utility coordination, boundary surveys and right-of-way plats.
07/13-05/22	**Apollo Road (LA 93) Extension to Dulles Drive – Roadway & Water/Sewer Project (Lafayette Parish, LA)** Fenstermaker performed all topographic surveying of cross streets and road tie-ins, cross sections for the purpose of an existing elevation DTM, and locations of all parcel boundaries effected by the proposed right of way. Ms. Millett created the plats for the acquisition of servitudes and right of ways.
08/13-11/15	**US 90 (I-49 South) Albertson Parkway to Ambassador Caffery Design-Build (Lafayette Parish, LA)** This project upgraded a portion of US 90 in Lafayette Parish to a six-lane controlled access facility and included improvements to the existing east and westbound frontage road system, construction of a new six-lane US 90 overpass structure over both Albertson Parkway and the existing Burlington Northern Santa Fe Railway facility, and construction of all

	associated US 90 mainline ramps needed to connect these overpass structures and frontage roads. Ms. Millett was responsible for reviewing all **LADOTD right-of-way maps**.
06/14-03/17	**East Pont Des Mouton Road Widening & Water/Sewer Design (Lafayette Parish, LA)** Fenstermaker was selected to perform engineering design services for the construction of a 1.4-mile four-lane divided curb and gutter roadway with raised median (boulevard section), sidewalks, subsurface drainage, and street lighting. The improvements replaced an existing 2-lane roadway of East Pont des Mouton Road. Ms. Millett completed the required topographic, as-built survey, boundary surveys, and right-of-way plats, as needed.
06/14-05/18	**Sasol LCCP-Heavy Haul Road (LA378 & LA739) (Calcasieu Parish, LA)** This was a contract with Fluor for engineering and consulting services which included the design of a 1.5-mile heavy haul route that will be utilized to transport oversized modules from the Calcasieu River to the proposed plant site in Westlake, Louisiana. Ms. Millett was responsible for topographic and boundary data collection and data processing, as well as the generation of **Louisiana Department of Transportation and Development Right-of-Way Maps** for the 1.5-mile corridor to acquire servitudes and right of ways. She was also in charge of utility coordination for the relocation of AT&T lines throughout the route.
11/20-08/23	**Louisiana Watershed Initiative Region 6 (Pointe Coupee, West Baton Rouge, Iberville, Iberia, Ascension, Assumption, St. James, St. John the Baptist, St. Martin, St. Mary, Terrebonne, Lafourche, St. Charles, Jefferson, Plaquemines, and Orleans Parishes, LA)** Fenstermaker was contracted as a subconsultant for this project that will manage the future flood risk in Louisiana through watershed-based solutions. Fenstermaker was responsible for assisting with several tasks including data collection, data gap analysis, surveying, drone imaging, and GIS services to successfully complete interactive, usable, and manageable hydraulic and hydrologic models for Region 6. Through TO 1, Fenstermaker is identified, collected, and analyzed available data, and coordinated stakeholder and agency communication and tasks. Fenstermaker acquired channel surveys and hydraulic structure data from existing models, studies, engineering drawings, as-built drawings, and through coordination with local, regional, state, and federal agencies. Fenstermaker converted all acquired data to the project datum and confirmed the validity of information compared to current field conditions to complete a data gap analysis. Ms. Millett served as survey project manager and was responsible for reviewing existing survey data on hydraulic structures, preparing field work and coordinating survey crew assignments, reviewing collected survey data, and coordinating with owners to access properties during survey work. She also finalized and submitted survey deliverables to the client.

16. Staff Experience:

Firm employed by	C. H. Fenstermaker & Associates, L.L.C.		
Name	Bobbijo Vittorio	Years of relevant experience with this employer	6
Title	Survey Technician	Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization	B.S. / 2008 / Drafting and Design Technology A.T. / 1991 / Commercial Advertising and Design		
Active registration number / state / expiration date	Not Applicable		
Year registered	Not Applicable	Discipline	Not Applicable
Contract role(s) / brief description of responsibilities	Topographic Survey – R/W Services – Property Survey		

Ms. Vittorio's experience is in Land Permitting, Right of Way, Leasing, Ownership – Oil, Gas, Electric and Wind Acquisition Projects. Ms. Vittorio's main responsibilities include managing ownership boundary AutoCAD files and serving as a point of contact between survey, land, drafting and other divisions (both inside and outside of Fenstermaker) on various pipeline projects. Ms. Vittorio has acted as lead role for obtaining GIS/Shape files and Data Sets for purpose of setting up project work area in AutoCAD and google earth. This duty includes research and contact of State, Parish, County, City organizations to obtain the most current available data to incorporate with the work being performed for each specific project. In addition, she has experience in setting up data sets in AutoCAD, GIS, KMZ and Xcel to accurately share information deemed necessary to project. Ms. Vittorio's experience with software includes AutoCAD, Google Earth, Global Mapper, QGIS Photoshop, Illustrator, and is currently taking courses to further her knowledge of ArcGIS Pro.

01/21-07/21	**Lead Rail Relocation Right of Way Maps (Port of Lake Charles) (Calcasieu Parish, LA)** Fenstermaker completed the topographic and boundary field surveys, established control, post-processed data, reviewed title reports, established property boundaries and mapped encumbrances for the approximately 0.75-mile Railroad Relocation for the Port of Lake Charles in Lake Charles, Louisiana. **LA DOTD** survey feature codes were utilized for this project, and LA DOTD Right of Way maps along with COGOWIN legal descriptions were created. The maps followed the specifications set forth in the LA DOTD Location & Survey manual in conjunction with direction from LA DOTD agents. Maps went through LA DOTD's internal review process and have been accepted for final recordation. Ms. Vittorio was responsible for the preparation of right-of-way plats, boundaries, and legal descriptions.
06/21-05/22	**Apollo Rd at LA93 (Dulles Dr) Roundabout (Lafayette Parish, LA)** Fenstermaker performed all topographic surveys of cross streets and road tie-ins, cross sections for the purpose of an existing elevation DTM and location of all parcel boundaries affected by the proposed right of way. Additionally, surveying services included ASFD survey of all drainage laterals and drainage structures for hydraulic analysis and location of all utilities and topographic features within an identified area. Major drainage improvements along with the newly created roadway have created opportunities for residential and commercial developments. Ms. Vittorio assisted with property research, quality control of plat preparation and legal descriptions.
09/21-06/22	**LA 675 Roundabout at ARA Access Roadway (Iberia Parish, LA)** This project included the design of a new roadway beginning at the intersection of LA 3212 (Prairie Rd) and Grand Prairie Rd with an approximate 1,300-feet extension that intersects with LA 675 (Jefferson Island Rd). Significant features of this project include a 5-legged roundabout, a boulevard extension, and outfall channel regrading. Ms. Vittorio revised topographic features on the roundabout plats and created legal descriptions.

03/22-ongoing	**Roundabout - E. Broussard at Robley Drive (Lafayette Parish, LA)** Fenstermaker designed a modern multi-lane roundabout at the intersection of E. Broussard Road and Robley Drive in Lafayette Parish. Ms. Vittorio worked on property and right-of-way documentation for this project, including conducting courthouse research on properties within the project's work area, preparing right-of-way plats, and preparing legal descriptions of properties.
12/22-12/22	**H.015126 Baker Overlay (East Baton Rouge Parish, LA)** The City of Baker selected Fenstermaker for an overlay project on approximately 1.25 miles of roadway along Baker Blvd. The project's goal is to mill and overlay approximately 6,600 feet of roadway and identify patching locations. Ms. Vittorio reviewed all data collected by field crews.
12/22-02/23	**Bedico Faubourg Interconnect Survey (St. Tammany Parish, LA)** Fenstermaker performed topographic and boundary/right of way survey for St. Tammany Parish's water main improvements from Bedico Boulevard to Fox Run Boulevard. The interconnect project included the construction of 5,000 linear feet of 12-inch water main along Louisiana Highway 1085 ILA-1085) from the Bedico Boulevard entrance from the Bedico Creek Subdivision to the Red Fox Run Boulevard Entrance to the Fox Branch Subdivision. The proposed 12-inch water main was constructed to connect the Bedico Creek and Faubourg Coquille public water systems. Ms. Vittorio tagged information for plan and profile plats and performed QA/QC to ensure accuracy. She revised all preliminary sheet plans and profile plats and provided updated DWG and PDF files.
09/23-11/23	**First Solar Plant- Boundary/Lease/ALTA (Iberia Parish, LA)** First Solar selected the grounds of the Acadiana Regional Airport in Iberia Parish for the location of its fifth U.S. solar panel manufacturing facility plant. The new facility will encompass more than 2 million square feet. Rudolph Libbe, Inc., the project's general contractor, tasked Fenstermaker with performing boundary, lease, and ALTA survey services for the project area. Fenstermaker also performed a topographic survey of the site. Ms. Vittorio reviewed the title and mapped boundaries for all subject tracts with the project's area. She prepared boundary plats in CAD and prepared lease plats of the proposed property. She conducted research for right-of-way (ROW) agreements along Louisiana Highway 3212 in New Iberia, prepared stakeout files for additional surveys, and prepared ALTA plats.
11/23-ongoing	**Hangar Road Extension & LA Highway 3212 Improvements (Iberia Parish, LA)** This project focuses on extending Hangar Drive to LA HWY 3212 in New Iberia and includes intersections at Hangar Drive and Tower Drive, and at Hangar Drive and LaSalle Street in New Iberia, Louisiana. Additionally, it involves the installation of new left turn lanes at two entrances to the First Solar manufacturing facility along LA Highway 3212. The project also involves the realignment of Leon Landry and an extension of Hangar Drive at the intersection of LA Highway 3212. Fenstermaker provided engineering design services for the extension and improvements along the state highway. Fenstermaker also provided boundary survey services for the project site. Ms. Vittorio worked on the right-of-way (ROW) and servitude plats and legal descriptions. She also revised both line and aerial-based plats.

16. Staff Experience:

Firm employed by	**C. H. Fenstermaker & Associates, L.L.C.**		
Name	Chris Guidry	Years of relevant experience with this employer	26
Title	Senior Environmental Specialist	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		B.S. / 1996 / Environmental and Sustainable Resources	
Active registration number / state / expiration date		Not Applicable	
Year registered	Not Applicable	Discipline	Not Applicable
Contract role(s) / brief description of responsibilities		Permitting – Regulatory – Wetland Studies. **Mr. Guidry satisfies MPR No. 5.**	

Mr. Guidry's experience primarily consists of environmental compliance and securing federal, state, and local permits. Mr. Guidry's duties include overall project management and field investigation support for Environmental Due Diligence projects. He also manages Phase I Environmental Site Assessment projects for commercial and private development clients. Mr. Guidry has prepared Storm Water Pollution Prevention Plan manuals and conducted inspections for construction activities associated with pipeline projects as required by the Environmental Protection Agency's (EPA) National Pollutant Discharge Elimination System (NPDES) Storm Water Multi-Sector General Permit. **Mr. Guidry also has experience in Wetland Delineations, Wetland Characterization, Wetland Damage Assessment, Wetland Permitting,** and Environmental Project Management. He has secured mitigation contracts from approved **Wetland Mitigation Banks**, which offset wetland impacts because of wetland permits that are issued by the US Army Corps of Engineers and the Department of Natural Resources Coastal Management Division.

11/20-05/21	**Farm Road Bridges Project (Calcasieu Parish, LA)** Fenstermaker provided professional engineering services related to the replacement of two (2) timber bridges located on Farm Road between LA 397 and Manchester Road, just east of Lake Charles and southeast of the Chennault International Airport. The project's scope consisted of professional surveying, roadway and bridge design, hydrologic and hydraulic analysis, wetland delineation and USACE permitting, geotechnical investigations, load rating determination, dynamic pile monitoring and vibration monitoring services, utility coordination, right-of-way surveying, title work, right-of-way plat preparation, and construction phase services. Mr. Guidry reviewed the **wetland delineation** field data, prepared and reviewed the wetland delineation report, and prepared, reviewed and finalized all documentation for submittal to USACE.
01/09-02/09	**LADOTD Georgie Ridge Road Bridge Over Boeuf River (Richland Parish, LA)** The project included the production of preliminary and final engineering plans for replacement of a 22-foot-wide x 666-foot-long combination timber and steel bridge on Georgie Ridge Road (local Parish road), crossing the Boeuf River. Mr. Guidry **directed the wetland delineation project management** and report production, data organization and processing, and wetland boundary map development for this project.
06/14-11/18	**Lake Charles LNG Traffic Impact Analysis and Road Improvements (LA384 & LA385): LADOTD Permit No. 153351, 153352, 153353 (Calcasieu Parish, LA)** Mr. Guidry was the environmental project manager for this proposed road improvement project (Calcasieu Point Development) for W Lincoln RD and LA385 located in the Coastal Zone of Louisiana, south of Lake Charles. Mr. Guidry's responsibilities included overall environmental project management, **QA/QC of collected wetland delineation data**, report preparation, and permit agent. Permits acquired include securing a US Army Corps of Engineers (USACE) Jurisdictional Determination, USACE Permit, and LDNR Office of Coastal Management (OCM) permit for jurisdictional wetland and water impacts.

01/15-01/17	**LADOTD Retainer Contract for Environmental Permitting Services: I-10: E JCT I-49 to Atchafalaya Floodway (Lafayette & St. Martin Parishes, LA)** Fenstermaker conducted a routine wetland delineation. The proposed project required pavement rehabilitations and additional travel lanes along I-10, from the east junction of LA HWY 328 continuing eastward to the Atchafalaya Floodway Bridge. The wetland delineation was limited to the existing road ROW. **Mr. Guidry served as the project manager for this wetland delineation**.
05/16-05/16	**LADOTD Retainer Contract for Environmental Permitting Services LA 471: Dartigo Creek & Creek Bridges (Grant Parish, LA)** LADOTD issued Task Order #2 to Fenstermaker in February 2016 for Dartigo Creek & Creek Bridges. Fenstermaker conducted a **routine wetland delineation** in May 2016. The proposed project required the relocation and elevation of an existing 0.662-mile section of LA 471 and replacing three bridge structures along the new alignment. Mr. Guidry was responsible for setting up the project and working with the project manager to complete all the work required for the delineation.
04/17-05/17	**LADOTD Retainer Contract for Environmental Permitting Services I-12 (LA21 to US190) & I-12 (US190 to LA59) (St. Tammany Parish, LA)** Fenstermaker conducted routine wetland delineations in March and April of 2017. The proposed project required pavement rehabilitations and additional travel lanes along Interstate 12. The delineation was limited to the existing road ROW and the required ROW for the proposed construction. **Mr. Guidry performed the wetland delineations** in the field and reviewed the wetland delineation reports.
03/18-03/18	**LADOTD Retainer Contract for Environmental Permitting Services: H.003184 I-10 Widening (Calcasieu Parish, LA)** Fenstermaker conducted a routine wetland delineation and completed a report. The project required pavement rehabilitation and additional travel lanes along I-10, from the Texas state line continuing eastward to just east of Coone Gully. The purpose of the wetland delineation was to determine the presence/absence of wetlands using the three technical criteria: vegetation, hydrology, and soils. The project corridor was approximately 9.9 miles long and covered approximately 360 acres. Mr. Guidry was responsible for **reviewing the wetland delineation report** and ensuring quality assurance and quality control of the document.
03/18-02/19	**Cane River Bridge Church Street Route LA 1-X (Natchitoches Parish, LA)** Mr. Guidry served as the Wetland Analysis Lead for this Environmental Assessment for the replacement of the Cane River Bridge. He was responsible for all aspects of the wetland and threatened and endangered species analysis. He coordinated all field activities and **developed a report summarizing the impacts of the project to wetlands** and threatened and endangered species. Mr. Guidry also assisted with the preparation of the Phase I Environmental Site Assessment and USACE permits.

16. Staff Experience:

Firm employed by	C. H. Fenstermaker & Associates, L.L.C.			
Name	Elliot Boudreaux	Years of relevant experience with this employer	5	
Title	Environmental Specialist	Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization		B.S. / 2020 / Environmental Science		
Active registration number / state / expiration date		Not Applicable		
Year registered	Not Applicable	Discipline	Not Applicable	
Contract role(s) / brief description of responsibilities		Permitting – Regulatory – Wetland Studies. **Mr. Boudreaux satisfies MPR No. 5.**		

Mr. Boudreaux's duties include **Wetland Delineations,** GIS Map Generation, Data Processing, Data analysis, Creating Wetland Permitting Plats, and GIS Database Management. He has designed Smart Forms for Data Collection, which collect data about Phase I Environmental Site Assessments, Biological Surveys, and Damage assessments. Mr. Boudreaux also has experience with Collecting, Processing, and Analyzing GIS Data, such as LiDAR data, for the purpose of levee damage assessments. Mr. Boudreaux has completed the 14 CFR Part 107 FAA Pilot Certification to become a certified UAV Pilot. He has also earned his FEMA Emergency Management Institute certificates for Using the Substantial Damage Estimator 3.0 Tool (IS-00284.a) and Substantial Damage Estimation for Floodplain Administrators (IS-00285). Mr. Boudreaux has also completed a bat monitoring course, Acoustic Survey Course: AZ, which included 4-Day Monitoring Training, Acoustic Survey Project Planning, Survey Data Management, Bat ID, Vetting and Reporting, and Conducting Mobile Transect Monitoring.

07/20-03/21	**West Monroe Reliability Improvement Project (Ouachita Parish, LA)** Entergy needed environmental services and permitting completed to begin constructing two proposed substation expansions and associated transmission line rights-of-way. Fenstermaker ensured Entergy received all required permit authorizations for the originally scoped project months ahead of schedule. Mr. Elliot **performed the wetland delineation** within the project area, added detention ponds and revised alignments to project maps, and revised permit plats.
05/21-08/22	**Vermilion River Spot Dredging (Lafayette Parish, LA)** Fenstermaker was contracted by LCG to provide environmental services necessary to support spot dredging activities in the Vermilion River. Fenstermaker's environmental team was instrumental in spoil disposal project planning. Mr. Boudreaux was responsible for **conducting the wetland delineation**, the drone flights to document flooding, creating wetland maps, and preparing the wetland delineation report.
09/21-10/24	**Southern University Ravine Project (East Baton Rouge Parish, LA)** The United States Army Corps of Engineers (USACE) issued a Technical Assessment Report that identified two areas of concern related to slope and bank erosions at Southern University. This project focused on ravine mitigation measures and included improving the bank erosion and outfall structure and addressing the retaining wall deterioration and stability concerns. As a sub consultant to Huval & Associates, Inc., Fenstermaker provided numerical modeling, field drone and laser scanning, and environmental permitting services for the project. Mr. Boudreaux **conducted the wetland delineation**, processed collected field data, created wetland delineation maps, worked on LiDAR mapping and the project's photo report, assisted the cultural resources survey, and drafted sections of the wetland report.
05/22-04/23	**2017 Iberia Parish Drainage Improvements (Iberia Parish, LA)** Iberia Parish contracted Fenstermaker to evaluate several drainage maintenance alternatives and prioritize them based on hydraulic benefit. This was completed using 2D modeling (Mike Flood) to determine the sensitivity of each alternative based

	on the recommended maintenance plan by the Parish. Fenstermaker completed a more detailed model to determine the downstream impacts of maintenance alternatives and fine-tuned the design parameters. In addition, Fenstermaker completed the plans and permitting for the top prioritized alternatives. Mr. Boudreaux **assisted with the project's required wetland delineation investigation.** He prepared maps and resources for the wetland delineation field work, processed collected data, and created wetland maps.
09/23-10/23	**First Solar Plant- Topo/Civil/Environmental (Iberia Parish, LA)** First Solar selected the grounds of the Acadiana Regional Airport in Iberia Parish for the location of its fifth U.S. solar panel manufacturing facility plant. The new facility will encompass more than 2 million square feet. Rudolph Libbe, Inc., the project's general contractor, tasked Fenstermaker with performing civil engineering services for the facility. The scope of services also included a total turnkey survey (topographic), environmental services (permitting), traffic impact analysis, and construction administration. Mr. Boudreaux **collected wetland data** in the field, drafted wetland delineation maps, and **prepared the wetland delineation** report. He also created Stormwater Pollution Prevention Plan (SWPPP) and threatened and endangered species maps.
11/23-12/24	**Monterey Street Detention Pond (Iberia Parish, LA)** Fenstermaker is designing a new detention pond facility to improve drainage within New Iberia. The project will require clearing and snagging the M-10 drainage canal. When completed, the pond will detain incoming flows from a 25-year recurrence interval storm event. Mr. Boudreaux **conducted the wetland delineation field investigation**, created wetland maps, and drafted the wetland delineation report.

16. Staff Experience:

Firm employed by	**Ardaman & Associates, Inc.**		
Name	**Megan Bourgeois, P.E.**	Years of relevant experience with this employer	19
Title	PROJECT ENGINEER / ASSISTANT BRANCH MANAGER	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		B.S. / 2006 / Civil Engineering Traffic Control Supervisor / LA / 6-21-2028 DOTD Flagger / LA / 8-14-2028 Certified NHI Drilled Shaft Inspector	
Active registration number / state / expiration date		0036725 / LA / 03-31-2026	
Year registered	2011	Discipline	Civil
Contract role(s) / brief description of responsibilities		**Project Manager**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Ms. Bourgeois *has more than 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 & 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 & USACE.*
07/23-Ongoing	**SP NO. H.013284 / MRB SOUTH GBRL: LA 1 TO LA 30 CONNECTOR: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA.** *Project Engineer.* 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	**SP NO. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA.** *Project Manager.* 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	**SP NOs. 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, St. Bernard Parishes, LA.** *Project Engineer.* This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, 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.
02/20-Ongoing	**SP NO. H.004791 / DESIGN SUPPORT SERVICES LA 23, BELLE CHASSE BRIDGE & TUNNEL: Plaquemine Parish, LA.** *Project Engineer/Laboratory Director.* Ardaman's scope consists of review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's for the P3 Project consisting of replacing the Belle Chasse bridge and tunnel. In addition, Ardaman performs acceptance verification sampling and testing during the construction for soils and concrete. 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.
10/15-Ongoing	**SP NO. H.013579 / PECUE LANE I-10 INTERCHANGE: East Baton Rouge Parish, LA.** *Project Manager*. This project consists of twin bridges with MSE wall abutments for both bridges crossing Interstate I-10, a bridge crossing Ward's Creek, and on/off-ramps in south Baton Rouge. Ms. Bourgeois managed all aspects of the project that included field investigations, laboratory testing, and engineering design. Ms. Bourgeois performed analyses including settlement estimates with recommendations for monitoring, driven pile design including down drag considerations, MSE Wall design, slope stability and pavement section recommendations; all completed according to DOTD standards. She is currently assisting with the field construction monitoring.
2014-2015	**SP NO. H.010600.5 / IATT AND NANTACHIE LAKE DAMS EVALUATION & REMEDIATION: Grant Parish, LA.** *Project Manager*. Served as project manager for the project that included a geotechnical engineering evaluation of the earthen dams for two lakes in Grant Parish for slope stability issues. The study included initial site reconnaissance, review of available design, construction, inspection and repair documents, collection of additional field and laboratory data and engineering analyses to develop recommendations for repairs and long-term geotechnical performance monitoring.
10/09-Ongoing	**SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW: Vicksburg, MS.** *Project Manager*. 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.
05/06-12/11	**SP NOs. 700-29-0112 & 700-29-0130 / LA 1 – PHASES 1 & 2: Lafourche Parish, LA.** *Assistant Project Engineer***.** This project is the second phase of the 17-mile elevated highway spanning from Golden Meadow to Fourchon. Ms. Bourgeois directed the laboratory testing program to ensure strict adherence to LADOTD standards and managed the drilling operations which included deep borings and CPT soundings in the coastal marshes via airboat-mounted equipment. She oversaw the completion of over 70 soil boring logs and evaluated and presented approximately 300 CPT sounding logs for use in design of pile foundations.

16. Staff Experience

Firm employed by	**Ardaman & Associates, Inc.**				
Name	**Robert Jewell, P.E.**			Years of relevant experience with this employer	18
Title	PROJECT ENGINEER / BRANCH MANAGER			Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			B.S. / 2009 / Civil Engineering		
Active registration number / state / expiration date			38579 / LA / 09-30-2026 Traffic Control Supervisor / LA / 08-23-2028 DOTD Flagger / LA / 07-31-2029		
Year registered	2013	Discipline	Civil		
Contract role(s) / brief description of responsibilities			**Project Engineer**		

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).
	***Mr. Jewell** serves as the manager of our Baton Rouge office and has over 15 years of experience with design and analyses of countless types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA & 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.*
07/23-Ongoing	**SP NO. H.013284 / MRB SOUTH GBRL: LA 1 TO LA 30 CONNECTOR: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA.** *Project Manager.* 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	**SP NO. H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR): Baton Rouge Parish, LA.** *Project Manager.* The project consists of a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles. 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.
07/09-08/11	**SP NO. 700-29-0112 / LA-1- PHASE 1: Lafourche Parish, LA:** *Assistant Project Engineer.* Mr. Jewell 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.

04/21-Ongoing	**SP NOs. 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, St. Bernard Parishes, LA.** *Project Manager.* 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	**SP NO. H.003370 / I-220 / I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIR FORCE BASE ACCESS ROAD: Bossier Parish, LA.** *Project Manager.* 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-Ongoing	**SP NO. H.013579 / PECUE LANE I-10 INTERCHANGE: East Baton Rouge Parish, LA.** *Project Engineer*. 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 DOTD standards. Mr. Jewell is currently overseeing the construction phase which includes PDA monitoring, static load testing, and settlement monitoring.
07/15-Ongoing	**SP NO. H.004273.5 / I-49 CONNECTOR (LAFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE): Lafayette Parish, LA.** *Project Manager.* 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	**SP NO. H.004435 / I-12 TO BUSH SEGMENT 2, LA 3241 (LA 36-LA435): St. Tammany Parish, LA.** *Project Manager*. 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	**SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW: Vicksburg, MS.** *Project Engineer*. 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

Firm employed by	**Ardaman & Associates, Inc.**			
Name	**Mark Woodward, P.E.**		Years of relevant experience with this employer	7
Title	PRINCIPAL GEOTECHNICAL ENGINEER		Years of relevant experience with other employer(s)	36
Degree(s) / Years / Specialization			M.S. / 2019 / Risk Management M.S. / 1986 / Civil Engineering B.S. / 1982 / Civil Engineering	
Active registration number / state / expiration date			24206 / LA / 9-30-2025	
Year registered	1991	Discipline	Civil	
Contract role(s) / brief description of responsibilities			**Principal Engineer**	

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).
	Mr. Woodward *served as a geotechnical engineer for 36 years in the geotechnical branch of USACE New Orleans District, retiring as the Deputy Chief of the Geotechnical Branch and Dam and Levee Safety Program Manager. He was responsible for managing all departments in the branch including engineering, drilling, soils laboratory, dredge material testing, concrete testing, and administration. Mr. Woodward has considerable experience designing and managing various types of projects on the Mississippi River, Atchafalaya Basin and Storm Surge Levees in Southeast Louisiana, Mississippi and Texas, as well as mitigation and coastal projects in Louisiana. These projects included design of major foundation elements for dams, earthen levees, hydraulic structures, floodwalls, revetments, channel stabilization, bank degrading. ground improvement, deep excavations, relief wells, wick drains, dewatering systems, seepage and stability berms, preloads, reinforced levees and marsh creation for mitigation, coastal restoration and protection and beneficial use of dredge material in marsh and coastal environments with field investigations requiring use of specialized marine and marsh drilling equipment. Since 2018, Mr. Woodward has served as Principal Geotechnical Engineer of Ardaman for Louisiana, Mississippi, Alabama, Arkansas, and Texas. Mr. Woodward provides oversight and review of design major foundation elements for transportation, industrial, commercial and municipal projects.*
04/21-01/2025	**SP NO. H.013987 / RURAL BRIDGES PHASE I: Claiborne Parish, LA.** *Principal Engineer*. The Rural Bridges project initiative consists of replacing many older bridges throughout the State of Louisiana. Mr. Woodward provided review of the geotechnical design including pile foundations for 3 bridges.
01/19-12/23	**SP NO. H.008226 / CHENIERE SPILLWAY & BRIDGE REPLACEMENT: Ouachita Parish, LA.** *Principal Engineer*. Mr. Woodward served as the Principal Engineer for this project which included the replacement of the current damaged spillway and bridge structure in Ouachita Parish, Louisiana.
10/18-11/21	**SP NO H.003370 / I-220 I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIRFORCE BASE ACCESS ROAD: Bossier Parish, LA.** *Principal Engineer.* This Design Build project consisted of direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and an interchange and access road from Interstate 20 in Shreveport, Louisiana. Mr. Woodward provided quality assurance oversight for this project, reviewing the work during the design and construction phase.
05/18-09/19	**SP NO. H.001344 / US 190: LA 437 TO USE 190 BUS (PH 1): St. Tammany Parish, LA.** *Principal Engineer*. Mr. Woodward provided technical oversight for this project which includes the widening of US 190 to a four-lane boulevard between US 437 and US 190.

05/18-08/19	**SP NO. H.011152.5 / I-12 WIDENING (US 190 to LA 59): St. Tammany Parish, LA.** *Principal Engineer.* Mr. Woodward provided technical oversight for this project which included the widening of I-12 in St. Tammany Parish. Ardaman conducted a geotechnical investigation which included 23 deep soil borings, sampling, and laboratory testing along the 3-mile alignment between US 190 and LA 59 for lane widening which included four bridges structures. Mr. Woodward provided oversight to perform additional soil borings, lab testing and engineering analyses for a retaining wall for one of the bridge abutments
05/18-07/18	**IMTT ACCESS ROAD PAVEMENT, AVONDALE: Jefferson Parish, LA.** *Principal Engineer.* Served as senior engineer for 2,200-foot-long x 50 -foot wide rigid and flexible roadway design for AASHTO loading per LADOTD guidelines, including subsurface exploration and testing, California Bearing Ratio, subbase material and thickness recommendations, wearing course thicknesses, and construction recommendations.
06/16-07/16	**SOUTHEAST LOUISIANA URBAN FLOOD CONTROL, LOUISIANA AVENUE PAVING: Orleans Parish, LA.** *Chief of Structural Design.* Served as decision maker as Chief of Structural Design, USACE New Orleans, for asphalt or concrete paving, looking at factors such as construction cost, durability, maintenance cycles and costs, constructability, construction duration, etc.
2014-2018	**DAM AND LEVEE SAFETY PROGRAM, USACE NEW ORLEANS DISTRICT: LA.** *Dam and Levee Safety Program Manager*. Mr. Woodward served as the USACE New Orleans District Levee Safety Program Manager for over four years, responsible for Levee Evaluation Reports for Levee Certifications and the National Flood Insurance Program, Levee Inspection Reports on over 1300 miles of levee on an annual basis, Risk Assessments and Communication for all levees in the District's jurisdiction. Responsible for final Section 408 permitting approval to ensure that construction activities do not increase risk or diminish function of levees and do not cause harm to the public.
2006	**HOMEPLACE LEVEE WITH GROUND IMPROVEMENT, P24: Plaquemines Parish, LA.** *Lead Geotechnical Engineer*. In the aftermath of Hurricane Katrina, Mr. Woodward was assigned to USACE Task Force Guardian as Geotechnical Engineer for Plaquemines Parish to restore levee damage to pre-Katrina conditions. The Homeplace Floodwall had translated due to loading and had to be removed. In order to replace the risk reduction system with an earthen levee, the foundation had to be improved. Using knowledge gained from full scale test section Mr. Woodward had coordinated pre-Katrina for Deep Mixing, Mr. Woodward designed ground improvement and reviewed/ approved all construction submittals and oversaw construction.
05/18-08/19	**SP NO. H.011152.5 / I-12 WIDENING (US 190 to LA 59): St. Tammany Parish, LA.** *Principal Engineer.* Mr. Woodward provided technical oversight for this project which included the widening of I-12 in St. Tammany Parish. Ardaman conducted a geotechnical investigation which included 23 deep soil borings, sampling, and laboratory testing along the 3-mile alignment between US 190 and LA 59 for lane widening which included four bridges structures. Mr. Woodward provided oversight to perform additional soil borings, lab testing and engineering analyses for a retaining wall for one of the bridge abutments

16. Staff Experience

Firm employed by	**Ardaman & Associates, Inc.**		
Name	**Jarmon King, P.E.**	Years of relevant experience with this employer	6
Title	PROJECT ENGINEER	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization	B.S. / 2019 /Civil Engineering Traffic Control Supervisor / LA / 11-08-2027 DOTD Flagger / LA / 05-29-2028		
Active registration number / state / expiration date	49179 / LA / 03-31-2027		
Year registered	2024	Discipline	Civil
Contract role(s) / brief description of responsibilities	**Project Engineer**		

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).
	Jarmon King *serves as a project engineer of Ardaman in the Baton Rouge office with over 7 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 & 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.*
07/23-Ongoing	**SP NO. H.013284 / MRB SOUTH GBRL: LA 1 TO LA 30 CONNECTOR: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA.** *Project Engineer.* 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.
07/21-Ongoing	**SP NO. H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR): Baton Rouge Parish, LA.** *Project Engineer*. The project consists of a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles. 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.
04/21-Ongoing	**SP NOs. 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, St. Bernard Parishes, LA.** *Assistant Project Engineer.* This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers and creeks. 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.

07/21-01/22	**SP No. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA.** *Assistant Project Engineer.* Assisted with all aspects of this project pertaining to coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 electrical resistivity (ER) geophysical survey transects. Most of the soil borings were completed from a barge, some over a considerable amount of water. Some soil borings were completed from a marsh buggy over shallow water and thick marsh grass. He also assisted with the laboratory testing program, processing and analyzing of the ECPT and ER data, development of a geotechnical database and preparation and submittal of a geotechnical data report. This project consisted of obtaining preliminary geotechnical data under an extremely strict deadline to be used in the design phase of a project that will consist of replacing the existing I-10 Calcasieu River Bridge with a new structure and improvements to various other interchanges.
06/20-11/22	**SP. NO. H.002825 / NICHOLSON DRIVE (LA HWY 30) SEGMENT 1: East Baton Rouge Parish, LA.** *Assistant Project Engineer*. This project consisted of the reconstruction and widening of a section of Nicholson Drive between the intersections of Brightside Lane and Burbank Drive for the MOVEBR Program. Thirteen shallow soil borings and two deep soil borings were drilled at the subject site and associated laboratory testing was performed. Mr. King oversaw the field investigation and engineering analyses which included pavement and culvert crossing design recommendations in accordance with LADOTD specifications.
10/18-06/21	**SP NO. H.000263 / CHEF MENTEUR PASS BRIDGE & APPROACH: Orleans Parish, LA.** *Assistant Project Engineer*. Helped produced soil boring logs and CPT soundings in LADOTD format. Assisted with development of the data report.
10/18-11/21	**SP NO. H.003370 / I-220 / I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIR FORCE BASE ACCESS ROAD: Bossier Parish, LA.** *Assistant Project Engineer*. This was a Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructing an interchange and access road from Interstate 20 in Bossier City, Louisiana. Mr. King assisted with the construction monitoring aspect of the project which included PDA testing and CAPWAP analyses.
03/19-07/20	**SP NO. H.004100.5-2 / I-10 WIDENING (LA415 TO HOWARD ST): East Baton Rouge Parish, LA.** Assistant *Project Engineer.* Mr. Kingevaluated the laboratory test results and produced logs for the widening of the East and Westbound lanes, elevated structures, and construction of interchange and ramps on Westbound lanes along I-10 between LA 415 and Howard Street spanning approximately 1 mile. The geotechnical investigation included 58 deep borings and 11 cone penetrometer (CPT) soundings, associated laboratory testing and the preparation of a geotechnical data report.
03/25-Ongoing	**SP NOs. 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:** Rapides, Richland, Vernon, Winn, Evangeline, Jackson, St. Landry Parishes, LA: Project Engineer. The project consisted of geotechnical field investigations throughout Louisiana consisting of ten soil borings to depths ranging from 100 to 120 feet, associated laboratory testing, and reporting for new box culvert structures. Mr. King helped produced soil boring logs and CPT soundings in LADOTD format and developed the data reports.

16. Staff Experience

Firm employed by	**Ardaman & Associates, Inc.**		
Name	**Robert Rousset, P.E.**	Years of relevant experience with this employer	19
Title	PROJECT ENGINEER / VICE PRESIDENT, REGIONAL MANAGER	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		B.S. / 2008 / Civil Engineering	
Active registration number / state / expiration date		38637 / LA / 09-30-2026	
Year registered	2014	Discipline	Civil
Contract role(s) / brief description of responsibilities		**Project Engineer**	

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).
	Mr. Rousset *serves as the manager of Ardaman's New Orleans office and has over 15 years of experience with design and analyses of countless types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), 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.*
05/21-Ongoing	**SP NO. H.014217, H.014218, H.014225, H.014228, H.014233, H.014236 / RURAL BRIDGE REPLACEMENT INIT IATIVE PHASE II: West Feliciana, East Feliciana, Livingston, and St. Bernard Parishes, LA.** *Project Engineer.* 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	**SP NO. H.013942, H.013948, H.013979, H.013985, H.013987, H.013988 / RURAL BRIDGES REPLACEMENT INITIATIVE: Avoyelles and Webster Parishes.** *Project Engineer.* This project consists of 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	**SP NO. H.004100.5-2 / I-10 WIDENING (LA415 TO HOWARD ST): East Baton Rouge Parish, LA.** *Project Engineer.* 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	**SP NO. H.011152 / I-12 (US 190 TO LA 59): East Baton Rouge Parish, LA.** *Project Engineer.* Mr. Rousset oversaw and coordinated the geotechnical field investigation which included 23 deep soil borings and associated laboratory testing along an alignment that included 4 bridges.

07/14-05/18	**SP NO. H.004113 / I-12 TO BUSH SEGMENT 3, LA HIGHWAY 3241 (LA 435 TO LA 40/LA 41): St. Tammany Parish, LA.** *Project Engineer.* 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.
05/12-03/13	**SP NO. H.002260.5 / GOOSE BAYOU BRIDGE ROUTE LA 45: Lafitte, LA.** *Assistant Project Engineer.* 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.
03/11-02/12	**SP NO. H.003886.5 / I-49 SEGMENT J: Caddo Parish, LA.** *Assistant Project Engineer.* 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 the LA DOTD format.
08/09-12/09	**CENTRAL THRUWAY: East Baton Rouge Parish, LA.** *Assistant Project Engineer.* Mr. Rousset performed PDA testing on pre-stressed, pre-cast concrete piles for various bents.
07/09-08/11	**SP NO. 700-29-0112 / LA-1- PHASE 1: Lafourche Parish, LA.** *Assistant Project Engineer.* 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

Firm employed by	**Ardaman & Associates, Inc.**		
Name	**Jessica N. Litt**	Years of relevant experience with this employer	12
Title	LABORATORY MANAGER	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		B.S. / 2010 / Biology	
Active registration number / state / expiration date		NICET / Generalist, Laboratory No. 141243 / 10-01-2027	
Year registered	Discipline		
Contract role(s) / brief description of responsibilities		**Laboratory Manager**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	***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.*
03/25-Ongoing	**SP NOs. 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.** *Laboratory Manager. 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	**SP NOs. H.015568.5, H.015569 / LA 44 ROUNDABOUTS & WIDENING: Ascension Parish, LA.** *Laboratory Manager.* Oversaw the completion of a comprehensive laboratory testing program for 10 deep and 14 shallow soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests in accordance with LADOTD guidelines. Ms. Litt entered the laboratory test results into gINT to produce the LADOTD soil boring logs.
07/23-Ongoing	**SP NO. H.013284 / MRB SOUTH GBR LA 1 TO LA 30 CONNECTOR: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA**. *Laboratory Manager.* 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.
07/23-Ongoing	**SP NOs. H.015489, H.015490, H.015491, H.015492 / IIJA: OFF-SYSTEM BRIDGES: Allen, Beauregard, and Calcasieu Parishes, LA.** *Laboratory Manager.* 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.

10/18-06/21	**SP NO. H.000263.5-1 / CHEF MENTEUR PASS BRIDGE AND APPROACH: Orleans Parish, LA.** *Laboratory Technician*. Assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.
11/15-01/21	**SP NOS. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / MACARTHUR INTERCHANGE COMPLETION PHASE 2, ROUTE US 90-Z: Jefferson Parish, LA.** *Laboratory Technician* Assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content and Visual Classification, Fines Content, Sieve Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.
04/14-03/22	**SP NO. H.004435 / I-12 TO BUSH SEGMENT 2, LA 3241: St. Tammany Parish, LA.** *Laboratory Technician.* Assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.
04/14-05/18	**SP NO. H.004113 / I-12 TO BUSH SEGMENT 3, LA HWY. 3241 (LA 435 TO LA 40 / 41): St. Tammany Parish, LA.** *Laboratory Technician* Assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content and Visual Classification, Fines Content, Sieve Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Unit Weight, Particle Size Analysis (Hydrometer), and UU Strength Tests.
10/09-Ongoing	**SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW: Vicksburg, MS.** *Laboratory Manager.* Assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.

16. Staff Experience

Firm employed by	**Ardaman & Associates, Inc.**		
Name	**Casey Floyd**	Years of relevant experience with this employer	4
Title	DRILLING SUPERVISOR	Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization		High School Diploma	
Active registration number / state / expiration date		Traffic Control Technician / LA / 9-5-2027 Traffic Control Supervisor / LA / 9-6-2027 DOTD Flagger / LA / 6-04-2028 Louisiana Water Well Driller's License #WWC-212, 6-30-2026	
Year registered		Discipline	
Contract role(s) / brief description of responsibilities		**Drilling Supervisor**	

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).
	Mr. Floyd *has over 30 years of experience drilling in the Louisiana Gulf Coast Region including performing soil borings (on land and over water), CPT soundings, monitor well installation and abandonment, and installation of geotechnical monitoring instrumentation. Mr. Floyd has planned and supervised many LADOTD geotechnical investigation projects. He has arranged right of entry, utility locations, site clearing, arranging for police assistance (if needed) and traffic control/crew safety, and coordinating between engineering staff and drill crew. He has also successfully completed a multitude of LADOTD projects consisting of shallow borings and deep soil borings to depths of approximately 300 feet.*
03/25-Ongoing	**SP NOs. 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.** *Drilling Supervisor.* The project consisted of geotechnical field investigations throughout Louisiana consisting of ten soil borings to depths ranging from 100 to 120 feet. Mr. Floyd oversaw the field investigation program consisting of 10 deep soil borings in accordance with LADOTD guidelines. He performed site reconnaissance at each location and coordinated the access along with traffic control.
08/24-Ongoing	**SP NOs. H.015568.5, H.015569 / LA 44 ROUNDABOUTS & WIDENING: Ascension Parish, LA.** *Drilling Supervisor.* Mr. Floyd oversaw the field investigation program consisting of 10 deep and 14 shallow soil borings in accordance with LADOTD guidelines. He performed site reconnaissance, coordinated the access along with traffic control and pavement coring.
07/23-Ongoing	**SP NOs. H.015489, H.015490, H.015491, H.015492 / IIJA: OFF-SYSTEM BRIDGES: Allen, Beauregard, and Calcasieu Parishes, LA.** *Drilling Supervisor.* Mr. Floyd oversaw the field investigation program consisting of 10 deep soil borings in accordance with LADOTD guidelines. He performed site reconnaissance, coordinated the access along with traffic control and pavement coring.
03/22-01/25	**SP NO. H.002244.5 / BOUDREAUX CANAL BRIDGE REPLACEMENT: Terrebonne Parish, LA.** *Drilling Supervisor*. The project consisted of replacement of the existing LA 56: Boudreaux Canal Bridge with a new bridge just west of the center line of the existing bridge. Mr. Floyd oversaw the field investigation program consisting of 8 deep soil borings and 4 CPT soundings in accordance with LADOTD guidelines. He performed site reconnaissance, coordinated the access along with traffic control and pavement coring. Mr. Floyd oversaw the completion of one of the soil borings that was performed on a barge.
07/21-01/22	**SP No. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA.** *Drilling Crew Chief.* Mr. Floyd helped manage and oversee all aspects of an extensive field investigations program which included 37 deep soil borings and 39 CPT soundings in accordance with LADOTD guidelines. Most of the soil borings were completed from a barge, some over a considerable amount of water. Some soil borings were completed from a marsh buggy over shallow water and thick marsh grass.

04/21-Ongoing	**SP NOs. 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, St. Bernard Parishes, LA.** *Drilling Crew Chief*. 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. Floyd oversaw all aspects of this project pertaining to coordination of fieldwork including 31 deep soil borings. Some of these borings were performed through the middle of bridges and at hard access locations.
03/19-07/20	**SP NO. H.004100.5-2 / I-10 WIDENING (LA 415 TO HOWARD ST): East Baton Rouge Parish, LA.** *Drilling Crew Chief.* Mr. Floyd helped oversee the field investigation included 58 deep borings and 11 cone penetrometer (CPT) soundings in accordance with LADOTD guidelines, and electrical resistivity imaging along the entire alignment for the widening of I-10 project. He performed site reconnaissance at each location and coordinated the access along with traffic control.
10/18 06/21	**SP NO. H.000263.5-1 / CHEF MENTEUR PASS BRIDGE & APPROACH: Orleans Parish, LA**. *Drilling Crew Chief*. Mr. Floyd helped manage and oversee all aspects of an extensive field investigation program which included 37 deep soil borings in accordance with LADOTD guidelines, including borings over 200 feet in over 80 feet deep of high flow water.
07/15-Ongoing	**SP NO. H.004273.5 / I-49 CONNECTOR (LAFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE): Lafayette Parish, LA.** *Drilling Supervisor.* The project consists of construction of 5 miles of freeway consisting of a 3.5-mile elevated structure from I-10 to the Airport in Lafayette, LA. Mr. Floyd managed and oversaw the completion of the Phase 2 Kaliste-Saloom Interchange field investigation program which included 26 deep soil borings and 10 CPT soundings in accordance with LADOTD guidelines. He performed site reconnaissance, coordinated the access along with traffic control and pavement coring.
10/09-Ongoing	**SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW: Vicksburg, MS.** *Drilling Supervisor*. Mr. Floyd has performed and supervised all aspects of field operations associated with this multi-million-dollar, high technical needs project consisting of investigating the movement of the I-20 Bridge in Vicksburg, Mississippi. Ardaman managed a comprehensive laboratory testing program and refined a geotechnical site characterization for the bank/bluff where there was evidence of shifting creating movement in the bridge structure. To allow for this advanced testing program, it was imperative to obtain high quality undisturbed soil samples in difficult drilling conditions. Mr. Floyd was instrumental in completing these tasks as well as installing all types of instrumentation to maintain a highly extensive automated monitoring program at the site including vibrating wire piezometers, SAA inclinometers and traditional inclinometers.

16. Staff Experience

Firm employed by	**Ardaman & Associates, Inc.**		
Name	**Chae Hrenyk**	Years of relevant experience with this employer	17
Title	CONSTRUCTION MATERIALS TESTING MANAGER	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			
Active registration number / state / expiration date		Certified NHI Drilled Shaft Inspector	
Year registered	Discipline		
Contract role(s) / brief description of responsibilities		**Construction Testing Technician Supervisor**	

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).
	***Mr. Hrenyk** is the Construction Materials Testing (CMT) Manager in the Baton Rouge office with 15 years of field and laboratory experience. He has performed construction materials testing, QA inspections, and pile monitoring, including PDA, pile logging, and vibration monitoring, as well as drilled shaft construction inspection. He is skilled in geotechnical instrumentation installation and monitoring, field resistivity imaging, and conducting field testing. Mr. Hrenyk trains and supervises all field technicians and serves as client coordinator, communicating field data to clients and engineers. He is certified in drilled shaft installation inspection and experienced with LADOTD project testing and data submission. Additionally, he manages CMT Laboratory certifications, equipment maintenance, technician training, documentation, and agency inspections under AMRL, CCRL, USACE, and LDEQ standards.*
03/25-Ongoing	**SP NOs. 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: Rapides, Richland, Vernon, Winn, Evangeline, Jackson, St. Landry Parishes, LA**. *CMT Laboratory Manager*. The project consisted of geotechnical field investigations throughout Louisiana consisting of ten soil borings to depths ranging from 100 to 120 feet, associated laboratory testing, and reporting for new box culvert structures. Mr. Hrenyk assisted with overseeing the laboratory testing program in accordance with LADOTD guidelines.
03/24-Ongoing	**FACILITY PLANNING AND CONTROL/LSU NEW SCIENCE COMPLEX: East Baton Rouge, LA:** *CMT Manager.* The project consists of the construction of a new science building at LSU. Mr. Hrenyk oversaw and managed all of Ardaman's scope of work which includes soil and concrete inspection and testing, rebar inspection, auger cast-in-place installation and load testing program, and overview of welding inspections.
07/21-01/22	**SP NO. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA.** *Senior Field Technician.* Ardaman's scope of work consisted of coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 electrical resistivity (ER) geophysical survey transects. This project consisted of obtaining preliminary geotechnical data under an extremely strict deadline to be used in the design phase of a project that will consist of replacing the existing I-10 Calcasieu River Bridge with a new structure and improvements to I-10 near the I-210 interchange and various other interchanges including entrances, exits and service roads. Mr. Hrenyk assisted in completing the ER surveys.
09/20-Ongoing	**SP NO. H.013897 / COLLEGE DR FLYOVER RAMP I-10 / I-12: Baton Rouge Parish, LA.** *CMT Laboratory Manager.* Ardaman's scope consists of 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. In addition, Ardaman performs acceptance verification sampling and testing during the construction for soils and concrete. Mr. Hrenyk assisted in review of all acceptance verification sampling and testing during construction and oversaw the input of the data results into LIMS as required by LADOTD.

10/18-06/21	**SP NO. H.000263 / CHEF MENTEUR PASS BRIDGE & APPROACH: Orleans Parish, LA.** *Senior Field Technician.* Ardaman's scope of work for this project consisted of an extensive field investigation program which included 37 deep soil borings, including borings over 200 feet in over 80 feet deep flow water, a laboratory testing program to provide geotechnical characterization data for use in design of deep foundations and embankments, an electrical resistivity (ER) geophysical survey transects testing program, and a data report. Mr. Hrenyk assisted with completion of the ER surveys.
10/18-11/21	**SP NO. H.003370 / I-220 / I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIR FORCE BASE ACCESS ROAD: Bossier Parish, LA.** *Construction Monitoring Inspector.* Mr. Hrenyk helped oversee the installation of driven piles, drilled shafts and helped perform PDA testing and static load tests. He oversaw large diameter drilled shaft installation and bi-directional O-cell testing.
06/18-Ongoing	**SP NO. H.004791 / DESIGN SUPPORT SERVICES LA 23 BELLE CHASSE BRIDGE AND TUNNEL: Plaquemine Parish, LA.** *CMT Laboratory Manager.* 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. Mr. Hrenyk assisted in review of all acceptance verification sampling and testing during construction and oversaw the input of the data results into LIMS as required by LADOTD.
10/15-Ongoing	**SP NO. H.013579 / PECUE LANE I-10 INTERCHANGE: East Baton Rouge Parish, LA** *Construction Monitoring Inspector.* Assisted in performing PDA testing and pile logging for the pre-cast pre-stressed concrete (PCC) piles and steel pipe piles driven for the I-10 Interchange bridge.
10/09-Ongoing	**SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW: Vicksburg, MS.** *Senior Field Technician*. Mr. Hrenyk assisted with many aspects of this multi-million-dollar, highly technical project consisting of investigating the movement of the I-20 Bridge in Vicksburg, Mississippi. Ardaman managed a comprehensive laboratory testing program and refined a geotechnical site characterization for the bank/bluff where there was evidence of shifting creating movement in the bridge structure. He was instrumental in designing and installing the geotechnical instrumentation for this project including vibrating wire piezometers, Casagrande type piezometers, In-place inclinometers, SAA inclinometers, and traditional inclinometers. Currently, he is assisting with a phase of the project that includes upgrading the entire instrumentation communication system and will be monitoring this system continuously.
07/09-08/11	**SP NO. 700-29-0112 / LA-1- PHASE 1: Lafourche Parish, LA:** *Construction Monitoring Inspector.* Served in the field as on-site technician during construction for this project in southeast Louisiana. He assisted the Engineer with PDA testing and pile logging.

SECTION 17

17. Firm Experience:

Firm name	**C. H. Fenstermaker & Associates, L.L.C.**	Discipline(s)*	Bridge, Environmental, Survey, Right-of-Way
Project name	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03	Firm responsibility (prime or sub?)	Prime
Project number		Owner's name	Louisiana Department of Transportation and Development
Project location	Acadia, Evangeline, Iberia, Lafayette, St. Landry, St. Martin, and Vermilion Parishes, LA	Owner's Project Manager	Anthony Bamugo, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, (225) 379-1824, anthony.bamugo@la.gov		
Services commenced by this firm (mm/yy)	09/22	Total consultant contract cost ($1,000's)	$2,850
Services completed by this firm (mm/yy)	ongoing	Cost of consultant services provided by this firm ($1,000's)	$2,775

The Louisiana Department of Transportation and Development selected Fenstermaker to evaluate and select bridge crossings for replacement from a list of approximately 60 eligible structures. Fenstermaker followed a strict screening process to select 14 projects that achieve the goals of the program and maximize the impacts of the available funds. Fenstermaker's services include the engineering design and plan development of each bridge and all other required services, including hydraulic analyses, scour analyses, environmental review and permitting, boundary and topographic survey services, and right-of-way map creation.

Existing East Martial Ave Bridge to be replaced

Fenstermaker is currently in the final plan design phase for 9 bridges and the preliminary design phase for 5 bridges. Completed tasks include H&H modeling and assessing potential structures to develop an understanding of the physical, engineering, and environmental features of each bridge. Fenstermaker is also researching and obtaining copies of all available as-built plans including existing rights-of-way maps and associated property documentation. We have delivered up to 100% preliminary plans on all 14 separate bridge projects illustrating our quality and timely delivery of services to our client.

Fenstermaker's water resources team is handling the hydraulic analysis for each bridge structure. These modeling studies involve conducting alternative analyses to determine the most hydraulically appropriate structure design that adheres to local, state, and federal guidelines, and includes a no-rise analysis for structures located in FEMA-designated floodways. Fenstermaker is also designing the roadside drainage to tie into the existing open ditch or subsurface drainage features. Proposed improvements include the design of side and storm drain outfall pipes, and storm drain pipe tie-ins to proposed box culverts. Furthermore, Fenstermaker is performing scour analyses and providing recommendations for channel erosion protection measures. All data is analyzed using HEC-HMS, HEC-RAS, and the LADOTD HYDRWN software.

KEY PERSONNEL: Rhett Hebert | Luke Hebert | Tanner Shaddox | Mason Macaluso | Derek LaFosse | Chris Guidry | Bradford Millett | Carly Phillips | Elliot Boudreaux | Bobbijo Vittorio

CHALLENGE: Fenstermaker discovered that parishes within the District supplied hydraulics information of varying levels of quality.
SOLUTION: Fenstermaker communicated with the LADOTD Hydraulics Section to ensure the hydraulic information used for design followed sound engineering practices and more conservative designs were used for replacement of each structure.

17. Firm Experience:

Firm name	**C. H. Fenstermaker & Associates, L.L.C.**		Discipline(s)*	Bridge, CE&I/OV, Environmental, Right-of-Way, Survey	
Project name	Farm Road Bridges			Firm responsibility (prime or sub?)	Prime
Project number	Not applicable	Owner's name	Calcasieu Parish Police Jury		
Project location	Calcasieu Parish, LA		Owner's Project Manager	Cliff Vanicor, PE	
Owner's address, phone, email	1015 Pithon Street, Lake Charles, LA 70601, (337) 721-4100, cvanicor@cppj.net				
Services commenced by this firm (mm/yy)	10/18		Total consultant contract cost ($1,000's)	$277	
Services completed by this firm (mm/yy)	05/24		Cost of consultant services provided by this firm ($1,000's)	$246	

Fenstermaker provided professional engineering services for the replacement of two (2) timber bridges located on Farm Road between LA 397 and Manchester Road, just east of Lake Charles and southeast of the Chennault International Airport. Farm Road traverses a rural undeveloped area and is currently a narrow gravel street with open ditches on both sides. The project scope consisted of surveying, roadway and bridge design; and hydrologic and hydraulic analysis, drainage design, wetland delineation, USACE permitting, geotechnical investigations, load rating determination, dynamic pile monitoring and vibration monitoring services, utility coordination, right-of-way surveying, title work, right-of-way plat preparation, and construction phase services.

Existing bridge

Fenstermaker's survey crews collected topographic survey data points for the scope of the project. The crews also collected existing drainage structure information within the project limits. Fenstermaker completed modeling and a floodplain no-rise analysis to obtain an engineering "No-Rise" certificate for the new bridges. The roadside drainage design included open ditches, cross drains, side drains, in accordance with local and state drainage requirements. Fenstermaker combined drainage basins by tying the open ditches together to reduce the likelihood of ponding near the roadway and to create a more uniform flow toward the lateral L-7 channel. The roadside ditch design consists of trapezoidal sections with a 4-foot bottom width. To prevent additions to the required right-of-way and to decrease the potential for erosion, Fenstermaker designed three locations as closed storm sewer systems. Approximately 1,026 feet of side drain, three catch basins, and two pre-cast concrete arch drainage structures were constructed.

Completed conspan structure

Key Personnel: Luke Hebert | Bradford Millett | Chris Guidry | Steve Draughon

17. Firm Experience:

Firm name	**C. H. Fenstermaker & Associates, L.L.C.**	Discipline(s)*	Bridge, CE&I/OV, Environmental, Right-of-Way, Survey
Project name	Lebesque Road Bridge Replacement	Firm responsibility (prime or sub?)	
Project number	Not applicable	Owner's name	Lafayette Consolidated Government
Project location	Lafayette Parish, LA	Owner's Project Manager	Angela Bergeron, PE
Owner's address, phone, email	1515 E University Avenue, Lafayette, LA 70501, (337) 291-5642, acthibodeaux@lafayettela.gov		
Services commenced by this firm (mm/yy)	02/10	Total consultant contract cost ($1,000's)	$279
Services completed by this firm (mm/yy)	05/20	Cost of consultant services provided by this firm ($1,000's)	$186

Fenstermaker was contracted by Lafayette Consolidated Government to provide engineering design services, prepare construction plans and specifications, and oversee construction tasks for the reconstruction of Lebesque Road and the replacement of the Lebesque Road bridge, which crosses Coulee Mine, a major tributary of Bayou Vermilion. The existing bridge was a 21'x23' timber bridge with timber piles. The timber bridge was removed and replaced with a 24'x7"x72' long pre-cast concrete arch drainage structure. The roadside ditches adjacent to the bridge were enclosed with reinforced concrete pipes draining directly into the drainage structure.

The project's scope included the production of preliminary and final plans; bridge and drainage design, the creation of right-of-way plans; conducting a wetland delineation investigation and reporting results; reviewing the geotechnical engineering investigation report provided by the contracted subconsultant; coordinating the relocation of utilities; drafting traffic detour plans; and providing construction administration and inspection services. Fenstermaker's environmental team also prepared applications for the USACE Nationwide Permit for Linear Transportation Projects and the Louisiana Department of Health Office of Public Health Engineering Services Permit.

Additionally, LCG tasked Fenstermaker with performing an H&H study to update the HEC-HMS and HEC-RAS models for the Coulee Mine system from Interstate-10 extending north. These models were used to evaluate future flood mitigation measures using 10-year, 50-year, and 100-year 24-hour storm events. The results of the H&H modeling were used to design the replacement bridge and other drainage structures.

Key Personnel: Luke Hebert | Travis Bodin | Bradford Millett

Existing bridge

Conspan bridge during construction

Completed conspan bridge

17. Firm Experience:

Firm name	**C. H. Fenstermaker & Associates, L.L.C.**	Discipline(s)*	Bridge, CE&I/OV, Environmental
Project name	South Dearborne Bridge Replacement over Indian Bayou	Firm responsibility (prime or sub?)	Prime
Project number	Not applicable	Owner's name	Lafayette Consolidated Government
Project location	Lafayette, LA	Owner's Project Manager	Jim Edwards
Owner's address, phone, email	1515 E University Avenue, Lafayette, LA 70501, (337) 291-8466, jedwards@lafayettela.gov		
Services commenced by this firm (mm/yy)	08/09	Total consultant contract cost ($1,000's)	$118
Services completed by this firm (mm/yy)	06/14	Cost of consultant services provided by this firm ($1,000's)	$117

Fenstermaker was contracted by Lafayette Consolidated Government (LCG) to provide engineering design services, construction plans and specifications, and construction oversight for the South Dearborne Road Bridge Reconstruction Project. The project involved the removal of the existing timber bridge and its replacement with a 5-span (125') pre-cast concrete bridge with precast piles to enhance structural integrity and longevity. Additional work included clearing and grubbing, earthwork, aggregate surfacing, grading, fencing, and flexible revetment to improve roadway conditions and ensure proper drainage. The scope also encompassed utility coordination, right-of-way planning, and the development of traffic control measures, including temporary detour planning. Environmental services included wetland delineation and obtaining necessary construction permits. Fenstermaker provided construction administration, on-site inspections, and quality control oversight to ensure compliance with project specifications and maintain schedule adherence. The completion of this project will enhance transportation safety and improve long-term infrastructure resilience within the Lafayette Consolidated Government road network.

Bridge during construction

Key Personnel: Luke Hebert | Travis Bodin

CHALLENGE: The South Dearborne Road Bridge Reconstruction Project is in a rural area, where land use considerations played a crucial role in the design process. The landowner on the southeast side of the bridge maintained cattle on the property, requiring measures to prevent livestock from straying during construction.
SOLUTION: Fenstermaker incorporated temporary fencing solutions into the project design, ensuring that the cattle remained securely contained while allowing construction activities to proceed without disruption. This proactive approach not only safeguarded the landowner's livestock but also minimized potential project delays and ensured a smooth construction process while maintaining positive stakeholder relationships.

CHALLENGE: During construction, the precast concrete piles began to crack as they were installed. Multiple piles developed transverse cracks due to high tensile stresses encountered during the driving process. Inconsistencies in pile driving techniques, including predrilling depths beyond acceptable limits and improper hammer settings, further contributed to pile failures. These issues posed a major risk to project schedule and structural integrity, requiring a corrective action plan to mitigate further damage.
SOLUTION: Fenstermaker worked with the contractor and LCG to develop a solution to allow the project to continue while ensuring structural soundness. Corrective measures included:

- Epoxy Injection Repair Method – Fenstermaker determined that epoxy injection was an acceptable repair method for the cracked piles, provided it was performed by an experienced contractor using materials from the LADOTD Qualified Products List (QPL).
- Stricter Quality Control and Testing – The contractor was required to conduct Pile Drive Analysis (PDA) testing on an undamaged pile before proceeding with further driving. Additionally, if repaired piles developed new cracks, the contractor would be fully responsible for removal and replacement.
- Hammer Selection and Fuel Settings Adjustments – A comparative WEAP analysis was conducted on different pile hammers, confirming that both the original and proposed hammers could drive the piles if operated at controlled fuel settings to reduce driving stresses.

17. Firm Experience:

Firm name	**C. H. Fenstermaker & Associates, L.L.C.**	Discipline(s)*	Bridge, CE&I/OV, Environmental
Project name	Andre Street Bridge Replacement	Firm responsibility (prime or sub?)	
Project number	Not Applicable	Owner's name	City of Carencro
Project location	Lafayette, LA	Owner's Project Manager	Charlotte Clavier, Mayor
Owner's address, phone, email	210 East St. Peter Street, Carencro, LA 70520, (337) 234-2382, clavier@carencro.org		
Services commenced by this firm (mm/yy)	09/17	Total consultant contract cost ($1,000's)	$185
Services completed by this firm (mm/yy)	09/20	Cost of consultant services provided by this firm ($1,000's)	$170

The City of Carencro experienced a complete structural failure of a bridge that crossed Gaston Coulee. Fenstermaker identified the failure, alerted the City, and worked with the City to take immediate actions to protect public safety. The Andre Street replacement bridge is a precast concrete arch structure, chosen for its durability, hydraulic efficiency, and adaptability to site constraints, including a nearby existing lift station and the need to maintain channel flow capacity. As confirmed by a No-Rise Analysis, the new bridge ensures no rise in the 100-year floodplain water surface elevation (WSE) while providing a long-term solution for local transportation and drainage infrastructure.

Completed conspan bridge

The project addressed multiple challenges, including the need for hydraulic improvements and erosion control measures. The new Conspan O-324 precast arch structure features a 128-square-foot opening, which allows for improved water flow and stability. The channel was widened by 60 feet upstream and 120 feet downstream, integrating seamlessly with existing drainage improvements, including a detention pond built by the USACE in 2013 and the cleaning of Gaston Coulee in 2015. Additionally, articulated concrete mats were installed for slope stabilization, ensuring long-term resilience against erosion and storm events.

Completed conspan bridge

Designed with public safety and regulatory compliance in mind, the project meets FEMA and local floodplain management requirements and prevents adverse impacts on flood elevations. The bridge replacement restores safe and efficient traffic movement and benefits residents and businesses in the area. The precast design also allowed for faster installation and reduced construction costs and provided a cost-effective and low-maintenance solution for the City.

KEY PERSONNEL: Luke Hebert | Bradford Millett | Travis Bodin

CHALLENGE: An existing water main had been installed above ground through the headwall of the previous bridge. When the original structure failed, the bridge could no longer support the waterline, creating a critical infrastructure vulnerability.

SOLUTION: Fenstermaker collaborated with the City of Carencro to develop plans and specifications for relocating the waterline prior to the bridge design and construction. The solution involved boring beneath the channel to install the new waterline underground, ensuring its stability, protection from future structural failures, and improved long-term resilience. This proactive approach allowed the bridge replacement to proceed without risk to the water utility system and enhancing the overall reliability of municipal infrastructure.

17. Firm Experience:

Firm name	**Ardaman & Associates, Inc.**		Discipline(s)*		Geotech
Project name	**I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167)**		Firm responsibility (prime or sub?)		
Project number	SP No. H.004273.5	Owner's name	LADOTD		
Project location	Lafayette Parish, LA		Owner's Project Manager	Chris Nickel	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA | 225.379.1100 | Chris.Nickel@la.gov				
Services commenced by this firm (mm/yy)	07/15	Total consultant contract cost ($1,000's)			$48,668
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)			$2,736

PROJECT DESCRIPTION

The overall project includes construction of a freeway with accompanying interchanges in the Evangeline Thruway US 90/US 167 corridor and flanking collector/distributor roads for local traffic circulation and land access. The project begins just south of the Lafayette Regional Airport and continues north to the I-10/US 167/I-49 interchange, a length of approximately five miles, 3.5 of which consist of elevated structure. The project includes one three-level directional interchange at Kaliste Saloom Road (majority of interchange on structure); two full diamond interchanges at University/Surrey Street and Willow Street; two single point diamond interchanges at Johnston Street and 2nd/3rd Streets with associated railroad grade separations and arterial cross street studies involved; and various cross street connections at Pinhook Road, Jefferson Street, Mudd/Simcoe Street, Donlon Street, Castille/Martin Luther King Road and several minor streets.

Ardaman previously completed the Phase 1 scope of work consisting of 116 soil borings and associated laboratory testing based on LADOTD standards, and 15 electronic cone penetration tests (ECPT) along the alignment. Ardaman will perform the Phase 2 field investigation as the alternatives are determined and released. Ardaman recently performed 26 deep soil borings and 10 ECPT soundings for the Kaliste-Saloom Interchange portion of the project.

Engineering services included supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile and analyze all the supplied soil boring data provide by LADOTD and the additional borings that were recently performed. The engineering analyses consist of detailed selection of design reaches and design soil parameters, slope stability and settlement of earth retained structures, deep foundation design, and load testing recommendations. Two preliminary geotechnical data reports were prepared, along with multiple memorandums outlining the design components, and a geotechnical interpretation report was prepared for the Kaliste-Saloom Interchange.

FIRM MEMBERS:

Robert Jewell, Megan Bourgeois, Robert Rousset, Ross McGillivray, Jarmon King, Casey Floyd, Jessica Litt

17. Firm Experience:

Firm name	**Ardaman & Associates, Inc.**		Discipline(s)*		Geotech
Project name	**IIJA OFF SYSTEM BRIDGES, DISTRICT 07** (113-23-80-3721A-D)		Firm responsibility (prime or sub?)		Sub
Project number	H.015489 H.015490 H.015491 H.015492	Owner's name	LADOTD		
Project location	Allen, Beauregard, and Calcasieu Parishes, LA		Owner's Project Manager	Amanda Ranck	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA; 225.379.1338; Amanda.Ranck@la.gov				
Services commenced by this firm (mm/yy)	07/2023	Total consultant contract cost ($1,000's)			$5,332
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)			$180

PROJECT DESCRIPTION

This project consisted of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 600 feet, mainly over small rivers and creeks.

Ardaman was retained by the LADOTD through a Civil Engineering Prime. Our portion of work on the project began in early 2023 and the project is currently ongoing. 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.

FIRM MEMBERS:

Robert Jewell, Megan Bourgeois

17. Firm Experience:

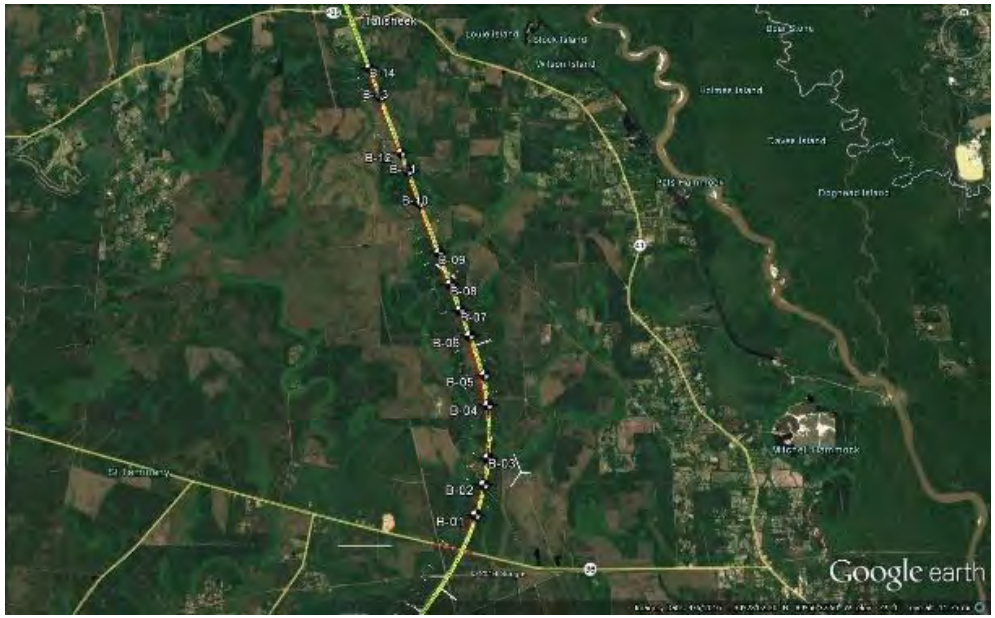
Firm name	**Ardaman & Associates, Inc.**		Discipline(s)*		Geotech
Project name	**I-12 to Bush – Route LA 3241 (LA 36 – LA 435) Segment 2**		Firm responsibility (prime or sub?)		Sub
Project number	SP No. H.004435	Owner's name			
Project location	St. Tammany Parish, LA		Owner's Project Manager	Chris Nickel	
Owner's 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

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.



Firm Members Involved:

Robert Jewell, Megan Bourgeois, Robert Rousset

SECTION 18

18. Approach and Methodology:

C. H. Fenstermaker & Associates, L.L.C. (Fenstermaker) understands that the Louisiana Department of Transportation and Development (LADOTD) and Iberia Parish intend to replace two deficient bridges under the Off-System Bridge Program: the John Lewis Road Bridge over Little Valley Bayou (State Project No. H.016277.5) and the Coulee Road Bridge over Peebles Coulee (State Project No. H.016369.5). Both bridges have reached the end of their useful service life, exhibit structural deterioration, and are hydraulically undersized for current drainage conditions. These projects are being advanced to meet current safety and hydraulic standards consistent with LADOTD's 2019 Off-System Bridge Guidelines, the Bridge Design & Evaluation Manual, and the Hydraulics Manual.

Fenstermaker's goal is to deliver preliminary plans that provide safe, durable, and cost-effective bridge replacements that improve hydraulic performance while minimizing environmental, right-of-way (ROW), and utility impacts. Standard LADOTD plan sets in particular PSS-75-28-20SL for John Lewis Road and PSS-75-24-20SL for Coulee Road will be utilized to promote efficiency, maintainability, and uniformity across the bundle. Hydraulic analyses, geotechnical evaluations, and environmental coordination will be completed in accordance with LADOTD policies for off-system structures.

PROJECT UNDERSTANDING AND GOALS

- Replace structurally deficient bridges with durable concrete slab span structures sized for the 25-year design storm and consistent with local floodplain management requirements.
- Improve public safety by providing appropriate clear roadway widths, transitions, and guardrail systems per LADOTD and AASHTO criteria.
- Minimize environmental and ROW impacts by using standard spans, compact footprints, and careful staging and detour planning.
- Coordinate closely with DOTD Off-System Program, Hydraulics, Bridge Design, and Iberia Parish to streamline reviews and maintain the preliminary plan schedule.

APPROACH TO SURVEY, HYDRAULICS, AND PRELIMINARY PLAN DEVELOPMENT

Survey and Data Collection

Fenstermaker will initiate the design phase with a detailed topographic and boundary survey performed by the firm's in-house survey division, led by Travis Bodin, MBA, PLS, PMP, and Bradford Millet, PLS, EI. All surveys will adhere to the LADOTD Location and Survey Manual and meet the accuracy standards of a Class D survey as defined by the Louisiana Professional Engineering and Land Surveying Board. Field data will include cross-sections, utility locations, existing drainage features, right-of-way monuments, and structure geometry. Each site survey will extend at least 500 feet beyond the bridge ends to capture the full hydraulic and roadway influence area, as prescribed by the Off-System Bridge Guidelines.

Survey deliverables will include:

- Control Submittal
- Topographic Survey
- Property Survey Phase Map
- 60% Base Right of Way Map
- Final Right of Way Map Checkprints
- Final Right of Way Map Matte Films

Hydraulic Analysis and Design

Hydraulic modeling will be led by Brooke Newlin, P.E., CFM, following the LADOTD Hydraulics Manual (2011) and FEMA's Guidelines and Specifications for Flood Hazard Mapping Partners. A steady-state HEC-RAS model (version 6.0 or later) will be developed for both existing and proposed conditions to evaluate flow characteristics, base flood elevations, and potential backwater impacts.

Each bridge will be analyzed for the 10-, 25-, 50-, and 100-year storm events, with the 25-year event used as the design storm per the LADOTD Off-System Bridge Guidelines. The hydraulic analysis will incorporate cross-section spacing based on field survey data, appropriate Manning's n values derived from field observations, and boundary conditions established from the effective FEMA Flood Insurance Study (FIS).

Scour and Stability: Scour evaluations will be performed in accordance with FHWA HEC-18 and HEC-20, assessing contraction, pier, and abutment scour. Permanent erosion control, including riprap sizing and placement, will follow LADOTD Standard Plan FR-01. These protection measures will be detailed in the preliminary hydraulic report and integrated into the bridge layout.

John Lewis Road Bridge Hydraulic Information

- Community: Iberia Parish
- Effective FIRM Date: 12/2/2011
- Flood Zone: AE, Base Flood Elevation (BFE) = 10 ft
- FIRM Panel ID: 22045C0225E
- Ground Elevation: 4.7 ft (NAVD88)
- **Hydraulic Notes:** The existing structure is hydraulically undersized. The proposed low-chord elevation will be established based on model results ensuring adequate freeboard and compliance with LADOTD design standards.

Coulee Road Bridge Hydraulic Information

- Community: Iberia Parish
- Effective FIRM Date: 12/2/2011
- Flood Zone: AE – Floodway, Base Flood Elevation (BFE) = 9 ft
- FIRM Panel ID: 22045C0205E
- Ground Elevation: –0.7 ft (NAVD88)
- **Hydraulic Notes:** The existing crossing is located within an effective FEMA floodway. A detailed no-rise analysis will be performed to demonstrate compliance with FEMA floodway criteria. Proposed improvements will be modeled to ensure no increase in upstream water surface elevations and to maintain adequate conveyance capacity. Channel armoring and riprap will mitigate localized scour and ensure long-term channel stability.

Deliverables: A detailed Hydraulic Report will accompany the 50% submittal, including model input/output tables, water surface profiles, and comparative analyses verifying that the proposed bridges meet LADOTD and FEMA floodway requirements. Each report will include summary tables of pre- and post-construction water surface elevations and corresponding no-rise certifications.

Bridge Type and Layout

For John Lewis Road – Standard Plan PSS-75-28-20SL: Fenstermaker recommends four 20-foot concrete slab spans at a 75° skew (80-foot total length) with a 28-foot roadway width. The structure includes cast-in-place concrete slab spans supported on reinforced concrete pile bents, and cast-in-place approach slabs per the standard plan. The recommended layout is illustrated in Figure 1 – Proposed John Lewis Road Bridge Layout.

Figure 1 – Proposed John Lewis Road Bridge Layout

During Fenstermaker's field visit, two site-specific conditions were observed and will be addressed in the preliminary design:

- Erosion on the southeast corner of the existing bridge (Photo 1 – John Lewis Road Image No. 1). Fenstermaker recommends providing permanent erosion control riprap in accordance with LADOTD Standard Plan FR-01 to stabilize this area and similar locations at both bridges.
- A driveway located near the existing guardrail on the southwest corner (Photo 2 – John Lewis Road Image No. 2). If relocation of this driveway is not feasible, a concrete barrier rail per Standard Plan BR-05 (see Photo 3) could be used to minimize relocation and maintain driveway access safely.

These conditions will be further evaluated during preliminary design for both bridges to confirm the extent of erosion protection required and to determine appropriate driveway tie-in and guardrail treatments in coordination with LADOTD and Iberia Parish.

For Coulee Road – Standard Plan PSS-75-24-20SL: Fenstermaker recommends three 20-foot concrete slab spans at a 75° skew (60-foot total length) with a 24-foot roadway width. The structure includes reinforced concrete pile bents and cast-in-place approach slabs per the standard plan. The recommended layout is illustrated in Figure 2 – Proposed Coulee Road Bridge Layout.

The John Lewis Road Bridge will be designed for a 35-mph design speed, while the Coulee Road Bridge will be designed for a 25-mph design speed, each with appropriate approach transitions, guardrail systems, and safety features per LADOTD standards.

Preliminary Plan Development

Fenstermaker will follow the Off-System Bridge Guidelines (2019): Stage 3, Part I (survey submittal); Stage 3, Part III (50% preliminary plans—hydraulic report; title; layout; plan/profile); Pre-PIH (layout, typicals, drainage and signing sheets, general bridge plan); PIH (full-size plans, Constructability/Biddability form, and post-PIH updates). Plan sheets will follow DOTD's required order and formatting.

ENVIRONMENTAL COORDINATION AND RIGHT-OF-WAY MAPPING

Environmental coordination will be led by Chris Guidry and Elliot Boudreaux. Solicitation of Views letters will be issued per DOTD procedures; wetland delineations and cultural resource reviews will be completed early. A USACE Nationwide Permit (NWP 14) is anticipated for linear transportation work with minor impacts. No-rise certifications will be provided where required. ROW at John Lewis Road is expected to be minimal; Coulee Road may require approximately 10–15 feet of widening on each side. ROW plats and servitudes will be prepared by Bobbijo Vittorio under professional surveyor supervision, using DOTD sample formats.

QA/QC AND PROJECT MANAGEMENT METHODOLOGY

Fenstermaker will submit this Quality Assurance / Quality Control (QA/QC) Plan with the proposal in accordance with LADOTD Off-System Bridge Program requirements. Ian Trahan, P.E. will serve as the Consultant Quality Assurance Manager, responsible for verifying completeness of the QA/QC Plan, ensuring adherence to LADOTD procedures, and auditing compliance throughout project execution. Steve Draughon, P.E. will serve as the Consultant Quality Control Manager, overseeing day-to-day quality control activities, document reviews, and coordination with task leads to ensure all deliverables meet DOTD design and constructability standards.

Fenstermaker's QA/QC process includes independent reviews, design checks, and constructability evaluations prior to all submittals. This proactive, multi-tiered approach ensures technical accuracy, regulatory compliance, and timely delivery of all project documentation.

INTEGRATION OF DESIGN DISCIPLINES

Fenstermaker aligns its survey, hydraulic, structural, roadway, and environmental teams in a single workflow: survey data (including cross-sections) feed HEC-RAS models; hydraulic outputs (openings, low-chord, scour) drive structure configuration; environmental/ROW constraints are integrated in CAD/GIS; and constructability feedback is incorporated at each design checkpoint to minimize rework and maintain schedule.

COORDINATION WITH DOTD AND IBERIA PARISH

Protocols for communication, submittal routing, and review timelines will be established at the kickoff meeting. Fenstermaker will coordinate with the Off-System Bridge Program Manager and internal DOTD

Photo 1 – John Lewis Road Image No. 1

Photo 2 – John Lewis Road Pic No. 2

Photo 3

sections (Hydraulics, Bridge Design, Environmental) and Iberia Parish for field access, detours, and utility coordination. PIH field reviews will be organized to expedite consensus on final preliminary geometry and hydraulics.

Figure 2 – Proposed Coulee Road Bridge Layout

CONCLUSION

C.H. Fenstermaker & Associates, L.L.C. is uniquely qualified to deliver this project successfully. Fenstermaker is currently under contract with LADOTD to design 14 off-system bridge replacements within District 03, including the Mullins Road Bridge at Tete Bayou in Iberia Parish, giving our team current, hands-on experience with the exact procedures, deliverables, and coordination requirements outlined in the Off-System Bridge Program.

Our team's established relationships with LADOTD Districts 03, as well as Headquarters personnel, provide a strong foundation for efficient communication and responsive collaboration throughout the design process. This partnering approach ensures consistent coordination from the initial survey and hydraulics phase through final preliminary plan submittals.

Fenstermaker's extensive knowledge of drainage systems, floodplain management, and local hydrology within Iberia Parish and surrounding areas allows our engineers to anticipate field conditions, streamline design decisions, and reduce review iterations. By combining this regional understanding with our ongoing District 03 bridge program experience, Fenstermaker will deliver designs that are constructible, cost-effective, and compliant with all LADOTD standards.

Fenstermaker's approach to the Off-System Bridge Bundle (John Lewis Road and Coulee Road) employs LADOTD standard plan sets PSS-75-28-20SL for John Lewis Road and PSS-75-24-20SL for Coulee Road, rigorous hydraulic and scour evaluation, and a coordinated, in-house multi-disciplinary workflow. The result is a constructible, maintainable, and schedule-reliable preliminary plan package that meets LADOTD and Iberia Parish objectives while minimizing impacts.

SCHEDULE AND DELIVERABLE MANAGEMENT (PRELIMINARY PLANS)

Task Phase	Duration (Days)	Cumulative Day	Deliverables / Description
Notice to Proceed (NTP)	0	0	Kickoff and notice to proceed issued
Stage 3, Part I (Survey)	30	30	Field rolls, drainage maps, cross-sections, point listings per Off-System Bridge Guidelines
DOTD Review – Survey	10	40	DOTD review and comments on survey package
Stage 3, Part III (50% Preliminary Plans)	45	85	Hydraulic report, title sheet, layout, plan/profile sheets
DOTD Review – Preliminary Plans	20	105	DOTD review of 50% plans and hydraulic report
Pre-PIH (Pre-Plan-In-Hand)	45	150	Layouts, typical sections, drainage maps, signing, general bridge plan, culvert length calcs
Field Review / PIH Meeting	30	180	On-site review, constructability and biddability form
Post-PIH Updates	10	190	Revised half-size set and updated plan/profile sheets

SECTIONS 19 - 23

FENSTERMAKER

19. Workload:

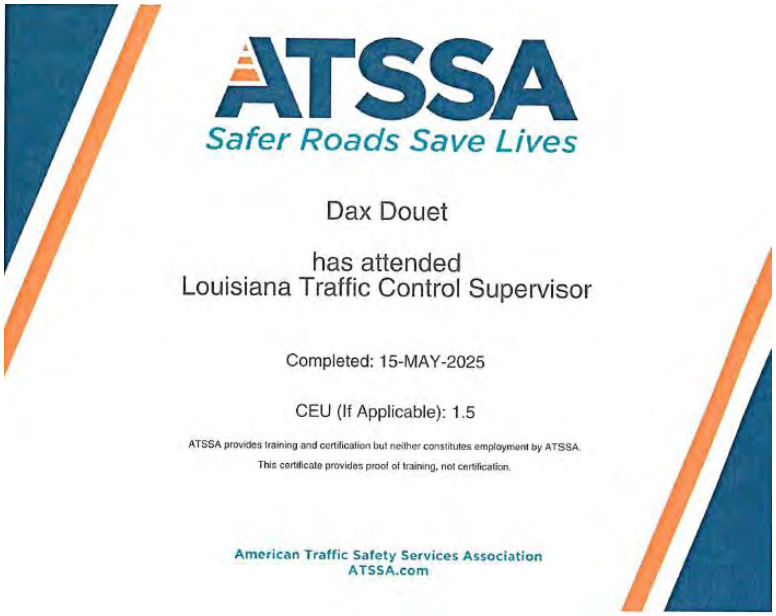
Firm(s) **ALL FIRMS** MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
C.H. Fenstermaker & Associates, L.L.C.	Road	Contract No. 400005673 State Project No. H.011235.5	I-49 South @ Verot School Road US 90	$16,514
C.H. Fenstermaker & Associates, L.L.C.	Road	Contract No. 4400020291 State Project No. H.012869	LA 182 (UNIV) @ LA 723(RENAUD) Roundabout LA 182 and LA 723	$174,615
C.H. Fenstermaker & Associates, L.L.C.	Bridge	Contract No. 4400025023 State Project No. H.015513	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Elenor Road Over Coulee	$21,450
C.H. Fenstermaker & Associates, L.L.C.	Bridge	Contract No. 4400025023 State Project No. H.015335	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Puma Road Over Coulee	$67,950
C.H. Fenstermaker & Associates, L.L.C.	Bridge	Contract No. 4400025023 State Project No. H.015516	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Bieber Road Over Nezpique Bayou	$3,850
C.H. Fenstermaker & Associates, L.L.C.	Bridge	Contract No. 4400025023 State Project No. H.015512	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Mullins Road Over Tete Bayou	$15,250
C.H. Fenstermaker & Associates, L.L.C.	Bridge	Contract No. 4400025023 State Project No. H.015511	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 E. Martial Ave. Over Coulee	$1,650
C.H. Fenstermaker & Associates, L.L.C.	Bridge	Contract No. 4400025023 State Project No. H.015515	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Andover Road Over Indian Bayou Lateral	$24,050
C.H. Fenstermaker & Associates, L.L.C.	Bridge	Contract No. 4400025023 State Project No. H.015514	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Sarah Dee Pkwy. Over Coulee	$64,850
C.H. Fenstermaker & Associates, L.L.C.	Bridge	Contract No. 4400025023 State Project No. H.015505	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Solid Waste Water Road Over Bayou Boeuf	$1,650

C.H. Fenstermaker & Associates, L.L.C.	Bridge	Contract No. 4400025023 State Project No. H.015510	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Phillip Street Over Drainage Bayou	$76,500
C.H. Fenstermaker & Associates, L.L.C.	Bridge	Contract No. 4400025023 State Project No. H.015509	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Huval Street Over True Canal	$15,600
C.H. Fenstermaker & Associates, L.L.C.	Bridge	Contract No. 4400025023 State Project No. H.015508	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Adam Guidry Road Over Coulee	$74,600
C.H. Fenstermaker & Associates, L.L.C.	Bridge	Contract No. 4400025023 State Project No. H.015507	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Minos Road Over Coulee	$26,800
C.H. Fenstermaker & Associates, L.L.C.	Bridge	Contract No. 4400025023 State Project No. H.015506	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Aristide Road Over Coulee	$30,100
C.H. Fenstermaker & Associates, L.L.C.	Bridge	Contract No. 4400025023 State Project No. H.015517	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 03 Guegnon Street Over Youngs South Coulee	$81,250
C.H. Fenstermaker & Associates, L.L.C.	Road	Contract No. 4400025625 State Project No. H.014622.2	St. Nazaire Road Ext: LA 96 – Corne Road	$360,377
C.H. Fenstermaker & Associates, L.L.C.	Environmental	Contract No. 4400027474	IDIQ Contract for Environmental Permitting and Biological Services Task Order No. 2 MS4 Permitting Support East Baton Rouge Parish District 61	$35,533
C.H. Fenstermaker & Associates, L.L.C.	Road	Contract No. 4400030052 State Project No. H.014842	Task Order No. 1/H.014842.5 LA 3184: LA3025 – I-10 IDIQ Contract for Roadway Design Services Statewide with Majority of Work in Districts 03 & 07	$157,493
C.H. Fenstermaker & Associates, L.L.C.	Road	Contract No. 4400030052 State Project No. H.015966.5	Task Order No. 2 (H.015966.5) LA 3233: R-Cut at I-49 South Interchange IDIQ Contract for Roadway Design Services Statewide with Majority of Work in Districts 03 & 07	$149,622

C.H. Fenstermaker & Associates, L.L.C.	Traffic	Contract No. 4400021517 State Project Nos. H.01998, H.01990, H.013819, H.01197, H.012043, H.010001	Contract 5 for Moveable Bridges (6) Abbeville Bypass, Milton, Parks, Old Abbeville, West Fork, Ellender	$104,701
C.H. Fenstermaker & Associates, L.L.C.	Other (Hydraulics)	Contract No. 4400031035	IDIQ Contract for Hydraulics Section Support Statewide	$5,000,000
Ardaman & Associates, Inc.	Geotech	44-4128; H.004273	I-49 Connector, Lafayette	$255,976
Ardaman & Associates, Inc.	Geotech	44-18899; H.004791	LA 23: Belle Chasse Bridge & Tunnel (HBI)	$29,029
Ardaman & Associates, Inc.	Geotech	44-19013; H.004100.5	I-10 CMAR Design Continuation: LA 415 TO ESSEN ON	$354,127
Ardaman & Associates, Inc.	Geotech	H.004435	I-12 to Bush Construction Phase	$47,194
Ardaman & Associates, Inc.	Geotech	44-8671; H.009266	I-10 Widening: LA 73 to LA 30	$25,760
Ardaman & Associates, Inc.	Geotech	44-19013; H.002244.5	Boudreaux Canal Bridge (LA 56)	$180
Ardaman & Associates, Inc.	Geotech	44-17438; H.013284	MRB GBR LA 1 to LA 30 Connector	$2,135
Ardaman & Associates, Inc.	Geotech	44-6189; H.004647.6	I-20 Mississippi River Bridge at Vicksburg	$1,704,970
Ardaman & Associates, Inc.	Geotech	H.015935	LA 47 @ Bayou Bienvenue Bridge Replacement PDA	$23,059
Ardaman & Associates, Inc.	Geotech	44-25025; H.015337, H.015452, H.015453, H.015454, H.015455, H.015456, H.015457, H.015458, H.015459, H.015460, H.015461, H.015462, H.015463	IIJA	$62,010

Ardaman & Associates, Inc.	Geotech	44-24652; H.014265.5	N River Road Irving Branch	$65
Ardaman & Associates, Inc.	Geotech	44-24652; H.012533.5	LA 1252 Bayou Pt Brule Bridge	$39
Ardaman & Associates, Inc.	Geotech	44-24652, H.012607.5	Henderson Bayou Bridge LA 933	$65
Ardaman & Associates, Inc.	Geotech	44-24652, H.015568.5, H.015569	Pelican Point Roundabout	$8,048
Ardaman & Associates, Inc.	Geotech	44-24652; H.012842.5	LA 124 Ext. Larto Lake	$152
Ardaman & Associates, Inc.	Geotech	44-21519; H.012030.5	KCS RR Overpasses US 371	$44,179
Ardaman & Associates, Inc.	Geotech	44-21887; H.012542, H.012543, H.012544, H.012047	Replacement of 15 Bridges	$461,614
Ardaman & Associates, Inc.	Geotech	44-6189; H.016313.5, H.016314.5, H.016315.5, H.016316.5, H.016317.5, H.016318.5, H.016319.5, H.016320.5, H.016325.5	Culvert Replacements	$48,098
Ardaman & Associates, Inc.	Geotech	H.015429, H.015430, H.015432	IIJA	$3,192
Ardaman & Associates, Inc.	Geotech	H.001798	LA 531: Bridges Near Dubberly	$20,783
Ardaman & Associates, Inc.	Geotech	H.004100	I-10: LA 415 to Essen on I-10 and I-12	$659,097

20. Certifications/Licenses:



ATSSA
Safer Roads Save Lives

Dax Douet

has attended
Louisiana Traffic Control Supervisor

Completed: 15-MAY-2025

CEU (If Applicable): 1.5

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

American Traffic Safety Services Association
ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Travis Bodin
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

9/23/2022 to 9/23/2026
Training Valid Through

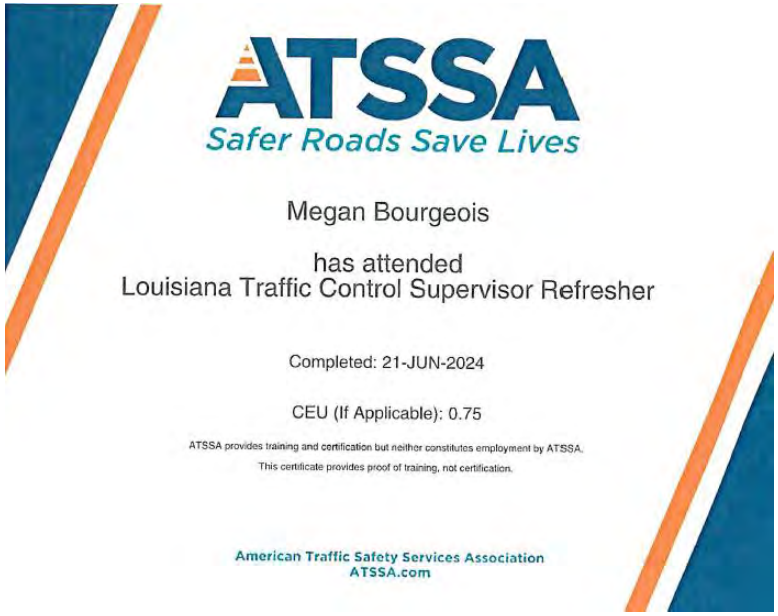
Director of Training

Lafayette, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com



ATSSA
Safer Roads Save Lives

Megan Bourgeois

has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 21-JUN-2024

CEU (If Applicable): 0.75

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

American Traffic Safety Services Association
ATSSA.com

ATSSA
Safer Roads Save Lives

Megan Bourgeois

has attended
National Flagger Certification Training Course

Completed: 15-AUG-2024

CEU (If Applicable): 0

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

American Traffic Safety Services Association
ATSSA.com

ATSSA
Safer Roads Save Lives

Robert Jewell

has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 23-AUG-2024

CEU (If Applicable): 0.75

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

American Traffic Safety Services Association
ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jarmon King
has attended
Louisiana Traffic Control Supervisor
Training Course

11/8/2023 to 11/8/2027
Training Valid Through

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Casey Floyd
has attended
Louisiana Traffic Control Supervisor
Training Course

9/6/2023 to 9/6/2027
Training Valid Through

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA American Traffic Safety Services Association

This is to affirm that

ROBERT JEWELL

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Issue Date 7/31/2025
Exp. Date 7/31/2029
State Issued LA
VG000394058

Instructor Name: Debbie Purcella
Instructor Signature

Verify at Flagger.com

ATSSA American Traffic Safety Services Association

This is to affirm that

JARMON KING

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Issue Date 5/29/2024
Exp. Date 5/29/2028
State Issued LA

Instructor Name: Debbie Purcella
Instructor Signature

ATSSA American Traffic Safety Services Association

This is to affirm that

ROBERT JEWELL

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Issue Date 7/31/2025
Exp. Date 7/31/2029
State Issued LA
VG000394058

Instructor Name: Debbie Purcella
Instructor Signature

Verify at Flagger.com

Louisiana SECRETARY OF STATE NANCY LANDRY

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Name	Type	City	Status
C. H. FENSTERMAKER & ASSOCIATES, L.L.C.	Limited Liability Company	LAFAYETTE	Active

Previous Names

C. H. FENSTERMAKER & ASSOCIATES, INC. (Changed: 12/31/2011)

Business: C. H. FENSTERMAKER & ASSOCIATES, L.L.C.
Charter Number: 33922270K
Registration Date: 8/10/1982

Domicile Address

135 REGENCY SQUARE
LAFAYETTE, LA 70508

Mailing Address

P.O. BOX 52106
LAFAYETTE, LA 70505

Status

Status: **Active**
Annual Report Status: **In Good Standing**
File Date: 8/10/1982
Last Report Filed: 7/11/2025
Type: Limited Liability Company

Registered Agent(s)

Agent: WILLIAM H. FENSTERMAKER
Address 1: 135 REGENCY SQUARE
City, State, Zip: LAFAYETTE, LA 70508
Appointment Date: 8/12/1993

Officer(s) Additional Officers: No

Officer: W. H. FENSTERMAKER
Title: Manager, Member
Address 1: 135 REGENCY SQUARE
City, State, Zip: LAFAYETTE, LA 70508

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

Previous Names

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

Domicile Address

8008 SOUTH ORANGE AVENUE
ORLANDO, FL 32809

Mailing Address

3475 E. FOOTHILL BLVD.
PASADENA, CA 91107

Principal Business Office

8008 SOUTH ORANGE AVENUE
ORLANDO, FL 32809

Registered Office in Louisiana

3867 PLAZA TOWER DR.
BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana

316 HIGHLANDIA DR.
BATON ROUGE, LA 70816

Status

Status: **Active**
Annual Report Status: **In Good Standing**
Qualified: 12/13/1991
Last Report Filed: 11/19/2024
Type: Business Corporation (Non-Louisiana)

Registered Agent(s)

Agent: C T CORPORATION SYSTEM
Address 1: 3867 PLAZA TOWER DR.
City, State, Zip: BATON ROUGE, LA 70816
Appointment Date: 12/13/1991

21. QA/QC Plan:

Per the advertisement, Fenstermaker's bridge design QA/QC plan document specifically developed for this contract is attached on the following pages.

QUALITY ASSURANCE / QUALITY CONTROL PLAN

STATE PROJECT NOS. H.016277.5 AND H.016369.5
FEDERAL AID PROJECT NOS. H016277 AND H016369
OFF-SYSTEM HIGHWAY BRIDGE PROGRAM
JOHN LEWIS RD OVER LITTLE VALLEY BAYOU AND
COULEE RD OVER PEEBLES COULEE
IBERIA PARISH

CONTRACT NO. 4400033946

November 20, 2025

Presented to:

DOTD
LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

Presented by:

FENSTERMAKER

Purpose

The Louisiana Department of Transportation and Development (LADOTD) has retained the professional engineering and surveying services of the consulting team comprised of C.H. Fenstermaker & Associates, LLC (Prime Consultant) and Ardaman & Associates, Inc. to provide all necessary engineering and related services for developing plans for the replacement of the John Lewis Road Bridge over Little Valley Bayou and Coulee Road Bridge over Peebles Coulee, hereafter identified as “the Project”.

The purpose of this Quality Control Plan (hereafter referred to as “the Plan”) is to assist the Consultant in following the standard of quality for the Project through implementation of quality processes early and throughout the various task orders assigned to this Project. The Consultant will achieve this by providing adequate time in the schedule for thorough reviews of the deliverables, using appropriately skilled personnel, and documenting review processes.

Definitions

Quality is the degree to which a product or service conforms to meet the requirements of the Owner (including rules, procedures, policies, and standards).

Quality Assurance (QA) is defined as planned and systematic activities of providing fact-based evidence that quality products and services are being delivered. Essentially, QA describes the process of enforcing quality control protocols.

Quality Control (QC) is defined as the activities of implementing, monitoring, and continuously improving processes to ensure delivery of quality products, services, and information. QC includes activities such as: providing clear decisions and directions, constant supervision by experienced individuals, immediate review of completed activities for accuracy and completeness, and accurate documentation of all decisions, assumptions, and recommendations.

Quality Control Plan (the Plan) is a written set of procedures and activities aimed at delivering products that meet quality objectives for a project as stated in contract documents and other procedures, manuals, and guidance. The plan will identify the organization, or individuals, responsible for quality control and the specific procedures used to ensure delivery of a quality product. The plan will also detail quality assurance measures and the method of accountability and required documentation.

Table of Contents

List of Figures

Section 1.0 Project Information

This Quality Control Plan is written to meet the requirements for the Project. The Plan has been developed to ensure compliance with the requirements set forth in the contract for this Project. The Consultant is committed to implement and follow this Quality Control Plan.

Prime Consultant Project Office
C.H. Fenstermaker & Associates, L.L.C.
135 Regency Square
Lafayette, Louisiana 70508
Phone: (337) 237-2200

Consultant Project Principal
Dax Douet, P.E.
C.H. Fenstermaker & Associates, L.L.C.
135 Regency Square
Lafayette, LA 70508
Phone: (337) 237-2200
Mobile: (337) 258-2723
Email: dax@fenstermaker.com

Consultant Project Manager
Rhett Hebert, P.E., CFM
C.H. Fenstermaker & Associates, L.L.C.
135 Regency Square
Lafayette, LA 70508
Phone: (337) 237-2200
Mobile: (337)-501-7590
Email: rhett@fenstermaker.com

Consultant Quality Assurance Manager
Ian Trahan, P.E.
C.H. Fenstermaker & Associates, L.L.C.
135 Regency Square
Lafayette, LA 70508
Phone: (337) 237-2200
Mobile: (337) 207-8765
Email: iant@fenstermaker.com

Consultant Quality Control Manager
Steve Draughon, P.E.
C.H. Fenstermaker & Associates, L.L.C.
135 Regency Square
Lafayette, LA 70508
Phone: (337) 237-2200
Mobile: (337) 278-3988
Email: sdraughon@fenstermaker.com

Section 2.0 Project Goals and Objectives

Refer to the Louisiana Department of Transportation and Development's Advertisement for Engineering Services and Related Services dated October 29, 2025 (and associated documents) entitled "Contract No. 4400033946, Off-System Highway Bridge Program John Lewis Rd over Little Valley Bayou and Coulee Rd over Peebles Coulee Iberia Parish".

Section 3.0 Project Schedule

Specific quality reviews will be held prior to submission milestone dates, which will be reflected on future development of the Project schedule as task orders are identified by LADOTD. At the time this plan was completed, a detailed project schedule has not been prepared. Once the scope of services is finalized for individual task orders, the Consultant will prepare task specific schedules as needed by the task project manager.

Section 4.0 Project Organization Chart

Refer to Figure 4.1 for the project organization chart.

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♦ Ardaman & Associates, Inc.

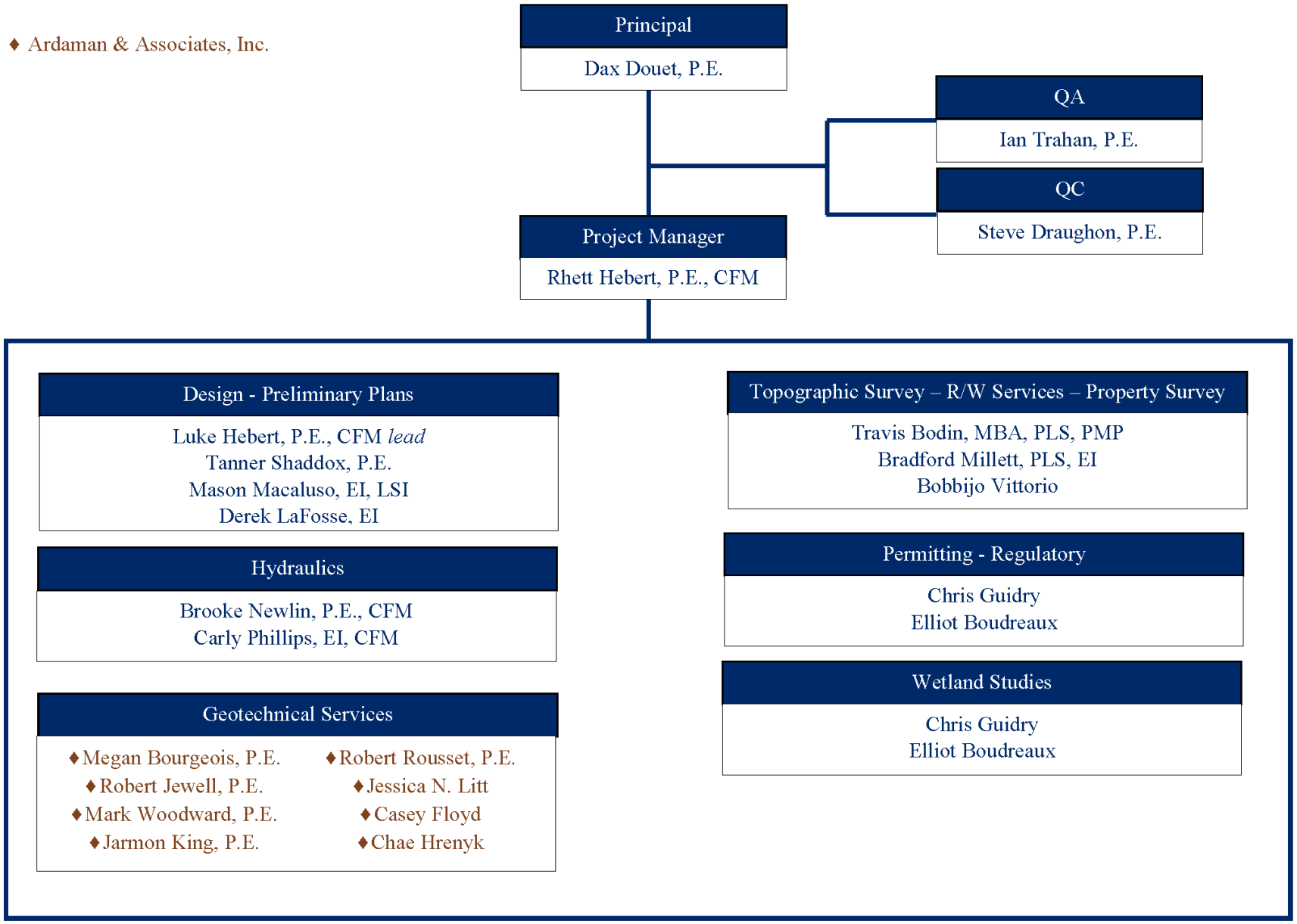

Figure 4-1 Project Organization Chart

Section 5.0 Responsibilities

The Consultant is responsible for performing the work in accordance with the requirements of the contract. At a minimum, the Consultant will follow this Quality Control Plan prepared for the Project. All deliverables will be reviewed by the Consultant for completeness and accuracy before submitted to LADOTD.

Each project Consultant member is responsible for the overall quality of the project. The Consultant's Quality Control Team will consist of, at minimum, the following:

- Principal (Dax Douet, C.H. Fenstermaker & Associates, L.L.C.)
- Project Manager (Rhett Hebert, C.H. Fenstermaker & Associates, L.L.C.)
- Project Quality Assurance Manager (Ian Trahan, C.H. Fenstermaker & Associates, L.L.C.)
- Project Quality Control Manager (Steve Draughon, C.H. Fenstermaker & Associates, L.L.C.)

The specific responsibilities and duties of these individuals are described as follows:

Section 5.1 Project Manager

The Project Manager is responsible for coordination with both the Quality Assurance Manager and the Quality Control Manager in the development and implementation of the Quality Control Plan. Specifically, the Project Manager will do the following:

- Coordinate the quality control process;
- Assign qualified professionals to perform project tasks and activities;
- Ensure all professionals involved in performing project tasks and activities have a clear understanding of the scope and objectives of the project;
- Ensure all professionals involved in the project are aware of the project schedule;
- Ensure all professionals working on the project have a clear understanding of the project requirements and provisions for work;
- Manage the documentation of the quality control process; and
- Manage and ensure that the quality control procedures have been properly followed.

Additionally, the Project Manager, in collaboration with the Project Quality Managers, will:

- Ensure sub-consultants follow this Quality Control Plan;
- Schedule document reviews and ensure all comments from these reviews are resolved prior to submitting the deliverables to LADOTD;
- Evaluate the final products and ensure the deliverables meet the objectives of the project;
- Resolve any disagreements between the designer and originator of the comments (i.e. Document Reviewer)

Section 5.2 Quality Assurance Manager

The primary responsibility of the Quality Assurance Manager is to coordinate and enforce the Quality Control activities required to achieve the quality requirements. The Quality Assurance Manager will liaise with the Quality Control Manager, project task leaders, and the Project Manager throughout the Project to ensure that the Quality Control Plan is implemented and followed properly. This will include working directly with the preparers and reviewers to facilitate document control workflow, assisting with document formatting, and ensuring proper documentation.

Specifically, the Quality Assurance Manager will do the following:

- Ensure the desired level of quality is met for all submittals;
- Verify quality control;
- Develop techniques to improve efficiency; and
- Ensure that conformance with task scope is achieved

Section 5.3 Quality Control Manager

The primary responsibility of the Quality Control Manager is to coordinate the Quality Control activities required to achieve the quality requirements. The Quality Control Manager will liaise with the designer, individual task leaders, and the Project Manager throughout the Project to ensure that the Quality Control Plan is implemented and followed properly. This will include working directly with the preparers and reviewers to facilitate document control workflow, assisting with document formatting, and ensuring proper documentation.

Specifically, the Quality Control Manager will do the following:

- Monitor progress in accordance with the Quality Control Plan;
- Flag potential problem areas that require in-depth review; and
- Review of all documentation and deliverables

Section 6.0 Quality Control Activities

The Consultant will perform Quality Control review on all technical documents and other deliverables such as roadway and drainage design, plan preparation, reports, and calculations.

Section 6.1 Kick-off Meeting

At the commencement of the Project task orders, the Project Manager will coordinate a Kick-off Meeting with the Quality Control team for this project. At this meeting, the Project Manager will explain the Quality Control process, discuss the project's quality objectives and Consultant members' Quality Control roles and responsibilities, and distribute a copy of the scope of services for the project along with the project schedule (when applicable). The Project Manager will prepare and distribute meeting notes to all attendees.

Section 6.2 Reviewing Project Requirements

The initial Quality Control review is the responsibility of each individual professional who prepares deliverables. The second Quality Control review is the responsibility of an independent peer reviewer to "cross check" and provide unbiased feedback to the original preparer, as well as confirm that the deliverables meet the Project scope and that the findings and conclusions meet the contract requirements. Items to review for quality include but are not limited to technical adequacy, appropriate level of analysis, completeness and accuracy of the information presented, and clarity of reporting. During the reviews, the Document Reviewers will also check documents and reports for spelling, grammar, and format for compliance with quality control standards.

Section 6.3 Quality of Sub-Consultant's Work

The sub-consultant previously identified on this Project will be expected to follow this Quality Control Plan. The Consultant's Project Manager will regularly contact the sub-consultant to monitor their progress on this Project.

Section 6.4 Quality Assurance Review

The Quality Assurance Review will be performed by the Quality Assurance Manager to verify the deliverables meet the project scope. Any comments from the Quality Assurance reviews will be addressed by the respective project Consultant members.

Section 7.0 Procedures for Reviewing Documents

Section 7.1 Quality Control Procedure

The Originator (Designer) will:

1. Affix the Quality Control Tracking Stamp (see **Figure 7-1**) to the cover sheet of each document to be reviewed.
2. Initial and date the documents ready for review and submit them to the Quality Control reviewer along with appropriate supporting documentation, reference materials, and list of assumptions (when applicable) that will aid the Quality Control reviewers to complete review of the document.

Quality Control Review		
	Initials	Date
Designer		
Quality Control Manager		
Quality Assurance Manager		
Project Manager		

Figure 7-1 Quality Control Tracking Stamp

The Document Reviewer will:

1. Highlight or note items that are correct with yellow on hard copy material if provided for review.
2. Document on quality control checklist items requiring attention
3. Show corrections requiring changes or attention in Red on hard copy material if provided for review.
4. Initial and date the document reviewed.
5. Return document and checklists reviewed to the Originator.

The Originator will then:

1. Review all items marked in red and make appropriate corrections on hard copy material if provided for review.
2. If quality control checklist is utilized, the Originator is to respond to comment made by the reviewer with an agreement to the comment, or a reason why the Originator disagrees.
3. Resolve disputed items with the Quality Control Document Reviewer and with the Project Manager, if necessary.
4. Initial and date the document and provide the Document Reviewer with revised document and the disposition of the original comments.

The Document Reviewer will then:

1. Ensure all comments have been addressed. The Quality Control Document Reviewer marks correct items with a green check and incorrect items with a green circle and remark.
2. Initial and date the document reviewed and return the document to the Originator for incorporation.
3. Coordinate with the Originator to ensure all comments are resolved.
4. Sign the Quality Control Stamp

Quality Assurance Manager will then:

1. Verify that the quality control has been properly performed and deliverables meet the Project scope.
2. Sign the Quality Control Stamp and submit the document to the Project Manager.

The Project Manager will:

1. Resolve any disagreement in comments between the Originator and the Quality Control Reviewer.
2. Verify that the quality control has been properly completed.
3. Sign Quality Control Stamp and attach the signed certificate with the submittal.

Section 7.2 Quality Control Documentation

The Quality Control and Assurance activities will be documented in the appropriate Quality Control file established for this Project. The quality Control file will be stored at the prime consultant's office identified in Section 1 of this Plan and made available to LADOTD Project Manager upon request. Items to be stored include:

- Pertinent Correspondence
- Checklists
- Calculations
- Design Plans
- Reports/Technical Memos
- Document Reviewed (including corrections made, and the follow-up actions) and Submittals
- Quality Control Approvals

Section 8.0 Quality Control Plan Signatures

Approved by: Dax Douet, P.E., Principal

Signature: _____ Date: 11-20-25

Approved by: Rhett Hebert, P.E., CFM, Project Manager

Signature: _____ Date: 11-20-25

Approved by: Ian Trahan, P.E., Quality Assurance Manager

Signature: _____ Date: 11-20-25

Approved by: Steve Draughon, P.E., Quality Control Manager

Signature: _____ Date: 11-20-25

22. Sub-consultant information:

Firm Name (Name must match exactly as registered with Louisiana's Secretary of State (SOS): including punctuation, include screenshot(s) from SOS at the end of Section 20)	Address	Point of Contact and email address	Phone Number
ARDAMAN & ASSOCIATES, INC.	3867 Plaza Tower Dr. Baton Rouge, La 70816	Jerry Outlaw JOutlaw@Ardaman.com	(225) 324-7527

23. Location:

C. H. Fenstermaker & Associates, L.L.C.