



CONTRACT NOS. 4400035420, 4400035421, AND 4400035422

IDIQ Bridge Preservation Services Statewide

June 30, 2026



SECTIONS
1-15



DOTD FORM: 24-102

(Revised August 11, 2025)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1. Contract Name as shown in the advertisement	IDIQ Contracts For Bridge Preservation Services Statewide
2. Contract Number(s) as shown in the advertisement	CONTRACT NOs. 4400035420, 4400035421, AND 4400035422
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name (name must match exactly as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)	 ARCADIS ARCADIS U.S., INC.
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0002808 DUNS 057690414
6. Prime consultant mailing address	6100 Corporate Blvd., Suite 325 Baton Rouge, LA 70808
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	6100 Corporate Blvd., Suite 325 Baton Rouge, LA 70808
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Osama Shahawy, PE Project Manager P. 469 865 9791 E. osama.shahawy@arcadis.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Kristen Kasmire, PE, SE Principal-in-Charge / Senior Bridge Engineer P. 470 218 3923 E. kristen.kasmire@arcadis.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.

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.



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

Date: June 30, 2026

Firm(s):

N/A

12 DISCIPLINE TABLE:

As indicated in the advertisement, insert a completed table here. The percentages for the prime and sub-consultants must total 100% for each past performance evaluation discipline, as well as the overall total percent of the contract.

The only past performance evaluation disciplines to be used are listed in the drop down in each row (Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic). Remove rows as needed.

Discipline(s)	% of Overall Contract	Arcadis	SDR	Modjeski & Masters	Moffatt & Nichol	Forte & Tablada	Stanley	KTA-Tator	Lazenby	Ardaman	SAM Formerly SJB Group	Each Discipline must total to 100%
Bridge	72%	58%	14%	14%	8%	3%		3%				100%
Road	10%	60%					40%					100%
Environmental	5%	100%										100%
Traffic	5%	90%					10%					100%
Geotech	4%									100%		100%
Survey	4%								50%		50%	100%
Identify the percentage of work for the <u>overall contract</u> to be performed by the prime consultant and each sub-consultant.												
Percent of Contract	100%	57.2%	10.1%	10.1%	5.7%	2.2%	4.5%	2.2%	2.0%	4.0%	2.0%	

13 TEAM SIZE:

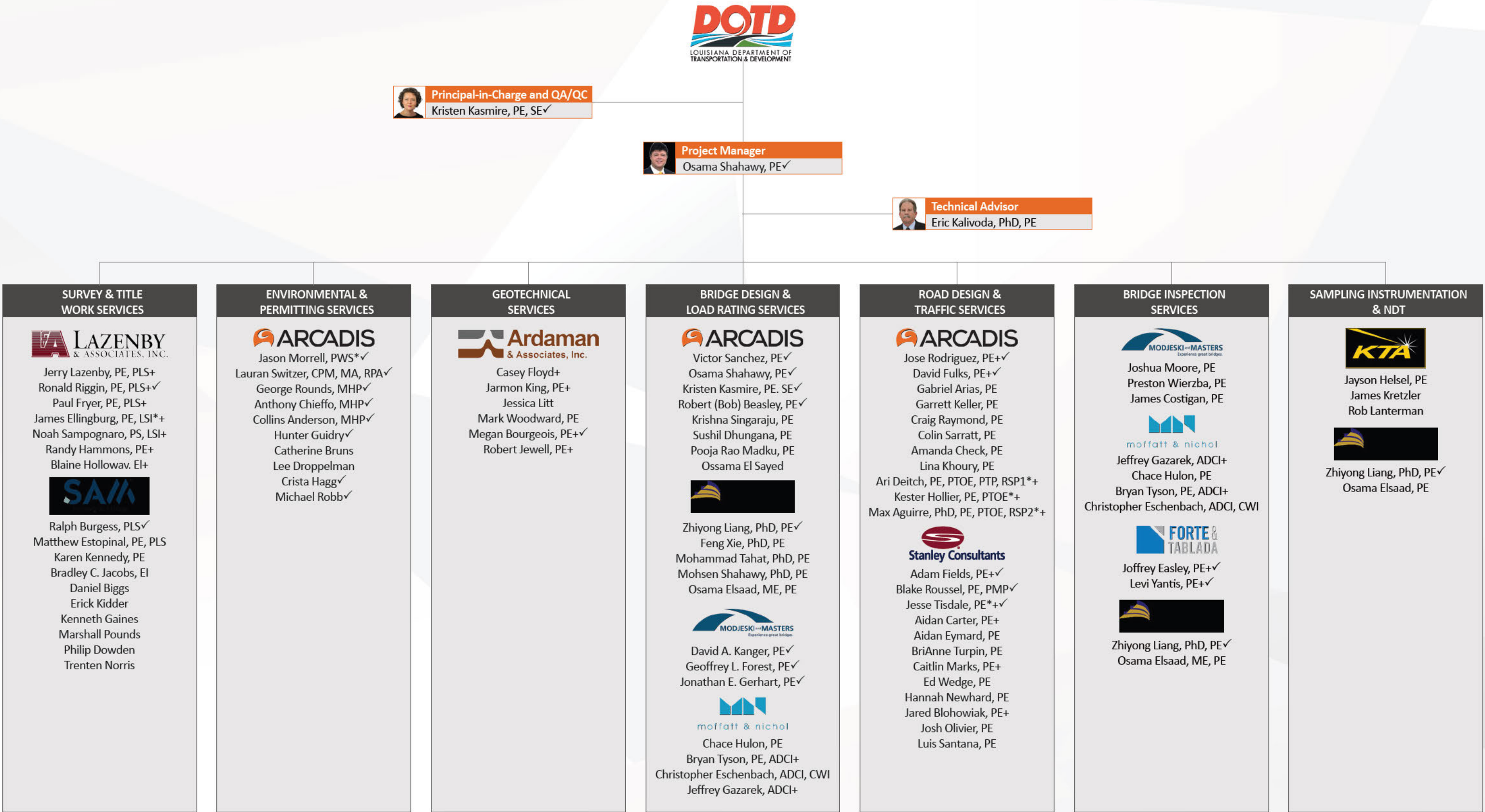
For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify "Other (must specify)" and include the classification title inside the parentheses. The DOTD Job Classification(s) to be used can be found at the following link: <https://bit.ly/DOTDJobClassifications>

Firm name	DOTD Job Classification	Number of personnel committed to this contract*	Total number of personnel available in this DOTD Job Classification (if needed)
	Archaeologist	2	5
	Biologist/Wetlands	3	5
	Engineer	10	13
	Engineer - Other	1	6
	Environmental Manager	1	1
	Historian	2	4
	Principal	1	3
	Professional	1	2
	Supervisor - Eng	8	9
	Supervisor - Other	1	4
	Principal	1	2
	Supervisor - Eng	2	3
	Engineer	3	9
	Principal	1	1
	Administrative	1	1
	CADD Technician	1	3
	Engineer	2	4

Firm name	DOTD Job Classification	Number of personnel committed to this contract*	Total number of personnel available in this DOTD Job Classification (if needed)
	Inspector - Bridge	6	7
	Senior Technician	1	2
	Supervisor - Eng	2	2
	Engineer	3	7
	Instrument Man	2	2
	Party Chief	2	2
	Rodman	2	2
	Supervisor - Eng	1	3
	Surveyor	1	2
	Principal	1	1
	Supervisor - Eng	1	1
	Engineer	1	1
	Supervisor - Eng	3	5
	Supervisor - Other	2	10
	Principal	1	2
	Clerical	1	4
	Supervisor - Eng	3	5
	Engineer	7	10
	Engineer Intern	3	5
	CADD Technician	2	5

Firm name	DOTD Job Classification	Number of personnel <u>committed</u> to this contract*	Total number of personnel available in this DOTD Job Classification (if needed)
	Senior Technician	1	2
	Administrative	1	1
	CADD Technician	2	2
	Clerical	1	2
	Engineer	1	4
	Engineer Intern	1	1
	Principal	2	3
	Senior Technician	8	9
	Supervisor - Eng	3	3
	Supervisor - Other	3	4
	Technician	11	15
	Surveyor	2	5
	Technician	2	5
	Party Chief	2	5
	Instrument Man	2	5
	CADD Drafter	1	2
	Supervisor - Other	2	2
	Senior Technician	2	3
	Principal	1	1

*For evaluation purposes only, and as referenced in the Scope of Services on page 2 of IDIQ advertisements only, the consultant shall assume the number of concurrently active task orders specified in the advertisement and shall identify the number of committed personnel accordingly.



LEGEND:
* Traffic Engineering Analysis Process & Report Training + Work Zone Training ✓ Meets MPR

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	Kristen Kasmire, PE, SE (29 years' experience)	 ARCADIS	PE. 43461 – Civil	LA	09/30/2027
	Robert Beasley, PE (>36 years' experience)	 ARCADIS	PE. 34159 – Civil	LA	03/31/2027
2	Kristen Kasmire, PE, SE (29 years' experience)	 ARCADIS	PE. 43461 – Civil	LA	09/30/2027
	Robert Beasley, PE (>36 years' experience)	 ARCADIS	PE. 34159 – Civil	LA	03/31/2027
3	Kristen Kasmire, PE, SE (29 years' experience)	 ARCADIS	PE. 43461 – Civil	LA	09/30/2027
	Robert Beasley, PE (>36 years' experience)	 ARCADIS	PE. 34159 – Civil	LA	03/31/2027
4	Osama Shahawy, PE (36 years' experience)	 ARCADIS	PE. 35652 – Civil	LA	09/30/2026
	Victor Sanchez, PE (28 years' experience)	 ARCADIS	PE. 33976 – Civil	LA	09/30/2026
	Joffrey Easley, PE (22 years' experience)	 FORTE & TABLADA	PE 31542 - Civil	LA	03/31/2027
	Levi Yantis, PE (12 years' experience)	 FORTE & TABLADA	PE 42390 - Civil	LA	9/30/2026
	Zhiyong Liang, PhD, PE (29 years' experience)	 Engineering SDR Consultants	PE.34873 - Civil	LA	03/31/2028
5	Geoffrey L. Forest, PE (23 years' experience)	 MODJESKI and MASTERS	PE. 45721 – Mechanical	LA	09/30/2027
6	Jonathan E. Gerhart, PE (27 years' experience)	 MODJESKI and MASTERS	PE. 43052 – Electrical	LA	03/31/2027

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
7	David A. Kanger, PE (29 years' experience)		PE. 29048 – Civil	LA	09/30/2026
8	Jose L. Rodriguez, PE (26 years' experience)		PE. 30492 – Civil	LA	03/31/2027
	David Fulks, PE (>30 years' experience)		PE. 30151 – Civil	LA	09/30/2026
	Adam Fields, PE (20 years' experience)		PE. 35614 – Civil	LA	09/30/2026
	Jesse Tisdale, PE (13 years' experience)		PE. 40972 – Civil	LA	03/31/2027
	Blake Roussel, PE, PMP (23 years' experience)		PE. 33279 – Civil	LA	09/30/2027
9	Megan Bourgeois, PE (20 years' experience)		PE. 36725 – Civil	LA	03/31/2026
10	Ralph Burgess, PLS (27 years' experience)		PLS. 5040 – Survey	LA	09/30/2026
	Ronald Riggan, III, PE, PLS (13 years' experience)		PLS. 5119 – Survey	LA	03/31/2027
11	Lauran Switzer, MA, RPA (23 years' experience)		Section 106 of the National Historic Preservation Act Training	US	N/A
12	Michael Robb (13 years' experience)		-	-	-
	Crista Haag (27 years' experience)		-	-	-
13	George Rounds, MHP (13 years' experience)		-	-	-

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
13	Collins Anderson, MHP <i>(24 years' experience)</i>	 ARCADIS	-	-	-
	Anthony Chieffo, MA, RPA <i>(11 years' experience)</i>	 ARCADIS	-	-	-
14	Jason Morrell, PWS <i>(26 years' experience)</i>	 ARCADIS	-	-	-
	Hunter Guidry <i>(29 years' experience)</i>	 ARCADIS	-	-	-



SECTION
16



Firm employed by. 			Meets MPR No. 4	
Name	Osama Shahawy, PE		Years of relevant experience with this employer	6
Title	Bridge Practice Manager		Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization		MS / 1991 / Civil (Structures), Florida State University BS/1983/Civil Engineering		
Active registration number / state / expiration date		PE.0035652 / LA / Exp. 09/30/2026		
Year registered	2010	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Project Manager / Structural Rehabilitation Lead		
Experience dates		Experience and qualifications relevant to the proposed contract		
		Mr. Shahawy has over 36 years of experience in structural bridge engineering, working on projects throughout Louisiana and the Southeast. He served as PM or EOR on 100+ projects involving extensive bridge plans, specifications, and estimates, as well as preservation, rehabilitation, and bridge replacement. His experience includes coordinating teams of engineers and other technical personnel in the preparation of bridge PS&E design/ management, including on- and off-system bridges in rural/urban areas with heavy utilities & complex TCP. Additionally, he has extensive experience working on complex structures, including segmental, truss, and multi-level interchange bridges. Mr. Shahawy provides solid construction support capabilities—a benefit that ensures constructible technical solutions and more complete construction documents. Leveraging his decades of experience, he will verify accuracy, check for compliance, review comments, and ensure that agency and stakeholder comments and concerns are addressed.		
10/20 – Ongoing		I-10: LA 415 to Essen Lane on I-10 and I-12, LADOTD, Baton Rouge, LA. Engineer of Record (EOR). A Construction Management at Risk (I10-CMAR) project to improve I-10 through widening and reconstruction. This project involved <i>bridge replacement and rehabilitation</i>, interchange and ramp modification, shoulder widening, and auxiliary lane(s). <i>Responsibilities include the design and detailing of the substructures for the EB&WB Terrace-Washington mainline bridges, the I-110 to I-10 EB ramp, and the I-110 widening.</i> Including the <i>temporary and permanent bridge widening</i> for the existing WB mainlane. <i>Convert the existing ingress ramp to a bridge</i> to widen to the existing WB mainlane. All designs are performed <i>using AASHTO LRFD Bridge Design Specifications and BDEM criteria for live loads, dead loads, wind, seismic, and other applicable loads.</i> <i>Coordinated with a team of engineers</i> on design tasks and planned production. Provided the QA/QC and construction cost estimate at different submittal stages.		
10/22 – Ongoing		Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Replacement (OSBR) Program, District 02, LADOTD, LA. Project Manager to provide the preliminary and final designs for 7 bridges across District 02. Responsibilities include <i>coordinating teams</i> of engineers. Sub-consultants and other technical personnel in the preparation and <i>development of General Plans, foundation layouts</i>, and super-elevation diagrams, as well as <i>structural design, detailing, and load ratings for various bridge components</i> such as slab spans, bent caps, approach slabs, etc. Prepared and <i>maintained project schedule, meeting minutes, and coordination with LADOTD PM and Parshies.</i> Reviewed final plans and addressed the DOTD comments. .		
04/12 – 05/13		LA 1 over I-19 Bridge Rehabilitation, Rapides Parish, LA. <i>Project Manager, Engineer of Record.</i> Provided inspection and rehabilitation design for the IDIQ bridge preservation contract. The existing four-span steel plate girder bridge exhibited uneven settlement and rotation at the abutments, necessitating rehabilitation to stabilize movement and restore the bridge's integrity. Responsibilities included preparing rehabilitation plans and overseeing tasks related to preparing geometric layout plans for preliminary and final plans, and modifying the existing structure by shifting the abutment locations to add a span on each side. Prepared the <i>specifications and</i>		

	<i>estimates, per LADOTD BDEM.</i> He performed QA/QC, prepared construction cost estimates, and reviewed/revised plans in response to LADOTD comments.
07/11 – 05/13	MacArthur Drive Bridge Interchange, Rapides Parish, LA. Structure Manager, Engineer of Record. Responsible for widening, revising, and redesigning the MacArthur Drive Interchange, completing Phase 1. The design and plan production are related to the changes required for Ramps 7 and 8. <i>Design Inverted-T Caps and unique geometric columns</i> for piers. Responsible for the design and production of geometric and span layout modifications, superstructures, and substructures. <i>Review the plans for accuracy and completeness.</i> Reviewed all design products for compliance with applicable requirements and good engineering practice, as directed by a Project Quality Control Plan.
07/11 – 05/13	Mississippi River Bridge at Vicksburg, Mississippi, LA. Project Manager, Engineer of Record. Responsible for the four-lane continuous main steel-truss through-deck bridge that covers a total length of 1,716 ft. and a width of 60 ft. The central truss consists of two symmetrical 640.5 ft. cantilever spans and one 435 ft. drop span. The approach consists of 101 prestressed-concrete spans and reinforced-concrete pier caps. Responsible for reviewing as-built plans and all <i>rehab project plans</i> ; indexed and developed inspection forms; supervised and reviewed results from the <i>3D computer model; model calibration; performed QA/QC according to LADOTD BDEM</i> , and assisted in developing the final report.
07/11 – 06/12	I-10 over Calcasieu River - Lake Charles Bridge, Lake Charles, LA. Project Manager, Engineer of Record. Responsible for bridge inspection that includes four steel deck trusses and a cantilever steel thru-truss for the central span portion of the bridge, covering a total length of 6,617 ft. with a width of 62.67 ft. Reviewed the as-built and rehab project plans. <i>Developed inspection forms</i> ; performed load rating based on the present condition, capacity, and loading of the bridge; <i>rated the gusset plate and connection systems</i> following the Federal Highway Administration (FHWA)-IF-09-014; <i>performed QA/QC</i> and assisted in developing the final report.
09/10 – 09/12	Load Rating of 230 Bridges Statewide, Baton Rouge, LA. Project Manager/ Team Leader, Engineer of Record. The project consisted of all necessary engineering services to perform structural load ratings for approximately <i>230 non-complex bridges statewide</i> using the Load and Resistance Factor Rating (LRFR) method. <i>Performed the evaluation and load rating</i> of 80 bridges, comprised of 36 concrete slab spans, three void slab spans, ten precast deck panels with transverse post-tensioning spans, six quad-beam girder spans, two <i>steel plate girder continuous spans</i> , two rolled girder spans, 12 (AASHTO) Type II, III, IV, or BT-72 girder spans, eight bridges with multiple units of varying girder type, one Dual steel plate central girder system supporting transverse steel plate floor beams and transverse rolled steel stringers. Supervised the daily activities of the <i>load rating</i> team, checked results, performed <i>QA/QC</i> , and <i>developed final rating reports</i> according to LADOTD BDEM.
05/12 – 05/13	LADOTD, Condition Evaluation and Rehabilitation of Fish Creek Bridge, Baton Rouge, LA. Structure task lead, Engineer of record for condition and assessment. Fish Creek Bridge has 14 spans with reinforced-concrete T-beams and multi-column bents. It was originally constructed in 1946 and widened in 1977. Responsible for <i>design of the rehabilitation plans</i> . repairs included <i>strengthening the reinforced concrete pile caps, prestressed piles, and RC girders, and replacing the concrete deck</i> and expansion joints.
7/09 – 11/10	Gilleland Creek Bridge, Cap Metro, Austin, TX: Project Manager and EOR to develop plans and specifications for Civil War Era bridge replacement. The existing bridge is a 13-span timber structure carrying heavy railroad traffic. Responsibilities include developing stage construction sequence plans to replace the existing bridge while maintaining daily track traffic. ice, including design and details of the precast concrete bridge. H-Piles were driven through the existing bridge deck and cut to the design length. The superstructure was replaced by removing one span at a time while bracing the existing structure. Precast bent caps and a box girder were then placed, and the rail was installed, opening the bridge to rail traffic. Prepared final plans; prepared preliminary construction estimates and construction specifications. Provide post-design construction support; review construction schedule, shop drawings, welding specifications, and certificates; monitor field work progress. Addressing and providing recommendations for construction errors and field condition changes.

Firm employed by.



Meets MPR Nos 1, 2, & 3

Name	Kristen Kasmire, PE, SE		Years of relevant experience with this employer	7
Title	Senior Bridge Engineer		Years of relevant experience with other employer(s)	18
Degree(s) / Years / Specialization			MS / 2004 / Civil Engineering, Georgia Institute of Technology BS / 1996 / Civil Engineering, Georgia Institute of Technology	
Active registration number / state / expiration date			PE.0043461 / LA / Exp. 09/2027	
Year registered	2019	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Principal-in-Charge & QA/QC	
Experience dates	Experience and qualifications relevant to the proposed contract			
	Ms. Kasmire has more than 25 years of experience designing structures including bridges, retaining walls, and other transportation facilities, and managing transportation projects from concept through construction. She has worked for a variety of clients including state DOTs, counties, cities, contractors, and private developers. She has experience in both design-bid-build and design-build projects. She uses her diverse experience to deliver innovative solutions. Her role on this contract is to provide QAQC and serve as a technical advisor for any structural design components that may be required.			
05/20 – 11/20	Alphonse Forbes Bridge at Sandy Bayou Replacement, City of East Baton Rouge, Watson, LA. Bridge Quality Assurance and Technical Advisor. Oversight of bridge design and plan production to verify project met the requirements of the City, complied with AASHTO and City policies, and underwent Arcadis Quality Control and Quality Assurance process. The project will replace an existing bridge on Alphonse-Forbes Road over Sandy Creek with a new 9-span flat slab bridge on pile bents. The project was designed to fit within the existing right-of-way and meet the required hydraulic opening.			
01/20 – Ongoing	US 90 Business Signing Upgrades, LADOTD, Jefferson and Orleans Parishes, LA. Structures Technical Advisor. Provide high-level structural guidance and review for the replacement of overhead and roadside sign structures. The existing and proposed sign structures are attached to existing bridges of various configurations and material types which required unique structural solutions to handle the current design loads without negatively impacting the existing bridges.			
03/16 – 08/18	SR-11 Bridge Replacement over Apalachee River, Walton/Barrow Counties, GA. Bridge Design Lead. This project will replace a structurally deficient bridge and provide operational improvements to traffic on SR 11. The project will relocate SR 11 west of its present location by 0.57 miles. The proposed new bridge will be a 280' x 44' 3-span PSC beam bridge located just west of the existing bridge. The relocated SR 11 will consist of two 12' lanes with 10' rural shoulders (4' paved). Traffic will be maintained on the existing bridge while the proposed bridge is constructed, ensuring local and through traffic can continue during construction.			
10/14 – Ongoing	Buena Vista Road Bridges (Spider Web Network), Columbus, GA. Bridge Design Lead for this TIA funded project will replace an at-grade railroad crossing with a grade separated crossing, improving safety and reducing travel delays on Buena Vista Road. Approximately 7 trains per day cross Buena Vista Road causing significant delays to the 27,000 cars traveling that corridor. Through analysis of traffic patterns in the area, the corridor will be re-aligned and several intersections reconstructed to improve traffic flow and reduce congestion. The project will require staging of traffic to construct the grade			

	separation while limiting impacts to the traveling public. The project also includes 4 retaining walls and the replacement of an existing bridge carrying Buena Vista Road over Bull Creek. The bridge will be replaced using stage-construction.
09/15 – 06/18	I-85 Express Lanes Design Build, GDOT, Gwinnett County, GA. Bridge Design Lead. Responsible for producing design plans for impacted bridges to accommodate expansion of a congested Metro Atlanta interstate. The design plans propose to completely replace the southbound (SB) bridge over I-985; constructing one new bridge to transport I-85 northbound (NB) managed lane over general purpose lanes and widening I-85 NB, and SB bridges over SR 20. The SB bridge over I-985 is a three-span PSC beam bridge, utilizing 74-inch bulb tee beams to span up to 163 feet. The bridge is supported on concrete piers with a mix of spread and pile footings and will be stage-constructed to maintain interstate traffic. NB managed lane bridge over I-985 is also a three-span bridge, using 78-inch Florida I-Beams to span up to 183 feet. Stability of this long-span beam was carefully analyzed during manufacture, transport, erection and in the final condition. The twin bridges over SR 20 are four-span bridges with span lengths ranging from 52 to 96 feet. The widening will be constructed of 54-inch bulb tee beams supported on reinforced concrete intermediate bents and steel h-pile end bents. Rock is shallow around the bridge and foundations will be a combination of spread footings founded on rock and pile supported footings.
09/16 – Ongoing	I-16 / I-95 Interchange Widening, GDOT, Chatham County, GA. Project Manager and Bridge Design Lead. Responsible for the delivery of roadway and bridge costing plans, full survey database, and an approved environmental document (Categorical Exclusion) to support this Interchange Reconstruction and Interstate Widening project. As bridge lead, prepared conceptual staging plans for eight bridge replacements and provided cost estimates for the replacements, two new flyover ramps and some minor repair work. As the Project Manager, leads a multi-disciplinary team and works closely with GDOT's Office of Innovative Delivery to confirm the costing plans and supporting documents are delivered on schedule, enabling the Department to select the Design-Build team in June 2018.
10/14 – 08/16	I-75 South Managed Lanes Design-Build, GDOT, Henry County, GA. Bridge Design Lead. For the design of variable-rate toll lanes along I-75 between SR 155/ McDonough Road and SR 138 / Stockbridge Highway, GDOT's innovative DB approach is being used to expedite project delivery. The project includes two reversible lanes in the I-75 center median from SR 138 in south Clayton County to just north of SR 20, and one reversible lane in the center median extending to SR 155 in Henry County. The project uses three slip access locations to provide ingress/egress from the managed lanes to/from I-75 general purpose lanes. A new dedicated "express-lane only" access interchange is proposed south of Jonesboro Road with a connector road back to Jonesboro Road. A flyover ramp to I-675 at the northern terminus is included, providing slip ramps on I-675 near SR 138.

Firm employed by.



Name	Eric Kalivoda, PhD, PE		Years of relevant experience with this employer	2
Title	Principal Transportation Engineer		Years of relevant experience with other employer(s)	38
Degree(s) / Years / Specialization			PhD / 1995 / Doctor of Philosophy, North Carolina State University MS / 1983 / Civil Engineering, University of Arizona BS / 1980 / Civil Engineering, Louisiana State University	
Active registration number / state / expiration date			PE.024603 / LA / Exp. 09/30/2026; Also a licensed Civil Engineer in AZ and NC	
Year registered	1992	Discipline	Civil Engineer and Environmental Engineer	
Contract role(s) / brief description of responsibilities			Technical Advisor	
			As a Technical Advisor, Dr. Kalivoda brings 40 years of experience in the transportation industry through his work in state transportation departments including detailed technical work, policy setting, program development, guidance and oversight, and administration. He has worked with a numerous stakeholders including citizens, community groups, business owners, associations, realtors and real estate developers, regulatory agencies, local, state, and federal elected officials. His technical work was focused on traffic engineering, highway safety, highway geometric design, and metropolitan and statewide transportation planning. He has been instrumental in providing guidance and direction necessary to advance numerous major projects through the project development process including, more recently, the I-10 reconstruction and expansion in Baton Rouge, the I-10 Calcasieu River Bridge, the I-10 at Loyola Avenue Interchange in Kenner, the I-49 North Inner City Connector in Shreveport, and a new Mississippi River Bridge south of the Baton Rouge Metropolitan Area.	
Experience dates			Experience and qualifications relevant to the proposed contract	
03/23 – 01/24			Louisiana Department of Transportation and Development (LADOTD), LA. <i>Secretary</i> . Served on the Governor's cabinet, advising on public policy and collaborating with federal, state, and local officials to resolve issues and pursue opportunities. Worked with the legislature and industry partners to enact transportation and infrastructure legislation. Provided executive leadership for over 4,200 employees across six offices and 58 sections, overseeing areas such as Management and Finance, Engineering, Operations, Planning, Multimodal Commerce, Legal, and Innovative Procurement . Direct reports included senior leaders such as the Deputy Secretary, Chief Engineer, and others. Managed operating and capital budgets and led during emergencies as a member of the Unified Command Group. Focused on key challenges: (1) implementing the Infrastructure Investment and Jobs Act; (2) administering one-time funding for large-scale projects ; (3) addressing construction inflation impacts; (4) navigating generational leadership transitions; and (5) preparing for a smooth administrative transition.	
02/10 – 03/23			Office of the Secretary, LADOTD, LA. <i>Deputy Secretary</i> . As the second highest official of the Department, provided strategic leadership for over 4,200 employees across six offices and 58 sections, covering areas like Management and Finance, Planning, Engineering, Operations, and Multimodal Commerce. Directly oversaw Compliance Programs (Disadvantaged Business Enterprise, Small Business Enterprise, Title IV and VII, etc.), Local Public Agency Programs, the internal investigator, and a process re-engineering section for six years. Managed operating and capital budgets and represented the Department on state and national committees. Chaired the Appeals Board to address customer disputes and the Curriculum Council to develop training programs. Key accomplishments included: (1) leading "Operation 57," a comprehensive organizational	

	review; (2) guiding the establishment of the Diversity and Inclusion Initiative; (3) revamping training programs by eliminating outdated courses and addressing internal and external issues; (4) creating the Road Transfer Program to shift non-essential highways to local governments; (5) overseeing the 2015 update of the Louisiana Statewide Transportation Plan; (6) forming an Autonomous and Connected Vehicle Technology Team to shape policy and application; (7) advancing major projects through development processes ; and (8) designing a new state-funded program for rehabilitating locally-owned roads, pending legislative approval.
02/05 – 02/10	Office of Planning and Programming, LADOTD, LA. Assistant Secretary. Oversaw three sections responsible for statewide and metropolitan transportation planning, highway project programming, mapping, safety policy development, bridge and pavement management, traffic monitoring, corridor studies , and project conceptualization. Represented the Department on the Louisiana Economic Development Council, American Association of State Highway and Transportation Officials’ Standing Committee on Planning, and the National I-10 Freight Corridor Coalition. Key accomplishments included: (1) leading post-Hurricane Katrina and Rita recovery efforts through funding requests and education on transportation needs; (2) chairing the Transportation Task Force for Louisiana’s Recovery Authority; (3) updating the Louisiana Statewide Transportation Plan ; (4) establishing the multi-state-funded Institute for Trade and Transportation Studies; (5) directing the Freight Transportation Strategic Plan; and (6) advancing efficiency improvements within DOTD.
07/99 – 08/05	Office of Planning and Programming, LADOTD, LA. Deputy Assistant Secretary. Under the direction of the Assistant Secretary, oversaw the work of four sections engaged in statewide and metropolitan transportation planning , highway project programming, mapping, environmental impact evaluation, highway safety policy and program development, bridge and pavement management system development, highway inventory and traffic monitoring programs, corridor studies, and development of conceptual designs, scopes, and budgets for selected projects. Served as the Department’s representative on the Louisiana Economic Development Council and as Vice Chair of the Infrastructure and Transportation Industries Task Force. Also served as Louisiana’s technical representative in the precedent-setting National I-10 Freight Corridor Study. Significant accomplishments included: (1) directing the update of the Louisiana Statewide Transportation Plan – completed in 2003; (2) active participation in updating Louisiana: Vision 2020, the State’s economic development master plan; (3) elevating the status, funding, staffing, and visibility of the Highway Safety Program; and (4) serving in a major role in formalizing and improving the efficiency and effectiveness of the highway project delivery process.
05/94 – 07/99	Louisiana Department of Transportation and Development, LA. Engineer Manager. Directed staff engaged in statewide transportation planning, multistate planning efforts, and the development of bridge and pavement management systems . Served in a leadership role on the Infrastructure [and Transportation Industries] Task Force of the Louisiana Economic Development Council. Also served as Louisiana’s technical representative in the precedent-setting Latin American Trade and Transportation Study. Significant accomplishments include: (1) organizing and leading a 60-member task force to formalize and improve the DOTD Highway Project Selection Process including the capital budget allocation process (referred to as the “Budget Partition”); (2) extensive participation in developing the Louisiana Statewide Intermodal Transportation Plan, Louisiana’s first multimodal statewide transportation plan; (3) active participation in developing Louisiana: Vision 2020, particularly in the development of infrastructure benchmarks; and (4) serving as Louisiana’s representative on a special transportation task force of the Southern Governors’ Association.

Firm employed by.



Meets MPR Nos. 1, 2, & 3

Name	Robert (Bob) Beasley, PE		Years of relevant experience with this employer	36
Title	Principal Bridge Engineer		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			BS / 1989 / Civil Engineering, University of Akron, Structures	
Active registration number / state / expiration date			PE. 0034159 / LA / Exp. 03/31/2027	
Year registered	2008	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities			Bridge Design & Load Rating Services	
Experience dates	Experience and qualifications relevant to the proposed contract			



Mr. Beasley has more than 36 years of relevant design experience in management and design of bridges and structures. He has been exposed to a variety of projects working for many municipalities such as counties, cities, and park districts and other clients such as Departments of Transportation, the US Army Corps of Engineers, CSX Transportation, and Norfolk Southern. His varied project experience includes numerous railroad structures, highway underpass and overpass bridges, bridge rehabilitations, pedestrian bridges including cable-stayed, and retaining walls. Bob has inspected and load rated many bridges. Bob has inspected and load rated many bridges. Bob is a member of AREMA Subcommittee 8 – Concrete Structures & Foundations assisting with the development of structural specifications.

11/17 – Ongoing

I-10: Highland to LA 73 Design-Build: LADOTD, East Baton Rouge Parish, LA. *Independent Design Reviewer* for performing an independent design assessment and analytical check of the new interstate bridges over Highland Road (LA 42) as well as for the **widening and rehabilitation** of the interstate bridges over Bayou Manchac. The Highland Road bridge was 310'-0" long with a 190'-0" steel plate girder main span. The Bayou Manchac bridge was 200'-0" long with 25'-0" slab spans on pile bents. Arcadis completed separate, **independent calculations** of the deck, girders, slab spans, bearings, splices, and substructure using DOTD approved design software.

11/14 – 12/14

Dearborn Division Hawley Street Bridge Repairs, Norfolk Southern Corp., Toledo, OH. *Lead Bridge Engineer* for the repair of a three span, ballasted concrete deck rolled beam superstructure supported on concrete wall abutments and steel piers. The Hawley Street Bridge was hit and damaged by a snow plow. The emergency design included the replacement of a portion of the concrete deck, the sacrificial end plate girder and two interior rolled beams.

02/11 – 08/11

Dearborn Division Fixed Point Replacement, Norfolk Southern Corp., Cleveland, OH. *Lead Bridge Engineer* for the replacement of a fixed point structure spanning a 48" diameter water main to allow for ballast over the fixed point. A thick steel plate connected to and supported by precast concrete approach slabs was designed to span over the water main.

01/07 – 11/13

Gulf Intracoastal Waterway, West Closure Complex, US Army Corps of Engineers, New Orleans, LA. *Lead Bridge Engineer* This **\$800 million project** which was completed using the ECI (early contractor involvement) method. This method is the same as Construction Management at Risk (CMAR). **Arcadis worked directly with the Corps and Contractor to reduce flood risk** for residences and businesses in three parishes on the west bank of the Mississippi River. As a part of this project Arcadis developed an access bridge using precast, prestressed concrete voided slabs on pile bents with precast concrete piles. Portions of the access structure were supported on the pump station inlet walls. Numerous utilities going to and from the pump station were supported on the side and below the voided slabs.

09/12 – 11/15

Albany Division, River Subdivision Second Main – Cocksackie Phase 2, CSX Transportation, Cocksackie, NY. *Lead Bridge Engineer* for the design of two replacement bridges. **Both bridges were constructed in phases to maintain one track in**

	service at all times. Bridge 1 is a 107.8' single span, ballasted deck plate girder spanning over Cocksackie Creek. The pile cap was supported on two 72" drilled shafts for each abutment. Extensive temporary shoring was required to maintain the existing bridge in service because the rear abutment was failing. Bridge 2 is a 187.5' long, 3-span bridge carrying CSX over Hannacrois Creek. The ballasted deck plate girder superstructure has spans of 45'-97.5'-45'. Cap and column piers are supported on 78" or 84" drilled shafts. Wall abutments are supported on 9 5/8" micropiles. Bob lead the design effort on the 2 replacement bridges. Temporary shoring was critical on this bridge because the forward pier and abutment had settlement issues.
02/15 – 10/15	Florence Division, Orangeburg Subdivision Bridge at MP Ak 360.7, CSX Transportation, Creston, SC. <i>Bridge Review Engineer</i> for the replacement and rehabilitation of a 165' bridge over the Halfway Swamp Creek in Creston, SC. Superstructure design involved strengthening an existing 76' deck plate girder span and replacing 90' of timber trestle with new rolled beam spans. Substructure design involved replacing existing timber pile bents with new steel framed bents. Due to the environmental sensitivity of the stream, the proposed structure was designed to be constructed from the track, utilizing hi-rail cranes.
02/12 – 09/15	WOO-75-12.94 Third Lane Widening, ODOT, District 2, Ohio. <i>Project Manager and Lead Bridge Engineer.</i> Bridge project that was part of the reconstruction and widening of approximately nine miles of I.R.75. The project includes interchange acceleration and deceleration improvements as well as mainline bridge rehabilitations and/or replacements. During the initial phases of the project Arcadis evaluated the U.S. 6 interchange for design deficiencies and provided revised geometrics. Another key feature of the project utilized by ODOT was to replace the I-75 over U.S. 6 mainline bridge utilizing accelerated bridge construction (ABC) techniques. To provide the required vertical clearance, U.S. 6 was lowered. Duration of construction of the bridge was six months utilizing ABC instead of a typical two season project. The existing 4-span rolled steel beam bridge was replaced by a 2-span prestressed concrete beam structure. The substructure consisted of stub abutments behind MSE walls and a cap and column pier, all constructed underneath the existing bridge while maintaining traffic. The 200' long superstructure was constructed adjacent to the existing bridge. In one weekend an existing bridge was demolished, a new superstructure was pulled into position and all ancillary work was completed.
01/18 – 01/25	CSXT Clearance Improvement Project – Guilford Road, CSX Transportation, Baltimore, MD. Bob was the <i>lead bridge engineer</i> on this project and <i>project manager during construction</i>. The project consisted of replacing a deficient structure at the Guilford Road Bridge over CSX. The existing stone arch was replaced with 58' span, shallow depth plate girders to achieve the required vertical clearance while minimizing impacts to the roadway profile and adjacent homes. Maintenance of traffic included redesigning on-street parking on nearby streets to provide additional parking for residents due to parking loss due to construction. An existing fiber optic duct bank was designed to be supported during construction and then raised into position and supported on the new girders. The project was designed to MD SHA standards.
01/18 – 02/26	CSXT Clearance Improvement Project – Harford Road (This one is still in construction-to be completed this summer) CSX Transportation, Baltimore, MD. <i>lead bridge engineer / project manager during construction</i>. Project consisted of replacing a deficient structure where Harford Road spans over one CSX track. The existing stone arch was replaced with a 71' span, shallow depth plate girders to achieve the required vertical clearance. Soldier pile walls are constructed in front of the abutments to provide for 2 tracks. The City of Baltimore required two lanes of traffic in each direction and pedestrian access during construction. This resulted in 4 phases of construction in the tight urban setting.

Firm employed by. 			Meets MPR No 4	
Name	Victor Sanchez, PE		Years of relevant experience with this employer	2.5
Title	Principal Bridge Engineer		Years of relevant experience with other employer(s)	25
Degree(s) / Years / Specialization		MS / 2017 / Civil Engineering-Structures BS / 1991 / Civil Engineering with a major in Structures		
Active registration number / state / expiration date		PE.0033976 / LA / Exp. 09/30/2026		
Year registered	2008	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities		Bridge Design & Load Rating Services		
Experience dates	Experience and qualifications relevant to the proposed contract			
	Mr. Sanchez is the Lead Bridge and Structural Engineer for Arcadis' Louisiana Operations. The years that Victor spent working for LADOTD have provided him with substantial experience with the LADOTD policies and standards. He has a comprehensive experience in structural design of prestressed concrete and steel plate girder bridges as per AASHTO LRFD and AREMA, using MIDAS Civil, CSIBridge, LUSAS, OpenBridge Modeler, RMBridge, and LARSA; and in foundation design, including prestressed concrete piles and drilled shafts. He had worked on a variety of projects, including overpass/underpass railroad bridges, waterway crossings, bridge evaluation, rehabilitation, load rating, and repair. He has worked with very diverse teams in various capacities, including providing design calculations for bridges, serving as Engineer of Record, reviewing other team members' work, providing QC/QA, reviewing shop drawings, and managing projects. He has completed the LADOTD Historic Bridge Training, and with His exceptional leadership skills, combined with his knowledge of LADOTD policies, standards, and manuals, makes him an ideal leader for directing design teams.			
08/24 – Ongoing	I-10 Calcasieu River Bridge P3 (Calcasieu Parish, LA). Bridge Lead Engineer. The I-10 Calcasieu River Bridge project is one of the first Public-Private Partnership (P3) initiatives in Louisiana. It involves replacing several bridges, including the primary structure that spans the Calcasieu River. This project is divided into three segments. Arcadis is leading the design for Segment 1, which includes replacing the access ramp for the westbound I-210 over I-10. The bridge is a six-span structure composed of two units; each unit is a three-span continuous curved steel plate girder bridge. The substructure consists of concrete hammerhead piers on concrete drilled shafts. As the Bridge Lead Engineer and Engineer of Record (EOR), my role is to guide a team of engineers and drafters in preparing plans, calculations, load rating report, and quantity takeoffs for the replacement of the westbound I-210 ramp over the I-10. I also collaborate with other partners in coordination meetings with both the project owner and the contractor.			
06/22 – 08/22	Danville Bridge Repairs – Structure SN 092-6034, Load Rating (LFR). SN 092-6034 is a three-span bridge on County Highway over the North Fork Vermilion River with a total length of 266'-10 5/8". The 170'-0" main span is a tied-arch structure, and the approaches consist of two 46'-6" simple spans with steel rolled-beam superstructures. The project involved preparing a load rating analysis for the entire bridge, including the main span and approaches. Victor was responsible for the load rating report for the tied-arch main span, including structural analysis and modeling in RMBridge. He also generated the IDOT full-range rating trucks in accordance with the Structural Services Manual to determine the controlling force effects and to calculate member capacities for the arches, hangers, and tie girders used in the LFR analysis.			
04/19 – 01/20	Seabrook Bridge Span Replacement Project, New Orleans, LA, USA. Served as Engineer of Record (EOR) and Project Manager, leading the structural design and delivery of replacement approach spans for the Seabrook Bridge, a Strauss-			

	Truncheon Bascule Bridge over the Inner Harbor Canal that carries two railroad tracks operated by Norfolk Southern and the Port of New Orleans. Responsibilities included directing structural analyses and design development, coordinating preparation of final plans, specifications, and supporting calculations, overseeing QC/QA reviews, and managing interdisciplinary coordination to achieve timely delivery to LADOTD. The project involved replacing the approach spans adjacent to the bridge's main movable bascule section while maintaining compatibility with the operational and geometric requirements of the existing railroad movable bridge system.
06/14 – 07/15	I-10 Over Julia Street, Girder Rehabilitation Project, LADOTD, New Orleans, LA. Bridge Design Engineer / Engineer of Record. Led bridge design to address partial failure of connecting plates attaching girders to straddle bents on an I-10 exit ramp. Scope included replacing a steel cap beam at straddle bent 25w, all connecting plate elements at cap 26w, and analysis/rehabilitation of the affected three-span continuous structure (74'-132'-132'). Coordinated contract documents, plans, calculations, estimates, and provided QC/QA. Supported construction by reviewing and approving contractor shop drawings and calculations.
05/16 – 05/17	UP Railroad Overpass Near Tioga, LADOTD, Rapides Parish, LA. Lead Bridge Design Engineer / Engineer of Record. The total bridge length is 950' and consists of a main span using steel plate girders as superstructure elements over three continuous spans (210'-275'-210'); the bridge approaches to the main spans consist of two 85' AASHTO type III prestressed concrete continuous spans at the north side and one 85' AASHTO type III prestressed concrete span at the south side. The bridge substructure consists of concrete piers and caps supported on columns, which are supported on drilled shafts and spread footings on drilled shafts. Conducted bridge design as the Lead Engineer and Engineer of Record (EOR), responsible for the contract document preparation, including cost estimating, specifications, final plans preparation, structural calculations, load rating, and coordination for project delivery per Louisiana Department of Transportation policies.
04/16 – 12/16	Indian Bayou Bridge and Approaches, LADOTD, Calcasieu Parish, LA. Lead Engineer and Engineer of Record. The total bridge length is 675' and consists of 3 units with a length of 225', with each unit using precast prestressed concrete girders as superstructure elements over three continuous spans (75'-75'-75'). The bridge substructure consists of concrete piers and caps supported on precast prestressed concrete piles. Served as Lead Engineer and Engineer of Record (EOR), responsible for the contract document preparation, including cost estimating, specifications, final plans preparation, structural calculations, load rating, and coordination of project delivery per Louisiana Department of Transportation policies.
04/15 – 03/16	UP Railroad Bridge at Sicard, LADOTD, Ouachita Parish, LA. (LADOTD). Lead Engineer. This bridge consists of a main span using steel plate girders as main superstructure elements over three continuous spans (102'-175'-102'); the bridge approaches consist of three 84' continuous spans at the north side and to the south side, three 84ft continuous spans for a total structure length of 883' located in a straight alignment and skew of 68 degrees concerning a line normal to the center line of the bridge. The main superstructure elements of the approaches are prestressed concrete AASHTO Type IV girders, and the bridge substructure consisted of multi-column bents on concrete footing supported on prestressed concrete piles. Completed plan quality reviews, prepared the bridge load rating report, and assisted the environmental section of the LADOTD in completing the environmental clearance for the project. In addition, provide construction support by reviewing the shop drawings submitted by the general contractor.

Firm employed by. **ARCADIS**

Name	Ossama El Sayed	Years of relevant experience with this employer	5.5
Title	Project Structural Engineer	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization	MS / 2015 / Civil Engineering-Structures, Université Libre de Bruxelles (ULB) and Vrije Universiteit Brussel (VUB), Belgium (<i>Institutions internationally recognized and accepted in the United States through NCEES credential evaluations</i>) BS / 2013/ Civil Engineering with a major in Structures, Université Libre de Bruxelles (ULB)		
Active registration number / state / expiration date	Currently pursuing US licensure		
Year registered	expected 2026	Discipline	Civil
Contract role(s) / brief description of responsibilities	Bridge Design & Load Rating Services		
Experience dates	Experience and qualifications relevant to the proposed contract		
	Mr. El Sayed a Structural Engineers involved in Arcadis' Louisiana projects. He brings nearly a decade of experience focused on bridge and roadway structures, while also contributing to a wide range of civil and infrastructure projects, including rail, transit, subway, and tramway systems. His deep understanding of structural systems and ability to contribute actively during conceptual design phases make him a key asset in shaping the foundational frameworks of transportation infrastructure. Ossama has played a pivotal role in developing structural solutions for roadway and bridge projects, as well as in complex urban transit systems such as subway expansions, tramways, and railway rehabilitation. His expertise allows him to evaluate engineering challenges, propose efficient and constructible systems, and ensure seamless integration with other disciplines. In addition to his technical focus, he has contributed to the optimization of project workflows by creating custom tools tailored to project needs. His use of parametric modeling techniques has streamlined design modifications during project development and construction phases. Furthermore, his involvement in BIM-enabled projects has improved coordination across disciplines, ensuring consistency and integration of all design elements. Having recently joined the Arcadis Chicago office after several years in Europe, Ossama combines international experience with a forward-thinking approach. His expertise in bridge and roadway structural systems, along with his collaborative and innovative mindset, makes him a strong partner for delivering sustainable and efficient infrastructure solutions.		
10/24 – Ongoing	I-10 Calcasieu River Bridge P3 (Calcasieu Parish, LA). Structural Engineer. The I-10 Calcasieu is one of the first Public-Private-Partnership projects in Louisiana and entails the replacement of several bridges, including the main structure crossing over the Calcasieu River. The project is divided into three segments. Arcadis is leading the design of segment 1. Segment 1 includes the replacement of an access ramp; the WB I-210 Ramp over the I-10. The bridge is a <i>six-span bridge</i> that consists of two units, each unit is a three-span continuous curved steel plate girder bridge, and the substructure consists of concrete hammer-head piers on concrete spread footing on precast concrete piles. Role as <i>Structural Engineer</i> is to contribute to the development of the design, calculations, and quantity takeoffs for the replacement of the WB I-210 Ramp over the I-10. He also supports the preparation of plans, provides accurate technical information to assist the lead engineer in coordination meetings with the owner and contractor, and responds to technical questions arising during the project.		
08/25 – Ongoing	MBTA Tunnel Value Engineering Study (Boston, MA). Structural Engineer. The project focuses on providing a <i>new access point</i> near Alewife Station to facilitate equipment, labor, and material delivery into the Red Line tunnel more efficiently than		

	the existing Kendall/MIT access. The new access will include a 15-ft wide paved road followed by a 130-ft boat section ramp providing below-grade access to a tunnel connecting to the existing Red Line tunnel . The SOE system consists of sheet piling walls , internal bracing, and a working base slab. The tunnel and boat walls are constructed using typical form-and-pour methods from the base slab upward. Additional scope includes drainage integration with the existing system, truck pads for on/off-track access, a manually operated flood door, and electrical upgrades including lighting and security devices.
06/25 – Ongoing	TJPA The Portal - DTX - Structural Engineering support (San Francisco, CA). Structural Engineer. The Downtown Rail Extension (DTX) will connect Caltrain's regional rail system and the California High-Speed Rail Authority's statewide system to the Salesforce Transit Center in downtown San Francisco. Constructed primarily below grade, The Portal provides a critical underground rail link for Peninsula commuters and future high-speed rail operations. The project is developed by the Transbay Joint Powers Authority (TJPA) in collaboration with major stakeholders, including Caltrain, the California High-Speed Rail Authority, and the City and County of San Francisco. Scope of work includes structural engineering support for the preliminary and conceptual design of tunnel and portal structures , coordination with multiple disciplines, and provision of technical input to support design development and value engineering decisions.
06/21 – 10/24	Subway Brussels L3 Extension (Brussels, Belgium). Project Management Assistance – Infrastructure. The project involved extending Subway Line 3 for a total length of 6.5 miles, connecting key urban areas to improve transit accessibility. Responsibilities included monitoring progress and managing risk assessments and scheduling for the entire project. Provided Quality Assurance and Quality Control (QA/QC) for interim and final submittals, ensuring adherence to timelines and project deliverables. Oversaw project coordination on behalf of a public entity established under a Cooperation Agreement between the Brussels-Capital Region (BCR) and the federal authorities (Beliris). Supported engineering teams by providing guidance on risk mitigation strategies and ensuring compliance with regional and national project guidelines
06/21 – 10/24	Albert Station Subway and Tramway (Brussels, Belgium). Structural Engineering – Infrastructure. This project involved the transformation, renovation, and structural reinforcement of Albert Station to prepare for the arrival of Subway Line 3. Responsibilities included concept development, preliminary design, and execution studies to ensure the station's structural integrity and compatibility with the new subway infrastructure. Worked on behalf of the public transportation company of the Brussels Region (STIB), coordinating with multidisciplinary teams to deliver innovative and robust solutions. Provided technical expertise to address structural challenges, including load assessments and reinforcement strategies, ensuring the station's compliance with safety and operational standards.
01/18 – 06/21	Tramway of Liege (Liège, Belgium). Project Management and Structural Design – Transit Infrastructure. Managed design and execution studies for a 7.5-mile tramway system in Liège, Belgium, ensuring integration with urban infrastructure while meeting client and contractor requirements. Coordinated multidisciplinary teams to deliver compliant structural solutions for track alignment and surrounding infrastructure.
01/21 – 06/22	Railway Bridge Restoration (Aubange, Belgium). Structural Engineering – Railway Infrastructure. This project involved the repair and restoration of a railway reinforced concrete frame bridge that collapsed due to embankment swelling. Responsibilities included conducting detailed design and execution studies to address structural failures caused by shear stress cracks from the swelling backfill. Developed engineering calculations to evaluate the bridge's structural capacity and ensure its continued usability. Proposed reinforcement and repair strategies to restore the bridge's integrity and meet safety and operational standards. Collaborated with multidisciplinary teams to implement solutions that minimize future risks associated with backfill pressure.

Firm employed by. **ARCADIS**

Name	Krishna Singaraju, PE		Years of relevant experience with this employer	4
Title	Project Structural Engineer		Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization			MS / 2018 / Structural Engineering, University of Maryland College Park BE / 2014 / Civil Engineering, Birla Institute of Technology and Sciences	
Active registration number / state / expiration date			PE.0048911 / LA / Exp. 09/2026, PE.151559 / TX / Exp. 12/2026	
Year registered	2024	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities			Bridge Design & Load Rating Services	
Experience dates	Experience and qualifications relevant to the proposed contract			
	Mr. Singaraju has experience in bridge structural design, plan production, detail review, and construction engineering methods for miscellaneous highway structures. His design responsibilities include LRFD structural analysis and design, detailing, shop drawing review, and plan production in accordance with the Texas Department of Transportation (TxDOT), Louisiana Department of Transportation and Development (LADOTD), Oklahoma Department of Transportation, and American Association of State Highway and Transportation Officials (AASHTO) specifications. His experience includes bridge superstructure and substructure design, design review, construction engineering and methods, bridge construction, cost estimate preparation, and quality control.			
01/22 – Ongoing	I-10 Construction Management at Risk (CMAR), LADOTD, East Baton Rouge Parish, LA. Project Bridge Engineer for a CMAR project to improve I-10 through widening and reconstruction. This project involved bridge replacement and rehabilitation, interchange and ramp modification, shoulder widening, and auxiliary lane(s) from LA 415 to Essen Lane on I-10 and I-12. Responsibilities included bridge substructure design, plan production, and quality control (QA/QC) for bridge widening and new mainline structures . Participated in design meetings and provided guidance for CAD support for plan production at multiple CMAR submittal levels for LADOTD. Prepared the temporary and permanent widening substructure drawings of existing westbound I-10 for the 90% submittal level. The permanent widening consisted of 13 bents and temporary widening consisted of 41 bents. Performed multiple design iterations using Open Bridge Designer software to develop the cap and column design. Worked on sketching rebar layout for aesthetic flared columns for mainline and ramp substructure. Calculated bent cap control elevations and top-of-shaft elevations based on riser elevation data from the superstructure designer and the substructure geometry. Checked the required riser thickness by reviewing the framing plan for different beam types used in the superstructure. Prepared markups using Bluebeam Revu software and shared them with CAD engineers for sheet updates.			
04/22 – 03/23	US 90 Bridge Assessment, TxDOT, Caldwell / Gonzales County to Louisiana State Line, Multiple Counties, TX. Staff Bridge Engineer. US 90 Bridge Assessment Project, which included a 246-mile corridor from Caldwell/Gonzales County (west limit) to the Louisiana State Line (east limit). Created bridge reports for each TxDOT district with an index of existing bridges and calculated the deck area of functionally obsolete bridges based on TxDOT bridge inspection manual definitions. Prepared a summary of bridges by vertical clearance using Google Earth.KMZ file of existing US 90 bridges sorted by district within the project limits. Performed QA/QC review of the TxDOT bridge data to validate the information shown in the bridge Summary reports.			

08/22 – Ongoing	Calton Road, Railroad Grade Separation, TxDOT, Webb County, TX. Staff Bridge Engineer. Project involves grade separation work at a Union Pacific Railroad (UPRR) crossing which includes constructing seven span overpass bridge with steel plate girders. Worked on modifying steel superstructure girder detail drawings for camber diagrams and fabrication notes. Prepared bridge layout and cross sections and modified them based on comments from TxDOT review. Created a submittal package with set of applicable TxDOT standards. Calculated bridge quantities and created a quantity table on the summary sheet with required bid item codes.
01/23 – 06/24	FM 740/ FM 548, Schematic & Environmental, TxDOT, Kaufman County, TX. Staff Bridge Engineer. A new proposed bridge widening for the existing FM 548 Mustang Creek Bridge. This bridge widening project involved reviewing existing bridge as-built drawings in the metric system and preparing a bridge layout for the widening structure in U.S. customary units. Phased construction guidelines by TxDOT were utilized while creating typical sections for bridge widening. Responsibilities included performing a design check for additional loads due to curbs and rails on the existing superstructure using Texas Optional Girder Analysis. Created the bridge layout and typical section using MicroStation. Calculated quantities and prepared a summary of required bid item codes based on available TxDOT bid history.
02/23 – 01/25	Cross Bayou Bridge Replacement / Feasibility Study, LADOTD, Caddo Parish, LA. Staff Bridge Engineer for the US 71 Northbound (NB) – Spring Street and US 71 Southbound (SB) – Market Street bridge alternatives for Cross Bayou bridge replacement on Route US 71. Responsibilities included preparing bridge quantity calculations for a prestressed concrete girder bridge with a simple-span alternative and a three-span continuous steel girder alternative for the Market Street bridge. Prepared bridge quantity calculations for a prestressed concrete girder bridge alternative, and three-span and four-span continuous steel girder alternatives for Spring Street bridge. Performed superstructure design using an LG girder and reviewed the LADOTD manual to optimize design. Worked on the feasibility study report and created supporting drawings and design recommendations.
03/23 – 05/23	Bridge Replacement at Shelby Ave, TxDOT, Hunt County, TX. Staff Bridge Engineer for the new bridge design of a prestressed concrete slab beam bridge with a single span. Responsibilities included preparing a cost estimate for the bridge using TxDOT bid history average cost for the Paris District, performing QA/QC review of the bridge geometry input in the Bridge Geometry System (BGS) software program and the bridge layout, and extracting slab beam (5SB12) step elevations. Prepared a 3D model using OpenBridge Modeling software and designed the slab beam span.
03/19 – 05/21	TxDOT PS&E IH-35 Shiloh UPRR Overpass NB & SB in Webb County, Laredo, TX. Bridge Engineer. This project involved designing twin bridges with prestressed concrete girder approach spans and a 3-span continuous steel unit crossing an existing UPRR railroad. Modeled complex bridge geometry with skew, curvature, multiple girder types and roadway superelevation using the BGS software program to extract bent and beam geometry reports for tables in bridge sheets. Reviewed the Exhibit-A white paper for UPRR and AREMA guidelines on bridge vertical clearance since the steel unit crosses an existing UPRR railroad. Worked on the cross-frame layout for the steel unit and created multiple options to space the cross frames based on AASHTO and National Steel Bridge Alliance guidelines on staggered cross frames for high skew bridges. Coordinated with CAD engineer to check the BGS output plot by referencing it in the bridge plan master design file created using the MicroStation software program. Modeled the steel unit with 3-span continuous plate girders in the MDX software program as per the framing plan and ran analysis with all applicable load combinations.

Firm employed by. **ARCADIS**

Name	Sushil Dhungana, PE	Years of relevant experience with this employer	3
Title	Project Structural Engineer	Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization	MS / 2018 / Civil Engineering (Structural), University of Texas at Arlington BS / 2014 / Civil Engineering, Tribhuvan University		
Active registration number / state / expiration date	PE.0047291 / LA / Exp. 03/2027; PE.143443 / TX / Exp. 09/2026		
Year registered	2022; 2021	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Bridge Design & Load Rating Services		
Experience dates	Experience and qualifications relevant to the proposed contract		
	Mr. Dhungana has more than eight years of experience in bridge engineering, working on various Plans, Specifications & Estimates and Design-Build projects. His experience involves bridge design, replacement, widening and retaining wall design. He is skilled at designing and analyzing concrete and steel bridges as well as various drainage structures. He is proficient in QA/QC and constructability reviews, maintaining that designs are accurate, practical and feasible for construction. With a strong design background, he understands complex projects and recognizes the importance of quality designs to meet project requirements. He has hands-on experience with Design-Bid-Build, Design-Build, and Construction Manager at Risk (CMAR) projects.		
08/22 – Ongoing	I-10 CMAR, Louisiana Department of Transportation and Development (LADOTD), East Baton Rouge Parish, LA. Bridge Engineer. Improved I-10 through widening and reconstruction of the mainline from three to four lanes in each direction, including bridge replacement and rehabilitation, interchange and ramp modification, shoulder widening, and auxiliary lane(s) from LA 415 to Essen Lane on I-10 and I-12. Designed and detailed single and multi-column aesthetic flared column bents of I-10 main lane bridge, ramp bridge, temporary and permanent widenings using Open Bridge Designer software. Calculated foundation loads and coordinated with geotechnical engineers to design drilled shafts, optimizing shaft diameter and length for capacity, settlement, and constructability. Calculated control elevations and performed QA/QC on designs, plans and estimated quantities per LADOTD standards and guidelines . Provided CAD guidance and support throughout the production of plans at various stages of submittal.		
08/22 – Ongoing	Calton Road, Railroad Grade Separation, Texas Department of Transportation (TxDOT), Webb County, TX. Bridge Engineer. Performed grade separation work at a Union Pacific Railroad (UPRR) crossing , which includes constructing a seven-span overpass bridge with steel plate girders. Reviewed steel plate girder design calculations. Performed steel plate girder camber analysis and developed a web cutting table . Designed and detailed abutments and bent caps per TxDOT guidelines. Calculated bearing seat elevations and quantities. Updated shoring diagram sheets per UPRR and Burlington Northern Santa Fe (BNSF) Railway guidelines for railroad live load surcharge. Reviewed bridge plans per TxDOT bridge design and detailing guidelines.		
03/23 – 05/23	Bridge Replacement at Shelby Ave, TxDOT, Hunt County, TX. Bridge Engineer. Replaced an off-system bridge, Shelby Ave at Farber Creek branch with a 40' prestressed slab (5SB12) beam span. Designed the proposed bridge using TxDOT standard bridge elements. Designed the slab beam span, developed a 3D model using Open Bridge Designer software, drafted bridge sheets, calculated slab beam step elevations using BGS software, and calculated quantities. Specified the location of soil		

	boring for the design of the bridge foundation. Selected applicable TxDOT standards to be included in the bridge package. Reviewed final bridge plans per TxDOT guidelines.
02/23 – 01/25	Cross Bayou Bridge Replacement Stage Zero Feasibility Study, LADOTD, Caddo Parish, LA. Bridge Engineer. Identified practical alternatives to replace the US 71 Northbound (Spring Street) and US 71 Southbound (Market Street) bridges in District 04 over Cross Bayou. Designed three-span curved steel plate girder and eight-span prestressed concrete LG 45 girder bridge options for the Spring Street bridge replacement. Designed four-span prestressed concrete LG54 girder and three-span steel plate girder options for the Market Street bridge replacement. Reviewed LADOTD maximum span length charts to optimize LG girder design options. Performed cost estimates and drafted bridge layouts and typical sections for all feasible bridge alternatives. Prepared a feasibility study report and provided recommendations.
01/23 – 06/24	FM 740 / FM 548, Schematic and Environmental, TxDOT, Kaufman County, TX. Bridge Engineer. Developed design schematics to widen the existing two-lane urban section to a divided four-lane urban section from IH 20 to US 80. Widened the existing seven-span Mustang Creek bridge with Type C beams using Tx40 girders in both directions. Analyzed existing Type C spans for additional load due to the center median and rails using Texas Optional Girder Analysis. Designed proposed Tx40 girders using Bridgeline software and developed strand patterns. Drafted bridge layout, typical sections, and calculated quantities and cost per TxDOT standards. Reviewed final schematic per TxDOT guidelines.
07/21 – 08/22	BNSF Underpass at 4th Street, Oklahoma Department of Transportation (ODOT), City of Moore, OK. Bridge Engineer. Designed a railroad bridge over SE 4th Street in the City of Moore, Oklahoma, and developed the track layout per American Railway Engineering and Maintenance-of-Way Association (AREMA) and BNSF guidelines. Designed the proposed two-span railroad bridge using prestressed concrete TY IV beams. Designed beams, developed strand patterns, and prepared detailed plans for railroad bridge per ODOT and BNSF guidelines. Designed drilled shafts using LPILE software. Reviewed the final bridge, railroad track layout and drilled shaft retaining wall package to meet BNSF and AREMA standards.
03/21 – 08/21	Crossroads I35/I240, Oklahoma Department of Transportation, Oklahoma City, OK. Bridge Engineer. The project involves replacing two existing railroad bridges and developing a track layout to reconstruct the I-35/I-240 interchange in Oklahoma City in accordance with AREMA and BNSF guidelines. Designed and prepared detailed plans for steel plate girders, railroad bridges with ballasted deck. Developed layouts and structural details for tieback drilled shaft walls. Reviewed final bridge plans per BNSF and AREMA standards.
02/21 – 11/21	Bitter Creek at FM707, TxDOT, Taylor County, TX. Bridge Engineer. Performed bridge replacement and reconstruction of approaches for the Abilene District. Replaced the existing bridge with three spans of Tx28 girders. Designed the proposed bridge using TxDOT standard bridge elements. Analyzed TxDOT standard bent and span sheets for Tx28 girders using Leap Bridge and Bridgeline software. Prepared bridge plan, profile, and typical sections, calculated bearing elevations, quantities and construction cost estimates per TxDOT standards. Specified the location of soil borings for the design of the bridge foundation.
09/20 – 08/22	Southeast Connector, TxDOT, Tarrant County, TX. Bridge Engineer. Executed a Design-Build project in the Fort Worth District, which includes improvements/widenings to I-20 (from Forest Hill Drive to Park Springs Boulevard), I-820 (from I-20 to Brentwood Stair Road), and US 287 (from Bishop Street to Sublet Road). Designed superstructure and substructure bridge elements for two bridges, the I-20 Overpass at Hartman and the I-20 Underpass at Anglin Drive. Prepared bridge layout and detail sheets. Calculated bearing seat elevations using BGS software. Designed and detailed CIP, soil nails, and MSE walls.

Firm employed by. **ARCADIS**

Name	Pooja Rao Madku, PE		Years of relevant experience with this employer	1
Title	Structural Engineer		Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization			MS / 2015 / Civil Engineering BTech /2012 / Civil Engineering	
Active registration number / state / expiration date			PE. 24473 / DE / Exp. 06/30/2028	
Year registered	2021	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities			Bridge Design & Load Rating Services	
Experience dates	Experience and qualifications relevant to the proposed contract			
	Ms. Madku is the Structural Engineer for the Arcadis office in East Windsor. Pooja's experience includes extensive design of new structures, concept development, the repair and rehabilitation of existing bridges, retaining walls, load rating of new and existing bridges, and construction support services including but not limited to shop drawing reviews and response to contractor's request for information (RFI), quality assurance and quality control of design and drawings. Ms. Madku has participated in the design for major rehabilitation projects with NJDOT, NJTA, NJT, DRJTBC, PANYNJ, and other local agencies. She is experienced in using SAP 2000, STAADPRO, LARS, AASHTOWare, MathCAD, AutoCAD and MicroStation, among other software applications. She applies sound structural knowledge to perform the analysis and design of various highway and railroad bridges, including steel, reinforced concrete, and prestressed concrete; willingness to work collaboratively with different groups inside the organizational team including clients, other disciplines' engineers, and project managers within the project organization.			
02/22 – 04/25	I-10 Calcasieu River Bridge P3, LADOTD, Calcasieu Parish, LA. <i>Structural Engineer</i> for the I-10 Calcasieu Bridge Replacement P3 project to replace the existing I-10 bridge over the Calcasieu River with a new bridge north of I-10 . The project also includes the construction of several new bridge structures within the project limits, both inside and outside widening of I-10, improvements and modifications to existing interchanges, and improvements to other associated roadways within the project limits.			
06/17 – 06/21	NYCEDC, Hudson Park Blvd. and Streetscape Improvements, Phase 2, Block 4 Between W36th and W37th Street, NY <i>Structural Engineer</i> . Responsible for the design of the proposed bridge carrying Hudson Boulevard West over the existing Amtrak's track between W36th and W37th Street Bridges from Schematic, Preliminary to Final Design. The proposed bridge is a 2-span bridge with a total length of 143' and a width of 50'. The superstructure consists of one major structural steel girder with a series of steel stringers with concrete deck on top. The substructure consists of a 190' long abutment, two piers, and two 45' long retaining walls. The height of abutment wall is about 30' which will provide an adequate under-clearance for the Amtrak train below the bridge . Provided support in the development of contract drawings and addressing comments from various disciplines and agencies at different stages of the project. Provided specifications and performed quality assurance and quality control of design and drawings.			
08/15 – 07/22	DRJTBC, Scudder Falls Bridge Replacement, NJ/PA. <i>Structural Engineer</i> . The project tasks consisted of Preliminary and Final Design of two curved girder ramp bridges, 12,000 linear feet of noise walls, 3,000' of retaining walls and a 1,625' ADA-Compliant ramp and bridge from the mainline bridge to the tow path along the Delaware and Raritan Canal in New Jersey. Various concepts for this ramp were investigated including a constant slope ramp at 5% grade and an 8% sloped ramp with 5			

	feet horizontal landings at 30 feet intervals as required to achieve the ADA compliance. Final design of this ramp with the recommended alternative (5% constant grade) was approved. Primarily responsible to quantify engineer's estimate for different structures. Assisted in design and development of plans and elevations for retaining walls. Involved in design and estimate calculations for retaining walls. Assured compliance with codes and reviewed the shop drawings. Involved in construction support services including but not limited to shop drawing reviews and response to contractor's request for information (RFI), quality assurance and quality control of design and drawings.
03/16 – 04/23	NJ Transit, County Yard Improvement Program, 6-Mile Run Railway Bridge, NJT Contract No 13-041, NJ. Structural Engineer. Project intends improvement of County Yard by addition of Service & Inspection Facility and tracks, design of 200 ft long bridge at Six-mile Run Creek and 5 retaining walls. Responsible to develop structural plans and design of retaining walls. Prepared reports for the types of retaining walls that can be utilized. Responsible for design calculations for plate girders, floor beams and their connections, and load calculations for 6-Mile Run Railway Bridge in compliance with AREMA and NJ Transit manuals and guidelines.
05/15 – 03/21	NJDOT, Pulaski Skyway Rehabilitation, Contract #5 Rehabilitation of Broadway and Kearny Ramps, Essex/Hudson County, NJ. Structural Engineer. Responsible for evaluation, seismic analysis and load rating of bridge members. Responsibilities include design of steel and substructure repairs and design of new deck . Work is part of NJDOT's Pulaski Skyway rehabilitation capital program which includes re-decking and steel and substructure repairs of the entire viaduct carrying US 1/9 traffic between Newark and Jersey City.
04/15 – 08/21	PANYNJ, Raising the Roadway of the Bayonne Bridge, Hudson County, NJ. Structural Engineer. Primarily involved in construction support services including but not limited to shop drawing reviews and response to contractor's request for information (RFI), quality assurance and quality control of design and drawings, on this project to increase the navigational clearance from 151' to 215' above mean high water utilizing the existing arch superstructure . The New York and New Jersey approach substructures were replaced to support the new approach superstructures. The pedestrian access includes preliminary and final design of the sidewalk with an access hatch for maintenance, railings and anti-climbing fence.
09/19 – 04/23	NJDOT, River Road (CR 622) Bridge over NJ Route I-287, NJ. Senior Structural Engineer. Responsible for the preparation of supplementary specifications (Special Provisions) as per NJDOT Standard Specifications and providing bid support services for the final design of this four-span superstructure replacement and substructure rehabilitation project . The bridge spans are about 27'-3", 90'-6", 90'-6" and 27'-3", a total span length of 235.5' and an out-to-out deck width of 72.75'. The existing substructure with two abutments and three piers will be rehabilitated to achieve a Condition Rating of 7 and a 45-year service life. Also responsible for assisting in development of structural plans, and preparation and review of Engineer's cost estimate.

Firm employed by.



Name	Feng Xie, PhD, PE	Years of relevant experience with this employer	10
Title	Structural Engineer and Project Manager II	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization	PhD / 2026 / Civil Engineering-Structures MS / 2014 / Civil Engineering-Structures BS / 2012 / Civil Engineering-Structures		
Active registration number / state / expiration date	PE.0043987 / LA / Exp. 03/31/2028		
Year registered	2019	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Bridge Design & Load Rating Services		
Experience dates	Experience and qualifications relevant to the proposed contract		
	Dr. Feng is a seasoned engineer with extensive experience in bridge inspection, load rating, and rehabilitation. He oversees in-depth inspections, structural analysis, rehabilitation planning, and construction support. Feng has managed and performed load ratings for hundreds of bridges statewide, including complex steel, concrete, truss, movable, and culvert structures, and has applied NDT methods. He brings strong technical expertise, quality control experience, and a practical approach to extending bridge service life.		
	01/23 – 08/24	H.015352.5: US 190 and US 61 Overpass Int. Repairs / Construction Support, LADOTD, East Baton Rouge Parish, LA. <i>Deputy Project Manager.</i> The project involved bridge repair, strengthening, and post-design construction support for the US 190 over US 61 bridges. The work included in-depth inspection, load testing, repair and strengthening recommendations, rehabilitation plan development, and construction-phase support. Responsibilities include the following:	
		- Led the in-depth bridge inspection to document existing conditions and identify deficiencies. - Reviewed structural analysis and plan development for bridge strengthening and preservation. - Developed and reviewed the repair/rehabilitation plan to address deficiencies and extend the bridge service life. - Provided post-design construction support	
	03/23 – 06/23	H.015034: LA 308 and 3162 MB RPRS (GLDN MDW and GALL) (HBI), LADOTD, Lafourche Parish, LA. <i>Lead Engineer:</i> The Bayou Lafourche bridge is movable in poor condition with a steel tower vertical lift main span and concrete slab approach spans. The project objective was to inspect the bridge, identify deficient elements, and develop a rehabilitation plan for preservation of the structure. Responsibilities include the following:	
		- Led and performed the in-depth bridge inspection to verify conditions and identify deficient components. - Reviewed the bridge inspection report, repair recommendations, load rating model, and rehabilitation plan	
	05/21 – 04/22	H.014288.5-2: LA 82 Mermentau River MB (G Chenier) Bridge Rehabilitation, LADOTD, Cameron Parish, LA. <i>Task Manager.</i> This movable preservation priority bridge includes a 204-foot swing steel low truss main span, concrete slab approach spans, and steel I-beam approach spans. The assignment involved bridge inspection, deficiency evaluation, structural analysis, repair and strengthening design, and plan development. Responsibilities include the following:	
		Prepared for bridge inspections and evaluated structural members for deficiencies.	

	- Performed structural analysis and designed repair and strengthening details for structural members. - Led the development of the rehabilitation plan and repair recommendations
04/21 – 08/21	H.009859.5: Rehabilitation of LA 3094 Bridge, LADOTD, Shreveport, LA . <i>Field Engineer</i>. The LA 3094 Bridge over the Kansas City Southern Railroad was in poor condition and required a rehabilitation design. The work included detailed inspection, load testing, test data processing, deficiency documentation, report preparation, and repair recommendations. Responsibilities include the following: - Performed in-depth bridge inspection and measured deteriorated structural members in detail. - Conducted load testing with dump trucks and reviewed rehabilitation design and reports
09/20 – 02/21	H.009730.5: Bridge Deck Evaluation Using Ground Penetrating Radar, LADOTD, Statewide, LA . <i>Lead Engineer</i>. The project used NDT methods to evaluate the overall deck condition of five selected bridges statewide and prepare deck condition reports. Responsibilities include the following: - Managed the work schedule and project progress for field investigation and evaluation activities. - Performed field inspection, data processing, and interpretation, and prepared condition assessment reports
01/16 – 07/17	H.011484: US 80 Texas Street Bridge Rehabilitation / In-Depth Inspection and Rating, LADOTD, Shreveport, LA. <i>Bridge Engineer</i>. This project included in-depth inspection, load rating, and rehabilitation planning for a major truss bridge with steel truss spans, a steel girder span, and reinforced concrete approach spans. Responsibilities include the following: - Performed in-depth field investigations of bridge members and documented member conditions. - Prepared inspection/report documentation and supported the development of the truss rehabilitation plan
10/18 – Ongoing	Statewide Bridge Load Rating, LADOTD, Statewide, LA. <i>Deputy Project Manager, Lead Engineer</i>. The work consisted of reviewing plans and inspection records, assessing conditions, developing load rating models, making repair or strengthening recommendations, and preparing load rating reports. Responsibilities include managed schedules and task assignments, developed/reviewed rating models, and supported repair/rehabilitation recommendations. Projects: 44-31061 TO No. 1 (H.009859.5): Load Rating of 300 Bridges, Statewide, LA 44-31060 TO No. 2 (H.012485.5): Load Rating of 117 Off-System Bridges, Statewide, LA 44-21595 TO No. 8 (H.009859.5): Load Rating of 32 Bridges, Statewide, LA 44-21595 TO No. 7 (H.009859.5): Load Rating of 89 Bridges, Statewide, LA 44-17310 TO No. 7 (H.009859.5): Load Rating and Influence Line of 104 Bridges, Statewide, LA 44-21595 TO No. 5 (H.009859.5): Load Rating of 114 Bridges, Statewide, LA 44-09423 TO No. 14 (H.009859): Load Rating of 36 Bridges, Statewide, LA 44-09423 TO No. 11 (H.009859.5): Load Rating of 176 On-System Bridges, Statewide, LA 44-09423 TO No. 8 (H.012485.5): Load Rating of 617 Off-System Bridges, Statewide, LA - H.009859.5: Load Rating of 27 Complex Bridges - H.009859.5: Load Rating of 18 Complex Bridges

Firm employed by.



Name	Mohammad Tahat, PhD, PE	Years of relevant experience with this employer	3
Title	Structural Engineer and Project Manager II	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	PhD / 2023 / Civil Engineering MS / 2019 / Civil Engineering BS / 2015 / Civil Engineering		
Active registration number / state / expiration date	PE.0049473 / LA / Exp. 03/31/2027		
Year registered	2024	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Bridge Design and Load Rating		
Experience dates	Experience and qualifications relevant to the proposed contract		
	Dr. Mohammad is a structural engineer with three years of experience focusing on on-site inspection, bridge instrumentation and load testing, bridge repair projects, bridge design, load rating evaluation, rehabilitation projects, and quantity/cost estimate preparation. He has contributed to numerous projects involving load rating analysis and reporting, with experience across a wide range of structures, including concrete, steel, truss, and other complex bridge systems.		
	07/24 – Ongoing	H.010015 LA 143 Bayou D'Arbonne Bridge, LADOTD, Ouachita Parish, LA. Bridge Engineer. The scope of work is to design and develop a new bridge to replace the existing bridge over Bayou D'Arbonne. The project consists of providing all necessary engineering design services (Stage 3) required to construct the new bridge structure. The new bridge consists of prestressed concrete LG-45 girders with a total bridge length of 500 feet. Responsibilities include the following: • Design the substructure. • Design the sheet piles. • Design plan development. • QA/QC review of bridge design plans	
	07/24 – Ongoing	Statewide Bridge Load Rating, Statewide, LADOTD, LA. Bridge Engineer: Performed load rating of concrete bridges, steel bridges, and culverts, including truss bridges, swing spans, railroad flat car bridges, and curved steel bridges. Responsibilities include load rating complex bridges using 3-D FEM and specialized analyses to determine accurate ratings and prepare load rating reports; and reviewed numerous bridges. Projects: • H.009859.5 Load Rating of 114 Bridges • H.009859.5: TO # 7 Load Rating of 89 Bridges • H.009859.5: 44-31061 TO1 Load Rating of 300 Bridges • H.012485.5: TO #2_ H.01248.5 Off-system 117 BR	
	07/25 – 11/25	I-20 OVER LAKE SHORE DRIVE AND KCS RR – PHASE I, LADOTD. Bridge Engineer. The scope of work is to evaluate and develop a rehabilitation scope of work for four existing bridges carrying I-20 over Lake Shore Drive and KCS Railroad. The	

	project consists of performing detailed bridge inspections, load rating analyses, and developing rehabilitation recommendations as part of Phase I. The work includes evaluating both superstructure and substructure elements in accordance with LADOTD guidelines. Responsibilities include the following: • Conduct site inspections to assess existing bridge conditions. • Perform load rating analysis for concrete and steel bridge components. • Evaluate rehabilitation alternatives and develop scope recommendations. • Prepare quantity for proposed rehabilitation work. • Develop construction cost estimates.
02/25 – 06/25	110 NB at Convention St. Fire Damage repair, LADOTD, East Baton Rouge Parish, LA. <i>Bridge Engineer.</i> The bridge was subjected to fire that damaged the substructure and superstructure. The scope of the project includes in-depth inspection, rehabilitation design and plans, and construction support. The rehabilitation plans consisted of cleaning and painting, concrete restoration of the substructure, and CFRP laminate application to the bent caps, columns, and risers. Responsibilities include the following: • Conduct in-depth site inspection. • Perform structural evaluation and design of rehabilitation measures. • Prepare quantity take-offs and construction cost estimates. • Prepare rehabilitation report.
011/24 – 07/25	Wilson Island Bridge over Palatlahaha River, LADOTD, Lake County, FL. <i>Bridge Engineer.</i> The scope of work is to design a new bridge over the Palatlahaha River in Lake County, FL. The project consists of providing all necessary engineering design services (Stage 3) required to construct the new bridge structure. The new bridge consists of prestressed concrete FIB-36 girders with a total bridge length of 100 feet. Responsibilities include the following: • Design the Substructure. • Design the sheet piles. • Design plan development. • QA/QC review of bridge design plans.
08/23 – 11/24	In-depth and Routine Bridge Inspection, LADOTD, Statewide, LA. <i>Bridge Engineer.</i> The scope was to perform a routine, in-depth, and fracture-critical inspection of the bridge and create an inspection report in InspectX. The inspection was in conformance with the AASHTO Manual for Bridge Evaluation, the NBIS, and the LADOTD Bridge Inspection Manual. Responsibilities include inspecting bridge elements, calculating quantities, and uploading the InspectX inspection report. Projects: • H.009730.5 TO#1: LA 3213 over Mississippi River Bridge, Gramercy, LA • H.009730.5 TO#3: I-20 over Mississippi River Bridge, Vicksburg, MS • H.009730.5 TO#3: US-80 Texas Street over Red River Bridge, Shreveport, LA

Firm employed by.



Name	Mohsen Shahawy, PhD, PE	Years of relevant experience with this employer	26
Title	Principal Engineer	Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization	PhD / 1984 / Civil Engineering MS / 1981 / Civil Engineering BS / 1976 / Civil Engineering		
Active registration number / state / expiration date	PE.0031465 / LA / Exp. 03/31/2027		
Year registered	2004	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Bridge Design and Load Rating		
Experience dates	Experience and qualifications relevant to the proposed contract		
	Dr. Mohsen is the managing principal of SDR. He has 40 years of experience and has published over 180 papers in the areas of prestressed/reinforced concrete performance, load and resistance factor design (LRFD) code issues related to shear performance, structural testing, evaluation, load testing, and load rating of bridges, dynamic behavior of bridges, and bridge rehabilitation. He is a Co-author of the Prestressed Concrete Institute Bridge Design Manual. He has led SDR's team in developing the DOTD Bridge Design and Evaluation Manual (BDEM) and the LG Girder Details and Design Standards. He has been responsible for the design of more than 90 bridges with spans ranging up to 280 feet, the production of conceptual reports for 40 bridges, and design peer reviews of more than 300 bridges for various authorities.		
03/17 – Ongoing	Load Rating of Complex & Simple Bridges, LADOTD, Statewide, LA. QAQC Reviewer. Led many bridge rehabilitation and load rating projects of various complex bridge types including truss, swing, lift, pontoon bridges. Responsibilities include leading structural analysis, QC review of FE models, and independent peer reviews. Projects: • Bridge No. 054360 (Steel Plate Girder Swing Span) • Bridge No. 058750 (Steel High Truss Swing Span) • Bridge No. 056430 (Steel Truss Swing Span) • Bridge No. 054480 (Ponton Span) • Bridge No. 000930 (Steel Tower Vertical Lift Span) • Bridge No. 200871 (Steel I-Beam Swing Span) • Bridge No. 020447 (Steel Plate Girder Bascule Span) • Bridge No. 200903 (Steel Plate Girder Swing Span) • Bridge No. 200877 (Steel Plate Girder Swing Span) • H.009859.5: Load Rating of 114 Bridges • H.009859.5: Load Rating of 74 Bridges • H.009859.5: Load Rating of 50 Bridges		
11/17 – 10/20	H.011484: US-80 Texas Street Bridge Rehabilitation, LADOTD, Shreveport, LA. QAQC Reviewer: The bridge consists of a main truss span comprised of two 182-foot anchor spans and one 520-foot steel cantilever span, six 102.75 foot steel deck truss spans, one 91-foot steel girder span, and 35 reinforced concrete deck girder approach spans of varying span lengths. The scope of work consisted of conducting National Bridge Inspection Standards (NBIS) element level inspection of the entire		

	bridge, 3-D computer modeling and analysis of existing deficiencies, load rating based on existing conditions, developing scope of rehabilitation including cleaning and painting of steel trusses, design of epoxy-urethane overlay system on deck, Carbon Fiber Reinforced Polymer (CFRP) repair of concrete spall for columns, caps and concrete beams, strengthening of steel truss span members, strengthening floor beams and gusset plates, repair of steel plate girder spans, and sealing of joints and pin replacement. Responsibilities include performed independent QA/QC of all above-listed work elements and guided the project team to address review comments at every stage.
10/18 – 02/21	H.011487: LA 182 Over Atchafalaya River (Berwick Bay) Bridge Rehabilitation, LADOTD, Lafayette, LA. QAQC Reviewer. The bridge, built in 1933, is a through truss carrying LA-182 over the Atchafalaya River. The bridge consists of three main trusses with a span length of 608 feet each, two deck trusses with a span length of 126 feet each, and 40 concrete T-beam spans with a span length of 40 feet each. The work included performing an in-depth inspection of the truss and concrete spans, NDT of the concrete T-beams, load rating the bridge based on observed deficiencies, 3-D computer modeling of the truss spans, analysis including design and developing repair details for the steel truss members, gusset plates, reinforced concrete T-beam and deck slab, preparing rehabilitation plans and technical special provisions, and construction cost estimate. Responsibilities include independent QA/QC of all above-listed work elements and provided guidance to the project team to address review comments at every stage.
07/15 – 06/17	H.005380.5: Evaluation and Load Rating of Three Major Truss Bridges, LADOTD, Statewide, LA. Project Manager and Lead Engineer. This project was a complete evaluation and load rating of three major truss bridges, including the approach spans: Mississippi River Bridge at Vicksburg (4,210 feet), Sunshine Bridge at Donaldsonville (8,236 feet), and I-10 Calcasieu River Bridge at Lake Charles (6,617 feet). The bridges consisted of main steel truss spans, prestressed concrete or steel approach spans, and reinforced concrete or steel bent caps. Responsibilities include QC review of all inspection reports, structural assessment of found deficiencies, and determining the effect of steel section loss for both members and gusset plates on load rating; developing structural modeling parameters and supervising the team developing the 3-D finite element model for the main truss using LUSAS; and load rating all elements of the truss spans.
06/86 – 10/00	Complex Bridge Evaluation and Design, Florida DOTD, Statewide, FL. Senior Bridge Engineer. Evaluation and design of complex bridges in Florida. Projects: • Indian River, Vero Beach, FL, Bridge No. 880054 • Big Carlos bridge (#120028), Lee County, FL • Oakland Boulevard, Fort Lauderdale, FL, Bridge No. 860941 • Longboat bridge (#130057), Sarasota, FL • S.R. 706, Jupiter, FL, Bridge No. 930007 • Laurel street bridge (#105503), Tampa, FL • Delray Beach, FL, Bridge No. 930064

Firm employed by.



Name	Osama Elsaad, ME, PE	Years of relevant experience with this employer	10
Title	Structural Engineer and Project Manager	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	ME / 2017 / Civil Engineering (Structural) BS / 2016 / Civil Engineering		
Active registration number / state / expiration date	PE.0045668/ LA / Exp. 09/30/2027 FHWA-NHI Bridge Inspection Training		
Year registered	2021	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Bridge Design and Load Rating		
Experience dates	Experience and qualifications relevant to the proposed contract		
	Mr. Elsaad is a structural engineer with 10 years of experience. His involvement in projects has included on-site inspection, bridge instrumentation and load testing, emergency bridge repair projects, bridge design, load rating evaluation, rehabilitation projects, and quantity/cost estimate preparation. He has been a Project Manager on multiple bridge design projects, bridge inspections, and bridge instrumentation and load testing. He has also completed the FHWA-NHI Bridge Inspection Training.		
	07/24 – Ongoing	H.010015 LA 143 Bayou D'Arbonne Bridge, LADOTD, Ouachita Parish, LA. Deputy Project Manager. The scope of work is to design and develop a new bridge to replace the existing bridge over Bayou D'Arbonne. The project consists of providing all necessary engineering design services (Stage 3) required to construct the new bridge structure. The new bridge consists of prestressed concrete LG-45 girders with a total bridge length of 500 feet. Responsibilities include the following: • Supervise the execution of the design calculations and plan development. • Design the superstructure. • Construction cost estimate. • QA/QC review of bridge design plans	
	11/25 – 03/26	H.016525 TO No.2: US80 Mile Creek Bridge, LADOTD, Webster Parish, LA. Project Manager: The scope of work is to conduct an initial inspection of the existing substructure condition, provide training to LADOTD maintenance personnel on the substructure restoration and preparation, CFRP application, Quality Control procedures, and UV coating application, prepare a final report documenting the completed repairs, and develop a Load Rating Report incorporating the repairs. Responsibilities include the following: • Led inspection, field restoration, and CFRP application training. • Led load rating and rehabilitation report	
	02/25 – 06/25	I-110 NB at Convention St. Fire Damage repair, LADOTD, East Baton Rouge Parish, LA. Project Manager. The bridge was subjected to fire that damaged the substructure and superstructure. The scope of the project includes in-depth inspection, rehabilitation plans, and construction support. The rehabilitation plans consisted of cleaning and painting, concrete restoration of the substructure, and CFRP laminate application to the bent caps, columns, and risers. Responsibilities include the following:	

	• Supervise the execution of the in-depth inspection. • Supervise the execution of the rehabilitation plan development. • Construction cost estimate. • QA/QC review of rehabilitation plans • Post-rehabilitation construction support
08/23 – 06/25	H.009730.5: IDIQ for Bridge Inspection, LADOTD, Statewide, LA. <i>Project Manager.</i> The scope was to perform a routine, in-depth, and fracture critical inspection of the bridges and create an inspection report create an inspection report in InspectX. The inspection was in conformance with the AASHTO Manual for Bridge Evaluation, the NBIS, and the LADOTD Bridge Inspection Manual. Responsibilities include led in-depth inspections; condition assessment and identified deficiencies; coordinated with subcontractors; QA/QC of inspection reports and quantities; recommended rehabilitation actions; and developed rehabilitation plans. Projects: • US-190 over Mississippi River Bridge, East Baton Rouge, LA • US-80 Texas Street over Red River Bridge, Bossier Parish, LA • I-20 over Mississippi River Bridge, Delta, LA • LA 27 Bridge over ICWW Gibbstown, Cameron Parish, LA • LA 3213 over Mississippi River Bridge, Gramercy, LA
05/17 – Ongoing	Load Rating, Evaluation, and Load Testing, LADOTD, Statewide, LA. <i>Deputy Project Manager and Lead Engineer.</i> The work consisted of plan review, planning, developing load rating models, instrumentation, conducting load testing, and developing rehabilitation plans as directed by DOTD. For each bridge, a comprehensive report was created, including the NDT and load test results, load rating, rehabilitation recommendations, and rehabilitation plan development. Responsibilities include planning all aspects and supervising the execution of each project task; conducting QA/QC; developed/reviewed models; preparing load rating and final reports; preparing rehabilitation plans, final QC of load rating and load testing reports. Projects: • 4400017310: Task Order No. #8 NDT, Statewide, LA • H.009859: LA0001 Over Plaquemine Bridge, Iberville Parish, LA • H.012485.1: Load Testing and Evaluation of 19 Bridges, Statewide, LA • H.009859.5: Evaluation and Load Testing of Substructure of Nine Bridges, Statewide, LA • H.009859.5: Evaluation and Load Testing of Five Posted Bridges, Statewide, LA • H.009859.5: Load Rating and Rehabilitation of LA 3094 Bridge Over KCS RR, Caddo Parish, LA • H.009859.5: Load Rating of 114 Bridges • H.012485.5: Load Rating of 176 Bridges • H.012485.5: Load Rating of 617 Bridges • H.009859.5: Load Rating of 27 Complex Bridges

Firm employed by.  SDR Engineering Consultants			Meets MPR No 4
Name	Zhiyong Liang, PhD, PE	Years of relevant experience with this employer	17
Title	Vice President	Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization	PhD / 2008 / Civil Engineering MS / 2004-2005 / Civil Engineering-Computer Science BS / 1996 / Civil Engineering		
Active registration number / state / expiration date	PE.0034873 / LA / Exp. 03/31/2028 FHWA-NHI Bridge Inspection Training		
Year registered	2009	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Bridge Design		
Experience dates	Experience and qualifications relevant to the proposed contract		
	Dr. Zhiyong Liang specializes in the inspection, design, load rating, and condition evaluation of steel and concrete bridges. He has served as both Project Manager and Engineer of Record on numerous successful projects involving bridge inspection, load rating, design, testing, and rehabilitation. With a multidisciplinary background in Civil Engineering and Computer Science, Dr. Liang brings a unique blend of technical expertise and innovation to his work. He is proficient in operating a wide range of bridge inspection and testing equipment, conducting advanced data analysis, and developing custom software tools to support bridge assessment and data management. Dr. Liang has a strong foundation in finite element modeling (FEM) and structural analysis, complemented by extensive hands-on experience at bridge sites. He played a key role as Lead Engineer in the development of the DOTD BDEM, contributing to statewide standards and practices. He is also certified through the FHWA-NHI Bridge Inspection Training Program and is qualified to serve as a bridge inspection manager and team leader.		
	08/19 – Ongoing	H.011309: MacArthur Interchange Completion, Phase II, LADOTD, Jefferson Parish, LA. Lead Engineer. The scope of work is to provide two new on-ramps and off-ramp connections between the eastbound of West Bank Expressway (US 90-Z) and Frontage road, demolish the existing off-ramp, and widen the US 90-Z bridge to accommodate the new ramps. The project consisted of providing all necessary engineering design services (Stage 3) to construct the two separate ramp structures and to relocate the Frontage road. To accommodate the new structures for the two ramps, the Frontage road required relocation along with utilities while maintaining all business access. Responsibilities include the following: • Lead the design and plan development of the superstructure. • QA/QC review of substructure design and plans production. • Lead construction cost estimate	
	10/18 – Ongoing	H.011487: LA 182 Over Atchafalaya River (Berwick Bay) Bridge Rehabilitation, LADOTD Lafayette, LA. Project Manager: The bridge consists of three main trusses with a span length of 608 feet each, two 126-foot deck truss spans, and 40 concrete T-beam spans with a length of 40 feet. The scope included inspection, load test, load rating, and rehabilitation design of the entire bridge. Responsibilities include the following: • Led the in-depth inspection and non-destructive test (NDT) using strain gauges. • Led load rating and rehabilitation scope development. • Led the rehab design and preparation of construction plans	

11/15 – 10/17	H.011484): US-80 Texas Street Bridge Rehabilitation, LADOTD, Shreveport, LA . <i>Project Manager.</i> The bridge consists of a main truss span comprised of two 182-foot anchor spans and one 520-foot steel cantilever span, six 102-foot 9-inch steel deck truss spans, a 91-foot steel girder span, and 35 reinforced concrete deck girder approach spans of varying span lengths. Responsibilities include the following: • Coordinating all activities with the DOTD project manager and participating in the following tasks: • Led the inspection and load rating activities. • Review the estimated quantities and prepare the final report. • Led design of the rehabilitation schemes and prepared the final plans. • Construction Support
03/10 – 08/19	Load Rating of Complex & Simple Bridges, LADOTD, Statewide, LA. <i>Project Manager.</i> Lead the inspection and load rating of many complex bridges including major truss bridges, swing bridges, lift bridges, pontoon bridges, tapered steel U-girder bridges, and bridges with special layouts such as flared girders or curved deck, etc. Most of the bridges required refined 3-D finite element modeling and/or special analysis to obtain the proper rating. Responsibilities include in-depth field inspection to assess the deterioration that may affect the bridge rating; Build 3D finite element model using Midas or Lusas; Review load rating results and refine the analysis to avoid unnecessary posting; Provide repair or strengthening recommendations and cost estimate of construction. Projects: • H.012485.5: Load Rating of 27 Complex Bridges (02/2019–08/2019) • H.009859.5: Load Rating of 18 Complex Bridges (01/2018–06/2019) • H.011484:US 80 Red River Bridge Texas St Rehab (major truss bridge) (12/2015–04/2018) • H.009859.5: Load Rating of 10 Truss Bridges (01/2013–08/2016) • H.009859.5: Load Rating of 18 Posted Bridges (01/2015–08/2015) • H.009859.5: Load Rating of 114 Bridges (07/2022–2024) • H.012485.5: Load Rating of 176 Bridges (03/2021–09/2021) • H.012485.5: Load Rating of 617 Bridges (07/2019–06/2021)
03/10 – 05/12	H.005380.5: Evaluation and Load Rating of Three Major Truss Bridges, LADOTD, Statewide, LA . <i>Project Manager.</i> This project was a complete evaluation and load rating of three major truss bridges, including the approach spans: Mississippi River Bridge at Vicksburg (4,210 feet), Sunshine Bridge at Donaldsonville (8,236 feet), and I-10 Calcasieu River Bridge at Lake Charles (6,617 feet). The bridges consisted of main steel truss spans, prestressed concrete or steel approach spans, and reinforced concrete or steel bent caps. Responsibilities include the following: • Determine the overall scope of the project and the major analysis methods/software to be used. • Review the inspection report and determine the effect of section losses and deficiencies on load rating. • Build the finite element model for the main truss and rate the truss members and gusset plates. • Load rate the approach spans using VIRTIS; load rate the substructure using RC-Pier and spreadsheets. • Write the final report and supervise the junior engineers

Firm employed by: 			Meets MPR No. 7
Name	David A. Kanger, PE	Years of relevant experience with this employer	29
Title	Senior Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		MS 1996 Civil Engineering BS 1995 Civil Engineering	
Active registration number / state / expiration date		PE. 29048 / LA / Exp. 09/30/2026	
Year registered	2000	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities		Bridge Design & Load Rating Services	
Experience dates	Experience and qualifications relevant to the proposed contract		
	Mr. Kanger is senior project manager in the firm's New Orleans office. His design experience includes work in all phases of the design process from preliminary project development through construction support. He has acquired significant emergency repair and field inspection experience, including truss inspection, pin replacement monitoring, construction support for the Huey P. Long Bridge substructure and superstructure widening, and condition assessment of the New Orleans Westbank Expressway. He is well-founded in designs using AASHTO and AREMA codes, including the development of hybrid highway-railway design criteria for the Huey P. Long Bridge Widening. He has extensive design experience with LRFD, load factor and working stress design. Mr. Kanger will fulfill MPR No. 7 for this contract.		
11/20 – Ongoing	H.014564 Bayou Barataria Swing Bridge Allision Repairs. Lafitte, LA, LADOTD. In 2020, Modjeski and Masters provided emergency services in response to a vessel collision. M&M performed an initial damage inspection in addition to mechanical and electrical inspections of the structure. Previously in a separate task order, M&M developed and prepared a Navigation Impact Study in accordance with USCG requirements for the proposed crossing location over Bayou Barataria that would replace the existing structure. This study obtained and analyzed information related to present and future navigation uses and needs for the purposes of developing and evaluating alternatives for the new bridge. M&M is also providing a temporary fender repair design. Mr. Kanger served as the structural lead and EOR.		
11/16 – 09/22	West Larose Vertical Lift Construction Services. Larose, LA, LADOTD. M&M provided rehabilitation plans for the upgrade of the structural, electrical, mechanical system to extend the life of the bridge 30-40 years for this vertical lift bridge. Additionally a new fender system was designed, the operator house was significantly upgraded, and bridge repainted. A bridge inspection and development of scope of service preceded the preparation of plans. Mr. Kanger served as Project Manager and EOR for this project.		
12/16 – 06/25	4th Street Harvey Rehab. Harvey, LA, LADOTD. M&M provided construction support services for the rehabilitation of the double leaf rolling bascule bridge over the Harvey Canal in Harvey, LA. This was a continuation of previous design work orders in which M&M designed the necessary rehabilitation to extend the structure life by 40 years. Work included replacing the rolling lift tread and track plates and a new hydraulic operating system. Structural, Mechanical, and Electrical rehabilitation of a double rolling leaf bascule bridge was part of the scope of work. Mr. Kanger provided construction support services for this project.		
05/16 – Ongoing	US 11 Bridge Rehabilitation Design, New Orleans, LA, LADOTD. M&M provided structural, mechanical, electrical, and architectural rehabilitation services to extend the service life of the US 11 North and South bascule spans. In addition to repairs and improving the structural capacity to eliminate the weight posting of the bridge, the operator's house will be		

	enlarged, and the span converted to hydraulic operation. The South bascule span is only opened manually (with a crane) when access is needed to service electrical utility lines crossing the lake. The span toes will be replaced to improve the structural capacity to eliminate the weight posting of the bridge. The operator houses will be rehabilitated to retain their historic appearance. The bascule spans comprise the largest spans (149') of the overall 4.7-mile bridge over Lake Pontchartrain. Mr. Kanger was the Structural EOR and the project manager for this project.
04/06 – 02/14	Galveston Causeway Railroad Bridge Replacement. Galveston, TX, Galveston County. The Galveston RR Bridge is a 384-foot vertical lift span replacing the existing 125-foot bascule span and portion of the existing concrete arch spans to provide 300' horizontal navigation clearance by the order of USCG under the provisions of Truman-Hobbs Act. The project involves a complicated foundation arrangement, removal and anchorage of the existing arch structures, special truss and tower design, and challenging construction issues. Mr. Kanger provided preliminary tower design and field site survey for this project. He also provided construction support activities.
01/01 – 05/02 02/09 – 02/09	Fort Madison Bridge Replacement. Ft. Madison, IA, BNSF Railway Company. BNSF Railway requested M&M to value engineer their 10+ year old rehabilitation design of the Fort Madison Bridge across the Mississippi River. M&M reviewed the foundation design, painting, type of drive system and usage of high performance steel to determine if the design could be modified to reduce the potential construction cost. M&M was able to identify some cost savings alternatives that were now available after the original design work, which was performed in 2003. Mr. Kanger was the EOR for the design of substructure and foundation, tower top, and operator's house.
09/04 – 05/06	Electrical Rehabilitation of Louisville Street Bascule Bridge & East Pearl River Swing Bridges. Monroe and St. Tammany Parishes, LA, LADOTD. M&M prepared the electrical plans with specification notes for the rehabilitation of the Louisville Street Bridge over the Ouachita River in Monroe, LA and the East Pearl River Bridge over the Pearl River in LA. Both bridges were in need of an electrical rehabilitation including lighting, gears and generator replacement. M&M also provided construction support services. Mr. Kanger provided structural evaluation, field inspection and details for submarine cable replacement for this double-leaf bascule bridge.
07/05 – 03/06	West Lake Swing Bridge - No.220.62. Lake Charles, LA, Union Pacific Railroad. Bridge No. 220.62 is a 222-foot through-truss swing bridge across the Calcasieu River. The project includes structural, mechanical and electrical modifications to provide for remote control of this mainline railroad bridge. The project provides complete new bridge electrical and PLC-based control systems and the conversion of manually operated machinery to a modern variable speed hydraulic drive for operating the bridge from the remote bridge tender's house on shore. Structural modifications will provide for supports for new electrical and mechanical equipment bungalows on the swing span. Center wedges, end wedges and rail lifts are also being converted to hydraulic operation. Closed circuit TV will provide for visual monitoring of the miter rail joints and marine traffic. Mr. Kanger provided design of swing bridge mechanical and operator house and platform replacement.

Firm employed by:



Meets MPR No. 5

Name	Geoffrey L. Forest, PE	Years of relevant experience with this employer	23
Title	Mechanical Bridge Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	MS 2001 Mechanical BS 2000 Mechanical		
Active registration number / state / expiration date	PE.45721 / LA / Exp. 09/30/2027		
Year registered	2021	Discipline	Mechanical Engineer
Contract role(s) / brief description of responsibilities	Bridge Design & Load Rating Services		
Experience dates	Experience and qualifications relevant to the proposed contract		



Mr. Forest joined Modjeski and Masters, Inc. in 2002 and is a Project Manager in the Mechanical Section of the firm. He has experience in designing machinery for new movable bridge construction, as well as detailing machinery for bridge rehabilitations. Additionally, he has participated in various inspections of both fixed and movable bridges. Mr. Forest also has experience in bridge construction monitoring, inspection and condition reporting, detailing bridges for rating capacity, development of contract plans and specifications. Mr. Forest will fulfill MPR No. 5 for this contract.

09/22 – 01/24

S.P. H.014465, LA 82 Vermillion River Vertical Lift Bridge (Perry) Rehabilitation, Vermillion Parish, LA, LADOTD. The Perry Vertical Lift Bridge is located on Hwy 82 in Vermilion Parish crossing the Vermilion River. The main span consists of a 75 foot lift span consisting of two main girders. The deck is an open grid deck supported on stringers and floorbeams. From abutment to abutment the bridge is approximately 383 feet long consisting of concrete decks on steel stringers. The superstructure is supported by piles. M&M led a team providing structural, mechanical, electrical, and architectural rehabilitation services to extend the service life of this bridge. Mr. Forest was the EOR and led the mechanical design team for this vertical lift bridge rehabilitation. He led plan and specification development for replacement of the main drive machinery, counterweight ropes and sheaves, span rollers and guides, span locks and removal of existing equipment.

01/14 – 04/20

US 11 Bridge Rehabilitation Design, New Orleans, LA, LADOTD. M&M provided structural, mechanical, electrical, and architectural rehabilitation services to extend the service life of the US 11 North and South bascule spans. In addition to repairs and improving the structural capacity to eliminate the weight posting of the bridge, the operator's house will be enlarged, and the span converted to hydraulic operation. The span toes will be replaced to improve the structural capacity to eliminate the weight posting of the bridge. The operator houses will be rehabilitated to retain their historic appearance. Mr. Forest was the EOR and led the mechanical design team for this unique bridge rehabilitation. The original machinery design included electric motors, open gearing, and a final rack and pinion set to move the bascule leaves. The span drive system was converted to hydraulic operation using linear hydraulic cylinders acting directly on the bascule girders. The bascule leaf superstructure and pier were modeled in 3D to aid in locating clearances and interferences with the new operating machinery.

10/13 – 06/15
01/23 – 04/25

4th Street Harvey Bridge over Harvey Canal, Harvey, LA, LADOTD. Categorized as a high priority project for DOTD, M&M was engaged to develop a scope for the rehabilitation of the structural, electrical and mechanical systems for extending the life of the bridge 30-40 years. Plans include replacing the grid deck, new track and tread plates, replacing hydraulic system, new electrical control system, generator, and repainting the bridge. The new span drive was modeled after other LADOTD

	hydraulic span drives for consistency, but tailored specifically for this bridge. The design also included replacement of the center locks and tail locks with components that better retain the alignment of the spans. Mr. Forest served as the mechanical EOR and performed mechanical design for the rehabilitation. The work consisted of replacing the hydraulic span drive system in its entirety, as well as the track and tread plates. A staggered gear tooth profile was using in the track and tread design, which was modeled in 3D to create and verify the complex shapes. He also provided construction related engineering support.
12/15 – 06/16	UPRR 305.45 Angleton Sub San Bernard Bridge, Sweeney, TX, Union Pacific Railroad. M&M provided engineering services for a new vertical lift bridge that replaced an existing swing span bridge over the San Bernard River in the Angleton Subdivision of the Union Pacific Railroad. M&M provided the design and construction support, accommodating an accelerated construction schedule. The new bridge was designed to be “remote control ready.” Mr. Forest was the mechanical EOR and designed machinery systems for the main span drive, span locks, and span support. He took part in reviewing submittals and RFI’s, assisting Union Pacific Railroad with changes and disputes, and confirming that the as-built condition complied with the plans and specifications.
12/14 – 12/17	In-Depth Inspection of Complex Structures Retainer – Various Bridges (Statewide), LADOTD. As a member of a multi-firm team, M&M was tasked to provide structural, mechanical, electrical, and coatings inspection services to perform multiple in-depth bridge inspections for various bridges throughout the state of Louisiana, as a part of the ongoing statewide Complex Structures Inspection Retainer with the LADOTD. The inspections were performed using technical rope access and rappelling, aerial work platforms, and standard climbing techniques. Bridge conditions, including specific defects, were documented and presented in an inspection report and PONTIS/Inspect-Tech forms, along with repair recommendations and a full coatings evaluation report. Mr. Forest performed an in-depth condition inspection of the operating machinery for the movable bridges and authored the mechanical section of the inspection report.
03/10 – 06/16	Houma Navigation Canal Bridge Rehabilitation. Houma, LA, LADOTD. The Houma Navigation Canal Bridge is a swing bridge operated by hydraulic slewing cylinders. M&M provided engineering design services for the rehabilitation of the drive machinery of this bridge. Mr. Forest performed field inspection and strain gage balancing of the existing operating machinery and design of the new machinery for the upgrade of the span drive system. Mr. Forest performed shop drawing review and response to Contractor RFI's. He also performed on site machinery installation support and inspection during construction.
03/07 – 05/11	Mermantau Street Swing Bridge Rehabilitation, Grand Chenier, LA, LADOTD. This project involved the performance of an in-depth inspection of this structure, a two-lane, pony truss swing span bridge crossing the Mermantau River at Grand Chenier, LA. Inspection findings led to the preparation of plans and specifications for the repair/replacement of bridge components damaged, worn or deteriorated from corrosion (structural, electrical and mechanical). Mr. Forest was the lead mechanical design engineer for the inspection and repair plans/specs.

Firm employed by:



Meets MPR No. 6

Name	Jonathan E. Gerhart, PE	Years of relevant experience with this employer	15
Title	Electrical Engineer	Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization	BS 1998 Mechanical Engineering		
Active registration number / state / expiration date	PE. 43052 / LA / Exp. 03/31/2027		
Year registered	2018	Discipline	Electrical Engineer
Contract role(s) / brief description of responsibilities	Bridge Design & Load Rating Services		
Experience dates	Experience and qualifications relevant to the proposed contract		



Mr. Gerhart is a Senior Project Manager in Modjeski and Masters' Electrical Engineering Section and has over 27 years of experience in the design of electrical distribution systems, control systems and safety systems for movable bridges. Mr. Gerhart will fulfill MPR No. 6 for this contract.

09/22 – 10/24

S.P. H.014465, LA 82 Vermillion River Vertical Lift Bridge (Perry) Rehabilitation, Vermillion Parish, LA, LADOTD. The Perry Vertical Lift Bridge is located on Hwy 82 in Vermilion Parish crossing the Vermilion River. The main span consists of a 75 foot lift span consisting of two main girders. The deck is an open grid deck supported on stringers and floorbeams. From abutment to abutment the bridge is approximately 383 feet long consisting of concrete decks on steel stringers. The superstructure is supported by piles. M&M led a team providing structural, mechanical, electrical, and architectural rehabilitation services to extend the service life of this bridge. Mr. Gerhart was the EOR and led the electrical design team for this vertical lift bridge rehabilitation. He led plan and specification development for the removal/repair/replacement of the electrical system and equipment for various components in the operator house.

05/16 – 12/22

US 11 Bridge Rehabilitation Design, New Orleans, LA, LADOTD. M&M led a team providing structural, mechanical, electrical, and architectural rehabilitation services to extend the service life of the US 11 North and South bascule spans. The North bascule span is the only routinely operated span. In addition to repairs and improving the structural capacity to eliminate the weight posting of the bridge, the operator's house will be enlarged, and the span converted to hydraulic operation. The South bascule span is only opened manually (with a crane) when access is needed to service electrical utility lines crossing the lake. The span toes will be replaced to improve the structural capacity to eliminate the weight posting of the bridge. The operator houses will be rehabilitated to retain their historic appearance. The bascule spans comprise the largest spans (149') of the overall 4.7-mile bridge over Lake Pontchartrain. Mr. Gerhart was the EOR and lead electrical engineer for the complete electrical rehab of the power distribution, control system, and roadway lighting on the bridge.

06/12 – 07/16

LA 1 West Larose Vertical Lift Bridge over ICWW, Larose, LA, LADOTD. M&M provided rehabilitation plans for the upgrade of the structural, electrical, mechanical system to extend the life of the bridge 30-40 years for this vertical lift bridge. Additionally a new fender system was designed, the operator house was significantly upgraded, and bridge repainted. A bridge inspection and development of scope of service preceded the preparation of plans. Mr. Gerhart inspected the current

	condition of the electrical system and recommended the necessary improvements. Mr. Gerhart was the EOR and lead designer of the electrical system rehabilitation.
08/12 – 08/19	Fore River Bridge, Quincy, MA, Mass DOT. As part of the design/build team led by the joint venture of White-Skanska-Koch and Parsons, M&M provided the final mechanical and electrical design for the Fore River Bridge lift span. The replacement of the Fore River Bridge, carrying Route 3A, is a signature project in the Massachusetts Accelerated Bridge Program. The new proposed vertical lift bridge provides a horizontal navigable channel of 250' and a vertical clearance of 175' in the open position. Extensive rehabilitation was required for the approaches to the proposed structure in addition to demolition of the existing temporary bridge and associated fender system. In addition to the mechanical and electrical services for the lift bridge replacement, M&M was also tasked with the vessel collision analysis and fender protection design. Mr. Gerhart was the EOR and lead electrical engineer for this project.
10/13 – 06/15	4th Street Harvey Bridge over Harvey Canal, Harvey, LA, LADOTD. The bridge, a double leaf rolling bascule movable bridge, is approximately 40 years old and has recently experienced reliability problems. Categorized as a high priority project for DOTD, M&M was engaged to develop a scope for the rehabilitation of the structural, electrical and mechanical systems for extending the life of the bridge 30-40 years. Plans include replacing the grid deck, new track and tread plates, replacing hydraulic system, new electrical control system, generator, and repainting the bridge. Mr. Gerhart was the EOR and lead electrical engineer for this project.
01/11 – 09/15	Jackson Street Bridge Rehabilitation, Alexandria, LA, LADOTD. M&M prepared the preliminary and final plans for the Jackson Street Bridge rehabilitation over Red River in Alexandria, LA. The rehabilitation includes repairing abutment damage caused by pavement growth, damaged approach slab, providing a relief mechanism for future growth, rehabilitating the lift span steel grid deck, and replacing the bridge & operating house electrical components. Mr. Gerhart performed an inspection of the existing condition of the electrical systems and provided recommendations for the necessary improvements. Mr. Gerhart also participated in the rehabilitation design
12/10 – 08/16	Houma Navigational Canal Bridge Rehabilitation, Houma, LA, LADOTD. The Houma Navigational Canal Bridge is a swing bridge operated by hydraulic slewing cylinders. M&M is providing engineering design services for the rehabilitation of the drive machinery of this bridge. Mr. Gerhart was an Electrical Specialist on this project and was responsible for the design of the electrical system and provided construction support. Mr. Gerhart also performed the electrical inspection for this project.
08/11 – 01/12	Lapalco Bascule Bridge Repairs, Harvey, LA, Jefferson Parish Dept of Public Works. This 2,840' long four-lane high-rise bridge contains a double-leaf bascule girder span over the Canal. Over a period of years, for Jefferson Parish, M&M has inspected the bridge, developed plans for upgrading structural, electrical and mechanical components and provided construction support services. Emergency responses have been made following both marine collisions and hurricanes. Mr. Gerhart was part of the electrical design team.

Firm employed by.  moffatt & nichol

Name	Chace Hulon, P.E.	Years of relevant experience with this employer	11
Title	Senior Bridge Engineer	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization	BS / 2005 / Civil Engineering, Norwich University		
Active registration number / state / expiration date	PE.0039701 / LA / Exp. 09/30/2027		
Year registered	2015	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Bridge Design & Load Rating Services / Bridge Inspection Services		

Experience dates	Experience and qualifications relevant to the proposed contract
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	Mr. Hulon is the discipline lead for inspection and rehabilitation services at Moffatt & Nichol. He has 21 years of direct experience with bridge inspection and preservation. He has been intimately engaged with the evolution of the NBIS, including the various changes with the federal and state agencies. Additionally, he has worked closely with the LADOTD staff and the FHWA Louisiana representatives to develop the first comprehensive LADOTD Bridge Inspection Manual as the chief editor. He has a specialized expertise in assessing submerged elements as an engineer-diver to analyze rates of deterioration of all materials in the marine environments. He is also a professional rope access technician who routinely solves access issues safely and efficiently. He has performed non-destructive testing and partially destructive testing investigations to accurately analyze timber, steel, and concrete deterioration while assessing service life or remaining live load capacities.
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01/14 – Ongoing	IDIQ for Underwater Bridge Inspections, LADOTD, Statewide, LA. Project Manager and Inspection Team Leader. Leading M&N's fourth consecutive contract to provide NBIS Underwater Bridge Inspections across the state, but focusing in Districts 03, 07, 61, and 62. When completed, a total of 2,712 bridges will be inspected under all task orders combined. Managing and leading in-depth inspections on signature bridges over large waterways with deep foundations and dynamic channel conditions. Inspections augment high resolution multibeam acoustic imaging technology to accurately monitor streambed conditions and structural deficiencies between inspection cycles. Continually responding to several emergency requests for engineering condition assessments and providing repair recommendations.
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01/23 – Ongoing	SNBI Program Development and Manual Publications, LADOTD, Statewide, LA. Project Manager, Chief Editor, and Chairman of the Committee to develop the Bridge Inspection Manual (BIM) (including off-system directives), the Bridge Load Rating Manual, and the Coding & Field Guide. The redevelopment is a result of the recent NBIS changes in the CFR and the implementation of the Specifications for the National Bridge Inventory (SNBI). The Manual will be fully compliant with the FHWA SNBI Program Metrics in accordance with the published timeline. The Manual will be uniquely ordered in a systemic fashion with an appendix to store all vital updated forms for the Bridge Inspection Program. Following delivery, acceptance and publishing a training will be delivered to all Districts on the newly released BIM document. M&N has been retained for 5 years to provide critical updates following NBIS changes.
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03/19 – 8/24	In-Depth Bridge Inspections, LADOTD, Statewide, LA. Project Manager and NBIS Team Leader to perform in-depth bridge inspections on complex and movable bridges. As a major subconsultant to HNTB, Moffatt & Nichol performed in-depth inspections (fulfilling both routine and fracture critical inspection types) as a quality assurance measure on the District personnel for the Headquarters Bridge Inspection Office. Level III inspections of submerged elements in accordance with the
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	FHWA, BIRM, AASHTO MBE, AASHTO BEIM, and the BIM were required as needed. Bridge types included cantilever trusses, cable-stayed bridges, movable swing span bridges and bascule bridges.
06/22 – 12/24	Bridge Inspection Services at USAG Fort Polk, USACE Vicksburg District and ERDC, Leesville, LA. <i>Project Manager and Team Leader.</i> Led the condition assessments reportable bridges in the Fort Polk inventory. M&N was tasked with three consecutive projects at Fort Polk from 2022-2024 to inspect a total of 156 roadway and railroad bridges. Structure types included multi-beam reinforced concrete bridges, reinforced concrete pipe and box culverts, and corrugated metal arch bridges and pipe culverts. Led and supervised the underwater inspection of four bridges with high water levels to assess undermining of spread footings and provided repair recommendations and ROM cost estimates for repair. Performed final quality assurance report reviews and coordinated the submittal packages.
01/23 – 02/26	IDIQ for Complex Bridge Inspection, LADOTD, Statewide, LA. <i>Project Manager and Chief Editor.</i> Managed updates to 2020 bridge maintenance manuals to incorporate the 2022 NBIS Final Rule. Delivered On-System, Off-System, and Coding & Field Guides, published in December 2024 for full compliance by 2025 and FHWA audit readiness. Collaborated with LADOTD, led monthly progress meetings, and streamlined inspection forms and guidance for usability. Performed inspections on complex movable, long-span, cable-stayed, and fracture-critical bridges using rope access, UAS, and nondestructive testing. Installed SHM systems, assessed NSTM deficiencies, and evaluated structural conditions. Managed QC review processes and applied traffic-minimizing inspection methods.
11/23 – 06/25	2023 IDIQ Underwater Bridge Inspections, MDOT, Statewide, MS. <i>Project Manager.</i> Responsible for a three-year retainer contract for Level I, II, and III underwater inspections of 69 bridges in MDOT Districts 5 and 2 in accordance with FHWA BIRM, AASHTO MBE, current NBIS requirements and the MDOT PONTIS Inspection Manual for Bridges. Reviewed and evaluated critical structural conditions and communicated necessary actions of remedy. Responded within 24 hours to an emergency inspection request. Underwater acoustic imaging techniques were deployed to map out limits of scour and quantities required for a riprap repair. M&N is currently on a third IDIQ retainer contract.
05/15 – 07/15	Bulkhead Assessment, Halliburton, Port Fourchon, LA. <i>Project Manager and Team Leader.</i> Responsible for a design level assessment of the 500' long steel sheet-pile bulkhead. Level I, II, and III inspections were performed on submerged elements in accordance with the ASCE Underwater Investigations Standard Practice Manual and ASCE Waterfront Facilities Inspection and Assessment. High-resolution scanning sonar was used on selected structural elements that were in serious condition. Provided a cost estimate for rehabilitation.

Firm employed by.  moffatt & nichol

Name	Bryan Tyson, PE, ADCI	Years of relevant experience with this employer	6
Title	Engineering Condition Assessment Lead; Structural Engineer; ADCI Diver	Years of relevant experience with other employer(s)	9

Degree(s) / Years / Specialization	MS / 2010 / Civil, Texas A&M BS / 2008 / Civil Engineering
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Active registration number / state / expiration date	PE.0043425 / LA / Exp. 03/31/2027
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Year registered	2016	Discipline	Civil Engineering
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Contract role(s) / brief description of responsibilities	Bridge Design & Load Rating Services / Bridge Inspection Services
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Experience dates	Experience and qualifications relevant to the proposed contract
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Mr. Tyson has more than 15 years of structural bridge engineering experience working on multiple large-scale inspection projects, including new construction and repair projects. Projects include design of steel, concrete, and wood marine structural components, including relieving platforms, bent beams and caps, mooring and berthing dolphins, steel sheet pile bulkhead, combination wall bulkhead, tie rods, and vertical and batter piles. Bryan is a National Highway Institute (NHI)-certified bridge inspector, certified both in commercial diving and industrial rope access.

04/24 – Ongoing	IDIQ Contract for Bridge Inspection Services, LADOTD, Statewide, LA. <i>Inspection Team Leader.</i> Led in-depth inspection (fulfilling both routine and fracture critical inspections) of several large bridges within Louisiana. Provided site mob/demob and bridge inspections. Level III inspections were completed in accordance with FHWA, BIRM, AASHTO Manual for Bridge Evaluation, AASHTO BEIM, and the LaDOTD Bridge Inspection Manual. Bridges included Interstate 10 (John James Audubon) Bridge over Mississippi River, Ventress with in-depth inspection of structure's towers and cable stays using rope access techniques.
02/23 – 12/25	Specifications for the National Bridge Inventory (SNBI) Program Development and Manual Publications, LADOTD, Statewide, LA. <i>Structural Engineer.</i> Update & further development of Bridge Inspection Manual (including off-system directives), Bridge Load Rating Manual, and Coding & Field Guide. Update resulted from recent NBIS changes in CFR & implementation of SNBI. Manual will be fully compliant with the FHWA SNBI Program Metrics in accordance with published timeline. The manual will be uniquely ordered in a systemic fashion with appendix to store vital updated forms for Bridge Inspection Program. M&N retained for 5 years to provide critical updates following NBIS changes.
06/22 – Ongoing	IDIQ for Underwater Bridge Inspection, LADOTD, Statewide, LA. <i>Inspection Team Leader.</i> Led two tasks (to date) under M&N's third, consecutive contract to provide UW NBIS bridge insp. statewide. When completed, a total of 699 bridges will be inspected under those two tasks. Included in-depth UWI on signature bridges over large waterways with deep foundations and dynamic channel conditions. Inspected augmented NDE acoustic imaging technology to consistently monitor streambed changes and structural deficiencies between inspection cycles. Responded to several emergency requests for inspection within hours to days utilizing local personnel.
06/17 – 04/18	Underwater Bridge Inspection of Large River Crossings, LADOTD, Statewide, LA. <i>Structural Engineer and Inspection Team Leader/Diver.</i> Led two tasks under a five-year, open-end retainer contract to perform underwater bridge inspections

	throughout Louisiana. Provided Level I, II, and III inspections of submerged elements in accordance with FHWA, BIRM, AASHTO MBE, current NBIS requirements, and LaDOTD Engineering & Maintenance Directives. Bridge types included movable swing span, bascule, truss, timber stringer, cable-stayed, single & multi-span bridges up to 8 miles long. Assisted with preparation of NBIS inspection reports. Provided inspection of 41 major bridges over large waterways with deep foundation & dynamic channel conditions. Assisted preparation of NBIS inspection reports.
12/15 – 10/16	Dock Inspections, Lake Charles, LA. <i>Structural Engineer</i>. Inspection of topside structures, including timber and concrete piles, timber framing, concrete beams, deck and slab, fender systems, and bulkheads. Inspected all berths for the Port of Lake Charles and drafted reports for recommended rehabilitation projects and design options. Devised creative design and construction methods to allow the port to continue normal operations as repairs were completed.
11/15 – 02/16	Ship Dock Rehabilitation, Deer Park, TX. <i>Structural Engineer</i>. As part of a design-build team responsible for designing the berthing dolphin and fender system to sustain worst-case loading. Performed submittal reviews and worked with the manufacturer and client to make sure the proper system with correct specifications were put in place.
05/15 – 12/15	Marine Facilities Front-End Engineering Design, Port Arthur, TX. <i>Structural Engineer</i>. Responsible for the designing of berthing and mooring dolphins and loading platforms, including prestressed slab deck, loading arm support structures, concrete beams, steel piles, and retaining wall bulkhead. Worked with the project manager and team to ensure proper deck layout to model accurate loading requirements for service loads. Modeled and designed walkways and marine service gangways to access dock and dolphin structures. Developed opinion of probable costs for all structural systems and dredging, as well as the design report and complete drawing set to communicate the recommended design to the client.
05/15 – 02/16	Marine Facilities, Brownsville, TX. <i>Structural Engineer</i>. Responsible for performing front-end engineering design (FEED) and developing documents for an export marine terminal on the Brownsville Ship Channel. The terminal comprises two berths up to 177,000 LNG carriers. Developed the marine basis of design, capital expenditure cost estimates, dredge material volumes, preliminary navigation channel design, and marine terminal layouts. During FEED, provided engineering services for the platform and trestle, perimeter levee overtopping, and scour and shoreline protection design.
09/15 – 03/16	Marine Facilities, Cameron Parish, LA. <i>Structural Engineer</i>. Led the development of the marine facilities' basis of design; conducting a metocean study, storm surge study, and vessel maneuvering and navigation study; developing material off-loading facilities and marine facilities layout; performing preliminary structural design; developing the material take-off and +/- 30% cost estimate; creating the preliminary Level I construction schedule; and assisting with developing permitting documentation required by the Federal Energy Regulatory Commission.

Firm employed by.



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Name	Christopher “Chip” Eschenbach, ADCI, CWI		Years of relevant experience with this employer	8
Title	NBIS Team Leader; ADCI Dive Supervisor		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			AS / 2015 / Welding Certifications: Bridge Inspection Refresher Training; Safety Inspection of In-Service Bridges; Underwater Bridge Inspection; Certified Weld Inspector; NSTM Inspection Techniques for Steel Bridges; ATSSA TCS Work Zone Safety; Society of Professional Rope Access Technicians; ADCI Dive Supervisor	
Active registration number / state / expiration date			N/A	
Year registered	N/A		Discipline	N/A
Contract role(s) / brief description of responsibilities			Bridge Design & Load Rating Services / Bridge Inspection Services	
Experience dates	Experience and qualifications relevant to the proposed contract			
			Mr. Eschenbach now has eight years as a bridge inspection team leader at M&N’s Baton Rouge, Louisiana office. His experience includes construction and inspection on various bridges, piers, and waterfront facilities throughout California, New York, New Jersey, Louisiana, Massachusetts, Mississippi, Texas, Colorado, Hawaii, Washington, and Ohio. His combined experience with welding, diving, and climbing has proven to be instrumental on bridge inspections of various sizes and complexities. Chip is a National Highway Institute (NHI)-certified bridge inspector, certified both in commercial diving and industrial rope access.	
07/21 – Ongoing			Underwater Bridge Inspections, LADOTD, Statewide, LA . NBIS Team Leader, Dive Supervisor, and Survey. Responsible for bridge inspection records and ratings, preparing dive safety plans and supervising high risk dive operations, and deploying the high resolution multibeam sonar system for data collection surveys. All bridge inspections over large waterways with high-risk environmental conditions were augmented with acoustic imaging technology. Hydrographic surveys are performed using the NORBIT WINGHEAD i77h (now the WINGHEAD X) multibeam sonar using a transducer array. Measurements are collected with integrated GNSS/INS systems and can be further processed with NOAA Continuously Operating Reference Stations (CORS) Network (NCN) to reduce measurement uncertainties. Two-and-three dimensional bathymetric maps can be produced to provide a georeferenced model of the riverbed near the structure. Provides quality control reviews of each visualization is through the QPS QINSy product, Qimera, and Applanix POSPac MMS systems. Provides report development and reviews for accuracy and standardization across teams.	
07/24 – Ongoing			Dry Dock Replacement, Pearl Harbor, HI. Dive Supervisor supporting a wide range of dive operations. Responsible for maintaining and inspecting dive and inspection equipment to ensure compliance with ADCI and U.S. Navy standards. Perform topside inspections and capture both above- and below-water imagery and video to support project documentation. Conducted quality control diving during construction activities, including the installation of the dry dock. Operated Norbit sonar systems for acoustic imaging and completed post-processing of sonar data for Navy reporting requirements. Support leadership with planning, preparation, and coordination of field operations.	

09/19 – 03/20	Underwater Bridge Inspection of Large River Crossings, LADOTD, Statewide, LA. <i>NBIS Inspector</i>. Responsible for the five-year retainer contract to perform Level I, II, and III underwater bridge inspections in accordance with NBIS and AASHTO Manual for Bridge Element Inspection. Completed underwater inspection fieldwork, inspection reports, and quality control reviews. Underwater acoustic imaging techniques were used to locate structural deficiencies, identify potential undermining, observe the limits of scour, and document the limits of riprap installations.
10/20 – 12/23	In-Depth Inspections of Complex Bridges, LADOTD, Statewide, LA. <i>NBIS Inspector</i>. Responsible for routine bridge inspections throughout Louisiana, including 100% visual inspections in accordance with NBIS requirements. Performed a routine bridge inspection of the cable-stayed Audubon Bridge above the deck utilizing rope access techniques in St. Francisville. Responsibilities included preparing SPRAT and climbing gear for inspection, coordinating with the other climbing teams, performing inspection on each cable for cable-stay bridge using rope access and performing inspection on the cable-stay towers, relaying defects and photographing defects found.
04/24 – 07/25	2023 IDIQ Underwater Bridge Inspections, MDOT, Statewide, MS. <i>Engineering Technician Diver</i>. Responsible for maintaining the diving and inspection equipment, planning and preparing all necessary tools and information, and providing field notes and observations. Maintained the inspection equipment entails routine maintenance, proper record keeping, using the manufacturer's recommendations to maintain high standards for our inspections, and making sure that the industry standards are met before anything is used. Planning and preparation have included the tools that are available for use and that all safety concerns are addressed. Provided field notes and observations using a diver or a non-diving inspection and taking photos or video.
03/18 – 08/21	On-Call Waterfront Facilities Inspection and Assessment Services, Port of Long Beach, CA. <i>Inspection Diver and Topside Inspector</i> for above-and below-water inspections of concrete and stainless steel pipe structures; equipment preparations; diving on all members or structures for inspection purposes; and assisted with inspection and data collection for the structures above the water. The diving operations used either surface-supplied diving or scuba diving techniques to ensure safe practices as well as clear and precise notations. The second part of the inspection was conducted above water; team members walked the entire structure, making meticulous notes where the diving team members left off. Other responsibilities included ensuring other operations went smoothly: tending a diver in the water, and running the communications station.

Firm employed by.



Name	Joshua J. Moore, PE		Years of relevant experience with this employer	19
Title	Senior Engineer & Field Inspector		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			BS, 2006, Civil Engineering	
Active registration number / state / expiration date			PE. 36342, LA, 09/30/2027	
Year registered	2011	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Bridge Inspection Services	
Experience dates	Experience and qualifications relevant to the proposed contract			
	Mr. Moore has over 19 years of bridge design, analysis, rating, and rehabilitation experience coupled with over 15 years of bridge inspection experience. He has been involved in a variety of projects including design, analysis, evaluation, and retrofit; routine, emergency, and forensic inspection; and construction and project management of complex steel and concrete structures. As a capable and experienced design engineer who is also a fully-trained and experienced NBIS field inspector, team leader, and SPRAT Level III rope access supervisor, Mr. Moore has served as an inspection team leader, rating engineer, and repair design engineer for multiple complex structures. His certifications include: NBIS 130055, 130053 (under new SNBI rules), Level II Liquid Penetrant and Magnetic Particle Inspection; SPRAT Level III Certified. Mr. Moore will serve as an Inspection Team leader and a lead engineer for load ratings on this project.			
09/22 – Ongoing	Mississippi Office of State Aid Road Construction Bridge Inspection and Related Services. Statewide, MS OSARC. Modjeski and Masters is the prime consultant to provide routine and fracture critical inspection and load rating services to MS-OSARC as part of a multi-year IDIQ project. M&M has completed over 100 bridge inspections and 15 load ratings for OSARC, utilizing various access methods including technical and rope access methods and UAV, and utilizes AASHTOWare to rate bridges. Mr. Moore is a Lead Bridge Inspector and also leads the bridge load rating team for this project.			
05/23 – 10/23	Stay Cable Inspection and Evaluation. Quincy and Alton, IL Illinois Department of Transportation. This project requires engineering services for the in-depth inspection of the stay cables and anchorages on the Quincy Bayview Bridge carrying US 24 Westbound over the Mississippi River at Quincy, and the Clark Bridge carrying US 67 over the Mississippi River at Alton. The contract also calls for the structural evaluation of the cables, based on the findings of the in-depth inspection, and development of cable repair or replacement concepts and recommendations, as appropriate, including life cycle cost analyses. He participated in the structural inspection and supervised the rope access inspection team			
11/19 – 05/21	Load Rating of Fourteen Complex Bridges. Statewide Louisiana LADOTD. Modjeski and Masters, Inc. performed bridge inspection, analysis and load rating, sampling/instrumentation and non-destructive testing (as needed), and plan production (as needed) for 14 complex bridges. The bridge types include swing spans, bascule spans, truss spans and curved steel spans. For the analysis and load rating task, M&M is generated a system structural model and performing an analysis of each bridge to determine dead and live load forces in the members. For the bridge superstructures, AASHTOWare BrR software was used. All load rating analysis will follow current AASHTO Manual for Bridge Evaluation, LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Moore assisted in the management of the project and provided guidance to the rating team. He performed structural analysis, evaluation, and QC.			
07/19 – 05/21	Load Rating of 354 Off System Bridges. Statewide Louisiana LADOTD. Modjeski and Masters, Inc. is performing plan and document retrieval, bridge inspection (as needed), analysis and load rating, sampling/instrumentation and non-destructive testing (as needed), and plan production (as needed) for 354 off system bridges including prestressed concrete, reinforced concrete and steel plate girder bridges. For the analysis and load rating task, M&M is generating a system structural model and performing an analysis of each bridge to determine			

	dead and live load forces in the members. For the bridge superstructures, AASHTOWare BrR software is being used. For the complex bridges, a three-dimensional structural model is needed. All load rating analysis will follow current AASHTO Manual for Bridge Evaluation, LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Moore assisted in the management of the project and provided guidance to the rating team. Mr. Moore performed structural analysis, evaluation, and quality control.
11/18 – Ongoing	Hale Boggs Bridge - Latent Defects Review. Luling, Louisiana LADOTD. Mr. Moore serves as an Inspection Team Leader for this investigation of latent defects in the Hale Boggs Bridge Stay Cable system. Specific tasks includes review and evaluation of existing project documentation, performance of an on-site investigation of the stay cables and anchorages and developing a report of the findings and associated recommendations.
10/17 – 08/18	H.009859.5: Nineteen Complex Bridge Load Rating and Evaluation. Louisiana LADOTD. Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, mainly movable bridges. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Moore assisted in the management of the project and provided guidance to the rating team. Mr. Moore performed structural analysis, evaluation, and quality control. Mr. Moore also participated in several of the bridge inspections
02/16 – 10/17	H.009859.5: Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD. Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which follow current AASHTO Manual for Bridge Evaluation, the LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation Manual. Mr. Moore assisted in the management of the project and provided guidance to the rating team, performed structural analysis, evaluation, and quality control, and participated in the bridge inspections.
09/14 – 12/16	H.009859.5 (A): Rating and Posting of On-System State Bridges. Louisiana LADOTD. M&M performed load rating analyses for 110 existing bridge structures using the Load and Resistance Factor Rating Method. Elements to be rated include superstructure and substructure components. Provisions in the AASHTO Manual for Bridge Evaluation as well as LADOTD Policies and Guidelines for Bridge Rating and Evaluation were followed. Mr. Moore participated in the load rating of the bridges and performed structural analysis, evaluation, and quality control.
04/13 – 02/14	Crescent City Connection Bridge No. 1. New Orleans, Louisiana LADOTD. This Task Order consists of inspection and LRFR load rating for the Greater New Orleans Bridge No. 1 – a complex steel cantilever through truss bridge. The rating is to include the superstructure, selected substructure elements and piers. Mr. Moore developed and carried out photogrammetric methods to verify gusset plate geometry as part of the gusset plate evaluation. Mr. Moore also led the technical access inspection team.
10/08 – Ongoing	Huey P. Long Bridge Inspection. New Orleans, Louisiana Public Belt Railroad. The Huey P. Long Bridge is a steel cantilever through-truss railroad and highway bridge across the Mississippi River, with a main bridge crossing of 3,525 feet and several miles of steel plate girder approaches. The main bridge features four deck truss spans, two anchor spans of 529 feet and 532 feet, two cantilever spans of 144 feet, a simple span of 531 feet, and a suspended span of 503 feet. Mr. Moore has been a member of the TA inspection team since 2008. During the 2012 and 2013 inspections, Mr. Moore served as team leader. Since 2013, he has supervised the technical access inspection team.
11/13 – 02/14	Gramercy Mississippi River Bridge Inspection. Gramercy, Louisiana LADOTD. Mr. Moore was an inspection team member, load capacity rating team member, and supervised the technical access inspection team. M&M performed the inspection on selected areas of the main 3,101-foot cantilevered trusses. M&M also performed a coating inspection and evaluation of the entire main span of the structure. Technical access was used to assist in the inspection of the top 83 feet of the structure.

Firm employed by.



Name	Preston L. Wierzba, PE		Years of relevant experience with this employer	6
Title	Senior Engineer & Field Inspector		Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization			BS, 2014, Civil Engineering	
Active registration number / state / expiration date			PE. 44658, LA, 09/30/2026	
Year registered	2020	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Bridge Inspection Services	
Experience dates	Experience and qualifications relevant to the proposed contract			
	Mr. Wierzba joined M&M in 2019 and is a professional civil engineer in the Field Services Section. His experience includes highway and railroad fixed and movable bridge inspection and construction monitoring. His certifications include: NBIS 130055, 130053 (under new SNBI rules), and 130078, Level II Liquid Penetrant and Magnetic Particle Inspection, and he is ATSSA TCT and TCS certified.			
09/22 – 02/24	Mississippi Office of State Aid Road Construction Bridge Inspection and Related Services. Statewide, MS OSARC. Modjeski and Masters is the prime consultant to provide routine and fracture critical inspection and load rating services to MS-OSARC as part of a multi-year IDIQ project. M&M has completed over 100 bridge inspections and 15 load ratings for OSARC, utilizing various access methods including technical and rope access methods and UAV, and utilizes AASHTOWare to rate bridges. Mr. Wierzba is an assistant Project Manager and an Inspector team leader for this project.			
04/20 – 04/21	St. Claude Strauss Trunnion Bascule Rehabilitation. New Orleans, Louisiana Port Of New Orleans. This project includes mechanical and structural rehabilitation of the St. Claude Avenue Bridge over the IH-NC in New Orleans, LA. M&M is preparing bid documents and providing construction monitoring and inspection services for the repair of the 1st Link Joints, the Counterweight Links, and the Main Trunnions of the St. Claude Avenue Bridge. Mr. Wierzba serves as the lead engineer for this project, including performing construction monitoring services.			
08/19 – 3/20, 08/21 – Ongoing	Huey P. Long Bridge Inspection. New Orleans, Louisiana New Orleans Public Belt Railroad. The Huey P. Long Bridge is a steel cantilever through-truss railroad and highway bridge across the Mississippi River, with a main bridge crossing of 3,525 feet and several miles of steel plate girder approaches. The main bridge features four deck truss spans, two anchor spans of 529 feet and 532 feet, two cantilever spans of 144 feet, a simple span of 531 feet, and a suspended span of 503 feet. Mr. Wierzba was part of the inspection team for the railroad portion of the project.			
07/19 – Ongoing	NOGC Annual Bridge Inspections. Systemwide – New Orleans, LA New Orleans Gulf Coast Railway. Modjeski and Masters is providing an annual inspection on each of the eight NOGC bridges. Services include general inspection of all eight (8) bridges' structural elements, cursory inspection of bridge protection systems, and a cursory inspection of the electrical and mechanical systems of the two (2) movable bridges. The inspections were from abutment to abutment above the waterline. The movable bridges will also be inspected from top and bottom chords, tower tops, and/or from machinery levels as appropriate to vertical lift or bascule bridges. The inspections will include taking measurements of metalwork losses that may affect the load carrying capacity of the bridge. Mr. Wierzba was part of the inspection team for this project.			

05/19 – 01/20	Bonnet Carre Trestle Bridge Replacement- Construction Engineering and Inspection. Laplace, Louisiana Canadian National Railway The existing bridge was one of three railroad crossings and a highway crossing that were built in 1934 to accommodate the construction of the Bonnet Carre Spillway. The trestle is 11,753 feet long and was opened to rail traffic in 1934. The superstructure is ballast deck timber trestle with the exception of 13 concrete fire breaks, five (5) concrete DVB spans, one (1) steel beam span and five (5) steel TPG spans. The replacement structure was designed on an offset alignment for an overall new length of 11,711' with a horizontal offset of approximately 50' east, with an exception near each end of the bridge where the alignment will transition back close to the existing track in order to utilize the old approach embankments. The new construction is precast concrete design with the superstructure composed of PPC DVB spans and the substructure consists of 1,139 24" square precast prestressed concrete piles supporting two (2) precast abutment caps with precast backwalls and 299 precast pier caps for 3, 4 and 6-pile piers. Modjeski and Masters provided professional CE&I services for the bridge replacement. These services included providing an on-site resident engineer with responsibility for daily construction inspection. Other specialized personnel was provided as needed to manage, inspect, test and otherwise oversee tasks involved with this project. Mr. Wierzba assisted with the construction engineering and inspection services.
04/20 – 09/20	I-20 Mississippi River Bridge Rehabilitation. Vicksburg, MS LADOTD. M&M provided plans and specifications for structural repairs and electrical system rehab and upgrades for the I-20 Mississippi River Bridge near Vicksburg, MS. Rehabilitation of the existing electrical systems included roadway lighting, navigation lighting, and low-voltage systems including monitoring, MDOT, river gage monitoring. Support tasks to include review of submittals and RFIs, and appropriate site visits. Mr. Wierzba assisted with the construction related engineering support services.
10/19 – 02/20, 08/21 – Ongoing	IH-NC Movable Bridge Inspections. New Orleans, Louisiana Port of New Orleans. (This project included the inspection of four bridges owned by the Port of New Orleans over multiple years, and includes three Strauss-Trunnion bascule bridges and one vertical lift bridge, carrying highway and railway traffic across the IH-NC in New Orleans, LA. These routine and fracture critical inspections included a 100% hands-on visual inspection of all structural, electrical and mechanical elements above the water line, including fatigue-sensitive and fracture-critical members, comprising the bridges and approaches. This project also involved the lead capacity rating and UT pin inspection of several bridges. Mr. Wierzba served as inspection team member for this project.
06/19 – 01/20 12/20 – 01/21	Sunshine Bridge Emergency Inspection and Repairs. Donaldsonville, LA LADOTD. In 2018, a barge mounted crane was traveling upstream in the western most channel of the river. The crane's height exceeded the vertical clearance of the span, and the back-stay of the crane impacted the downstream bottom chord of the truss. The impact caused significant damage to a bottom chord member, tearing off the bottom plate of the box member and inducing severe out of plane distortion. The member in question was a primary load path compression member, designed to carry 1,700 kips of dead load. LADOTD closed the bridge immediately and began the task of investigation and repair. Modjeski and Masters, Inc. (M&M) was selected as the lead consultant for bridge repairs. After closing the bridge directly after the incident, LADOTD engaged M&M to perform an emergency hands-on inspection using technical rope access techniques. The inspection team documented the primary damaged member as well as a host of other damaged elements, including bottom laterals, stringer bearings, and gusset plates. Technical rope access was critical in locating and documenting all damaged bridge elements. M&M also provided construction engineering and inspection of the repair efforts. Mr. Wierzba assisted with the construction engineering and inspection services.

Firm employed by.



Name	James W.H. Costigan, PE	Years of relevant experience with this employer	10
Title	Senior Engineer & Field Inspector	Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization	BS, 2015, Civil Engineering		
Active registration number / state / expiration date	PE. 44328, LA, 09/30/2026		
Year registered	2020	Discipline	Civil
Contract role(s) / brief description of responsibilities	Bridge Inspection Services		

Experience dates	Experience and qualifications relevant to the proposed contract
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Mr. Costigan joined M&M in 2015 and has worked on bridges in 20 states, four countries, and three continents and has worked on 15 bridges spanning the Mississippi River. His experience includes serving as a team leader for major river crossing and movable bridge inspection, rehabilitation design and construction engineering and inspection. His certifications include: NBIS 130055, 130053, and 130078, Level II Liquid Penetrant and Magnetic Particle Inspection; SPRAT Level II Certified, ATSSA TCT and TCS, and FAA Part 107 (UAV/Drone) certification.

01/24 – 07/24

Mississippi Office of State Aid Road Construction Bridge Inspection and Related Services. Statewide, MS | OSARC. Modjeski and Masters is the prime consultant to provide routine and fracture critical inspection and load rating services to MS-OSARC as part of a multi-year IDIQ project. M&M has completed over 100 bridge inspections and 15 load ratings for OSARC, utilizing various access methods including technical and rope access methods and UAV, and utilizes AASHTOWare to rate bridges. Mr. Costigan was a team leader for the QA inspections on this Contract.

12/19 – 12/20

Alaska Bridges Inspections – Statewide, Alaska | Alaska Railroad. Modjeski and Masters performed the in-depth inspection, pin ultrasonic testing, structural capacity assessment and rating, pin and gusset evaluations and fatigue analysis for three bridges in Alaska. The Hurricane Gulch Bridge is a 910' ft deck arch bridge over the Hurricane Creek carrying a single railroad track. The main arch span is 388 feet long and flanking deck truss is 120'. The approach includes DPG spans on steel towers. The Mears Bridge is a 1300 ft bridge over the Tanana River carrying a single railroad track. The main through truss span is 700 feet long and the approach includes 118' deck truss and several DPG span on steel towers. The Gold Creek Bridge is a 704 ft bridge over the Susitna River carrying a single railroad track. The main through truss span is 504 feet long and the approach includes several TPG span on concrete piers. Mr. Costigan assisted in the inspection of two large truss railroad bridges and was the team leader for a third railroad truss inspection. These inspections included technical access work, standard climbing, eyeball load sharing verification, and UAV drone flights. Mr. Costigan was responsible for authoring the 30 day & 90 day inspection reports for these bridges.

10/18 – 03/19

LA Route 70 Sunshine Bridge Collision – Emergency Response. Donaldsville, Louisiana | LADOTD. On October 12, 2018, a barge mounted crane was traveling upstream in the western most channel of the river. There was insufficient clearance as the barge passed underneath the bridge, and the back-stay of the crane impacted the downstream bottom chord of the truss. The impact caused significant damage to a bottom chord member, tearing off the bottom plate of the box member and inducing severe out of plane distortion. The member in question was a primary load path compression member, designed to carry 1,700 kips of dead load. LADOTD closed the bridge to traffic directly after the incident and engaged Modjeski and Masters to perform an emergency hands-on inspection using technical rope access techniques. With the damage documented, work on repair concepts began. Mr. Costigan was instrumental in the inspection of the damage as well as the construction engineering and inspection of the repair efforts.

02/17 – 06/17	Nineteen Complex Bridge Load Rating and Evaluation. Louisiana LADOTD. Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, mainly steel vertical lifts. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, LADOTD Policies and Guidelines for Bridge Rating and Evaluation, and LADOTD Bridge Design and Evaluation Manual. Mr. Costigan was responsible for inspection services and was an Inspection Team Leader
03/16 – 07/16	Ten Truss Bridges Load Rating and Evaluation. Louisiana LADOTD. Modjeski and Masters, Inc. performed plan and document retrieval, bridge inspection and analysis, and load and resistance factor rating of complex bridge structures, including large cantilever trusses, vertical lifts and swing spans. Gusset, truss, floorsystem and substructure components were rated. Bridge inspections focused on gusset plates and existing member conditions for rating. AASHTOWare BrR was used for the ratings, which followed the AASHTO Manual for Bridge Evaluation, the LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications. Mr. Costigan was responsible for special inspections and inspection documentation.
11/15 – 2/16 10/17 – 4/18	Huey P. Long Inspection. Jefferson Parish, Louisiana Public Belt Railroad. The Huey P. Long Bridge is a steel cantilever through-truss railroad and highway bridge across the Mississippi River, with a main bridge crossing of 3,525 feet and several miles of steel plate girder approaches. The main bridge features four deck truss spans, two anchor spans of 529 feet and 532 feet, two cantilever spans of 144 feet, a simple span of 531 feet, and a suspended span of 503 feet. Mr. Costigan served as an inspector and serves as a Lead Bridge Inspector for this bridge.
05/16 – 07/16	US 11 Bridge over Lake Pontchartrain, New Orleans, Louisiana LADOTD. Within the US 11 Bridge are two double-leaf bascule spans (North Draw and South Draw). There was considerable damage to the bridge as a result of Hurricane Katrina. M&M was retained to determine the improvement needs structural, electrical and mechanical to extend the life by 20-30 years and to prepare rehabilitation plans. Mr. Costigan was responsible for bridge inspection and repair/replacement design and documentation.
02/23 – 08/23	St. Claude Strauss Trunnion Bascule Rehabilitation. New Orleans, Louisiana Port of New Orleans. This project includes mechanical and structural rehabilitation of the St. Claude Avenue Bridge. M&M prepared bid documents and providing construction monitoring and inspection services for the repair of the 2nd Link Pin of the St. Claude Avenue Bridge. Mr. Costigan was the Inspector for the St. Claude Bascule Bridge 2 nd Link Joint Rehabilitation project, serving as the main point of contact between the Owner, the Contractor, and the Engineer throughout construction. Mr. Costigan oversaw construction operations, performed hands-on inspection, assisted in submittal reviews, coordinated RFI Responses, attended progress meetings, and processed project documentation including Contractor pay applications, change orders, and close-out documents.
11/16 – 09/18	Seabrook Bridge Floor System Replacement & Link Pin Joints Emergency. New Orleans, Louisiana Port of New Orleans. M&M prepared the plans and specifications to replace the railroad floor system between the trusses of the Seabrook Railroad Bridge as well as emergency repair plans for the 1 st and 2 nd link pins. M&M also developed the sequence of construction to minimize the impacts to the rail and marine traffic as well as maintain the span balance throughout construction. Mr. Costigan was the Resident Structural Engineer. During this project, Mr. Costigan monitored and oversaw construction, assisted in submittal reviews, wrote RFI Responses, attended progress meetings, wrote and reviewed punch lists, lead the project final walkdown, and reviewed project close-out documents.
10/16-Ongoing	IH-NC Movable Bridge Inspections. New Orleans, Louisiana Port of New Orleans. This project included the inspection of four bridges owned by the Port of New Orleans over multiple years, and includes three Strauss-Trunnion bascule bridges and one vertical lift bridge, carrying highway and railway traffic across the IH-NC. These routine and fracture critical inspections included a 100% hands-on visual inspection of all structural, electrical and mechanical elements above the water line, including fatigue-sensitive and fracture-critical members, comprising the bridges and approaches. This project also involved the lead capacity rating and UT pin inspection of several bridges. Mr. Costigan served as an inspection team leader and a bridge inspection team member for this project.

Firm employed by.  **moffatt & nichol**

Name	Jeffrey Gazarek, COSS, COSM	Years of relevant experience with this employer	11
Title	Safety Manager; NBIS Team Leader; ADCI Dive Supervisor	Years of relevant experience with other employer(s)	10

Degree(s) / Years / Specialization	ADCI / 2005 / Divers Institute of Technology Certifications: Bridge Inspection Refresher Training; Safety Inspection of In-Service Bridges; Underwater Bridge Inspection; Certified Weld Inspector; NSTM Inspection Techniques for Steel Bridges; ATSSA TCS Work Zone Safety; Society of Professional Rope Access Technicians; Certified Occupational Safety Specialist and Manager; OSHA MEWP Trainer; ADCI Dive Supervisor
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Active registration number / state / expiration date	N/A
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Year registered	N/A	Discipline	N/A
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Contract role(s) / brief description of responsibilities	Bridge Design & Load Rating Services / Bridge Inspection Services
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Experience dates	Experience and qualifications relevant to the proposed contract
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	Mr. Gazarek has over 20 years' experience as a diver, dive supervisor, engineering technician, equipment manager, and fleet manager. He is a member of the American Society of Safety Professionals and represents M&N on the United States Gulf of America Diver Safety Work Group, where he previously served as Chairman of the Caviblaster Safety Committee. He has led a diverse range of infrastructure projects nationwide, working alongside highly skilled teams to safely deliver complex and demanding work. He is actively engaged with his teams, focusing on problem prevention and solution development throughout project execution. He has extensive expertise in submerged structural inspections, both as a diver and dive supervisor, across a wide variety of infrastructure, including bridges, wharves, steel and concrete bulkheads, ocean piers, fender systems, and offshore structures. As a professional diver, he regularly participates in underwater investigations and has conducted comprehensive assessments of timber, steel, and concrete deterioration in marine environments. Additionally, in 2026, he was named the new Chairman of the ADCI/Safety/Technical Committee.
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07/21 – Ongoing	Underwater Bridge Inspections, LADOTD, Statewide, LA. Site Safety Specialist and Senior Dive Supervisor. Responsible for maintaining the diving and inspection equipment, planning and preparing all necessary tools and information, providing field notes and observations, and writing reports. Provided routine maintenance of the inspection equipment and proper record keeping, uses the manufacturer's recommendations to maintain high standards for our inspections, and making sure that the industry standards are met before anything is used. Identifies the inspection locations for planning and preparation, reviews previous inspection data, identifies the proper lodging and safety accommodations, confirms tools are available for use, and confirms that safety concerns are addressed. Provided field notes and observations of the field data collection process, using a diver or non-diving inspector, and taking photos, video, or using acoustic imaging to collect data.
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01/25 – Ongoing	Progressive Design Build Program Management, Orange County Sanitation, CA. Client Advisor/Representative. Supported and advised the client throughout the full project lifecycle for a \$64 million progressive design-build contract, from RFP development through execution. Contributed to scope definition, safety planning, and technical coordination across all phases. During RFP development, conducted in-depth research on ASCE MOP 130 and ASTM standards to establish
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	comprehensive inspection requirements for the outfall systems, as no dedicated standards existed. Defined inspection methodologies, coring strategies, and compliance protocols tailored to the project. Developed a site-specific Health & Safety Plan for the client's contractor oversight team. Collaborated closely with the client, project manager, and construction teams to deliver technical guidance, evaluate coring options, and standardize daily and weekly reporting formats to ensure consistent project documentation. Served as the client representative for contractor oversight of both the short (1.5-mile) and long (5-mile) outfall systems in depths up to 200'. Monitored dive operations in real time, verified compliance with contract specifications and safety requirements, and delivered daily reports to the client project manager. Created a detailed project scope breakdown by percentage complete, validated quantities against contract documents, and supported scheduling and cost estimating efforts through accurate quantity development for client-contractor negotiations. Developed client-side defect tracking and repair recommendations aligned with construction sequencing. Reviewed contractor inspection reports for rehabilitation design, created an internal client risk register, and supported the contractor in developing the project risk register. Coordinated closely with project leadership to manage risks and maintain alignment across teams.
09/19 – 03/20	Underwater Bridge Inspection of Large River Crossings, LADOTD, Statewide, LA. NBIS Inspector. Responsible for the five-year retainer contract to perform Level I, II, and III underwater bridge inspections in accordance with NBIS and AASHTO Manual for Bridge Element Inspection. Completed underwater inspection fieldwork, inspection reports, and quality control reviews. Underwater acoustic imaging techniques were used to locate structural deficiencies, identify potential undermining, observe the limits of scour, and document the limits of riprap installations.
10/20 – 12/23	IDIQ Contract for In-Depth Bridge Inspections, LADOTD, Statewide, LA. NBIS Inspector. Responsible for routine bridge inspections throughout Louisiana, including 100% visual inspections in accordance with NBIS requirements. Performed a routine bridge inspection of the cable-stayed Audubon Bridge above the deck utilizing rope access techniques in St. Francisville. Responsibilities included preparing SPRAT and climbing gear for inspection, coordinating with the other climbing teams, performing inspection on each cable for cable-stay bridge using rope access and performing inspection on the cable-stay towers, relaying defects and photographing defects found.
04/24 – 07/25	2023 IDIQ Underwater Bridge Inspections, MDOT, Statewide, MS. Safety Manager. Responsible for the review and approval of dive and field safety plans for specialty access projects, both above- and below-water. Responsibilities included oversight of diving operations, rope access, fall protection, mobile elevated work platforms, and confined space safety.

Firm employed by. FORTE & TABLADA			Meets MPR No. 4
Name	Joffrey E. Easley, P.E.		Years of relevant experience with this employer
Title	Group Leader – Transportation-Bridge		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		BSCE / 2000 / Civil Engineering MSCE / 2003 / Civil Engineering	
Active registration number / state / expiration date		PE.0031542 / LA / Exp. 03/31/2027	
Year registered	2004	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities		Bridge Inspection Services	
Experience dates	Experience and qualifications relevant to the proposed contract		
	Mr. Easley is a professional engineer licensed in Louisiana with over 20 years of design experience. Throughout his career, he has been responsible for the design and development of construction documents for many different bridge types; including PPC girder, steel girder (included rolled shapes and plate girders), and slab span bridges. He has also load rated numerous bridges using the LRFR methodology; ranging from concrete slab span structures on local routes to urban corridor bridges several thousand feet in length on interstate routes. He has also rated many different types of movable bridges, including lift spans, swing spans, and bascule spans. He is also a certified bridge inspector, having completed the two-week NHI course entitled "Safety Inspection of In-Service Bridges". He has been the team leader for the inspection of numerous bridges across Louisiana, from small bridges inspected from an aluminum bateau to major river crossings requiring snoopers or man lifts to access the structural components.		
02/25 – Ongoing	Linwood Avenue Bridge Rehabilitation, LADOTD, Shreveport, LA. <i>Project Manager and Certified Bridge Inspection</i> for a rehabilitation and strengthening project on a 75-year old steel bridge over multiple CPKC and UPRR railroad tracks in Shreveport, LA. Determined locations to be rehabilitated/strengthened, developed Conceptual Repair Plans, and coordinating with City of Shreveport, CPKC, and UPRR regarding R/R requirements. Inspection to verify current conditions as compared to findings from previous inspections by Forte and Tablada are planned for the summer.		
03/23 – 12/24	E Lewis St Bridge Upgrades, LADOTD, Lafayette, LA. <i>Project Manager and Certified Bridge Inspector</i> for a multi-phase project involving the inspection, load rating, and development of rehabilitation plans for a steel girder and slab span bridge that serves the University of Louisiana at Lafayette. Load rating utilized condition identified during the inspection, material testing, and a 3-D laser scan to determine appropriate material properties to consider for the load rating, followed by a 3D FEM load rating analysis, which resulted in the removal of a 3-ton posting requirement. To improve the long-term performance of the bridge, the bridge was subsequently rehabilitated, which included strengthening of the steel girders using post-tensioned cables, concrete spall and crack repairs of the concrete decks and bents, a urethane-epoxy overlay of the bridge deck, and sidewalk repairs.		
03/18 – 02/19	LADOTD Retainer Contract for Off-System Complex Bridge Load Rating, Statewide, LA. <i>Task Order 1 – Project Manager, Load Rating Engineer, and Team Leader</i> for a Task Order for the inspection and load rating of 12 complex off-system bridges, including lift spans, swing spans, bascule spans, ferry landings, and steel truss bridges. Inspections documented existing member conditions and loss of section for use in the load rating. Also, for bridges without construction plans, Load Rating Plans were developed using field measurements and 3-D laser scan data. Inspection Reports outlining existing conditions and		

	Load Rating Reports in accordance with the LADOTD Bridge Design and Evaluation Manual (BDEM) were provided for all bridges.
04/19 – 05/22	LADOTD Retainer Contract for Off-System Bridge Load Rating, Statewide, LA. <i>Linwood Avenue Bridge – Project Manager, Load Rating Engineer, and Certified Bridge Inspection</i> for the inspection and load rating of the Linwood Avenue bridge over multiple railroad tracks in Shreveport, LA. The bridge is near the I-49 / I-20 interchange and is composed of steel girders, steel bent caps, and steel column assemblies. Because existing plans were not available, 3-D laser scanning was utilized to capture complex geometry and member sizes that were then utilized in the load rating and in the development of load rating plans. The inspection also included the use of an ultrasonic thickness gage to verify member thickness, as well as detailed measurements to determine section loss of the steel members.
02/22 – 12/23	Livingston Parish Contract for Bridge Engineering Services, Livingston Parish, LA. Under a General Services Agreement, served as <i>Project Manager and Certified Bridge Inspector</i> for numerous off-system bridges. Task Orders 1, 2, and 3 are for the inspection, condition assessment, load rating, and submittal of a Bridge Evaluation Report for several single-span timber bridges. Task Order 4 is to provide consultation related to the selection of bridges to be replaced under the IJA off-system bridge replacement program. Task Order 5 is for the load rating of several bridges that require a re-rating following a Condition Rating drop. Task Order 6 is for the inspection and development of repair details for a slab span bridge to address decay of the timber bent caps and piles.
05/16 – 10/19	LADOTD Retainer Contract for Complex Bridge Load Rating, Statewide, LA. <i>Project Manager, Load Rating Engineer, and Certified Bridge Inspection</i> for the load rating of the US 90 bridge over the West Middle River near the LA/MS border. This bridge was built in 1933 and includes reinforced concrete approach spans, as well as Warren pony through-truss steel spans.
01/21 – 09/21	Retainer for Bridge Preservation – US90: Westbank Expressway Rehab, Jefferson Parish, LA. <i>Project Manager</i> to develop plans for the rehabilitation of the nearly 6-mile-long Westbank Expressway in Jefferson Parish, LA. Project was to address cracking throughout the bridge at the bearing of the precast-prestressed concrete tub girders to the inverted-T concrete bent caps. Scope of work included cleaning of the bridge at all bearings, identification of crack size using specialty imagery capture techniques developed in-house, determination of crack repair procedures for various crack sizes, and development of construction plans for the rehabilitation.
08/19 – 02/20	LADOTD Retainer for In-Depth Bridge Inspections, Simmesport, LA. <i>Project Manager and Team Leader.</i> Responsible for the inspection and documentation of deficiencies of the approach spans, consisting of rolled steel and plate girder spans supported by column bents, of the LA 1 bridge over the Atchafalaya River.
10/15 – 04/19	LADOTD Retainer Contract for Bridge Preservation – Atchafalaya Floodway, Statewide, LA. <i>Project Manager, Design Engineer, and Team Leader.</i> Responsible for providing engineering services for the rehabilitation of multiple bridges along I-10 between Baton Rouge and Lafayette. Bridge types included PPC girder spans, steel plate girder spans, steel rolled girder spans with steel grid deck, and slab spans. Scope of work included performing a detailed inspection, documenting deficiencies, and preparing rehabilitation plans for all bridges. Rehabilitation included heat straightening of steel girders impacted by over-height vehicles, concrete railing repairs, painting, concrete spall repairs, and joint repairs.

Firm employed by. **FORTE & TABLADA****Meets MPR No. 4**

Name	Levi Yantis, PE	Years of relevant experience with this employer	10
Title	Bridge Engineer	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization	BS / 2013 / Civil Engineering		
Active registration number / state / expiration date	PE.0042390 / LA / Exp. 09/30/2026		
Year registered	2018	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities	Bridge Inspection Services		
Experience dates	Experience and qualifications relevant to the proposed contract		



Mr. Yantis has 12 years of experience in bridge design, load rating, and bridge inspection. He is experienced in design, load rating, and inspecting structure types ranging from concrete slab spans to complex steel spans, along with unique structures including movable bridges and railroad flatcar bridge spans. He is well versed in bridge and structural software, including AASHTOWare BrR, LEAP, Midas Civil, and STAAD.

01/20 – 10/21	Retainer for Complex In-Depth Bridge Inspections, LADOTD, Statewide, LA. <i>Team Leader</i> for the structural, mechanical and electrical in-depth inspections for multiple movable bridges. Bridge types included vertical lift span bridges and steel swing bridges (through girders and through trusses). Also served as the task manager for preparing the in-depth inspection reports.
03/18 – 04/22	Retainer Contract for Off-System Bridge Load Rating – Task Order 1, LADOTD, Statewide, LA. <i>Project engineer and bridge inspector</i> for 12 complex moveable bridge inspections and load ratings throughout the state. The bridge types included a single leaf bascule span, a vertical lift truss span, several steel vertical lift spans, multiple pontoon bridges, a steel plate girder swing bridge, a small steel truss/cable swing span, and a non-moveable steel truss.
02/25 – Ongoing	Linwood Avenue Bridge Rehabilitation, LADOTD, Shreveport, LA. <i>Project Engineer</i> for the rehabilitation of the bridge on Linwood Ave. over multiple railroads. Produced cost estimates for different rehabilitation options, as well as a replacement option. Assisted in the Conceptual Repair Plans provided to CPKC and UPRR.
10/24 – 02/25	Beco Road over Babin Canal Bridge Rehab, LADOTD, Ascension Parish, LA. <i>Team leader</i> during a site investigation to observe existing conditions and determine needed rehabilitation details for failing bulkheads and roadway approaches. Served as the design engineer for the sheet pile for abutment replacements.
02/22 – Ongoing	Ascension Parish Bridge Load Ratings of Parish Owned Bridges, Ascension Parish, LA. <i>Team Leader</i> on the bridge inspections and as the load rating engineer for several parish owned bridges. Inspections are performed on the bridges prior to load rating to verify accurate analysis of bridge members. As deficiencies are discovered that negatively affect the load rating results, repair details are developed. After the bridge repairs are completed, the load rating is then updated. Final inspections are made to observe and document the quality of repairs.
04/23 – 04/25	E Lewis Street Bridge Evaluation & Preservation, LADOTD, Lafayette, LA. <i>Design and Load Rating Engineer</i> for a load rating of an existing steel girder span that was load posted at 3T under a state load rating contract. Material testing was completed to obtain specific material properties, used with previous load testing data, the need for load posting was determined to no longer be necessary. The bridge then went through a bridge preservation project and performed the girder strengthening

	calculations that were completed to extend the life of the bridge. An as-designed load rating was also performed after the rehabilitation project was completed.
04/20 – 06/20	Retainer for Complex In-Depth Bridge Inspections (TO2 – US71 Emergency Repairs), LADOTD, Shreveport, LA. <i>Project Engineer</i> on a task order to perform emergency repairs on the US 71 Bridge over the ICG Railroad in Shreveport, LA after the structure was struck due to a train derailment. Led the superstructure design and produced the structural details for the emergency repairs.
01/21 – 05/22	Livingston Parish Bridge Prioritization, Livingston Parish, LA. <i>Team Leader and Load Rating Engineer</i> during a bridge prioritization for all parish owned bridges. The purpose of the prioritization was to recommend the order of rehabilitation and replacement. Bridge inspections were performed and load ratings were completed for the prioritization analysis.
05/25 – Ongoing	Retainer Contract for Load Rating Services – Task Order 10, LADOTD, Statewide, LA. <i>lead load rating engineer.</i> Supervising the load ratings of on-system slab span and girder span bridges throughout the state of Louisiana. Structure types range from concrete slab spans to complex steel girder bridges.
09/22 – Ongoing	Retainer Contract for Load Rating Services – Task Order 6, LADOTD, Statewide, LA. <i>Load Rating Engineer</i> that is leading and supervising the load ratings of on-system girder span bridges throughout the state of Louisiana. Structure types range from prestressed concrete girder spans to continuous steel girder units.
03/23 – 06/23	Port of New Orleans, St. Claude Avenue Bridge Updated Load Rating, New Orleans, LA. <i>Team Leader and Load Rating Engineer</i> for the inspection and load rating of the single bascule span on St. Claude Avenue after significant section loss was found by LADOTD inspection forces. Performed the inspection to verify and quantify section loss measurements noted in the LADOTD inspection report.
09/22 – 04/25	Retainer Contract for Load Rating Services – Task Order 1, LADOTD, Statewide, LA. <i>Load Rating Engineer</i> for the load ratings of on-system slab span bridges throughout the state of Louisiana. Team leader for bridge inspections to collect additional deterioration measurements of bridge components.
11/18 – 12/18, 09/22,10/22	Port of New Orleans, St. Claude Avenue Bridge Permit Load Rating, New Orleans, LA. <i>Load Rating Engineer</i> for permit load ratings for overload vehicles to safely pass the single bascule span on St. Claude Avenue.
03/18 – 04/22	Retainer Contract for Off-System Bridge Load Rating – Task Order 2, LADOTD, Statewide, LA. <i>Load rating and bridge inspection engineer</i> that led and supervised the load ratings of 200 off-system slab span bridges throughout the state of Louisiana. To avoid posting bridges lower than necessary, bridge inspections were done for several bridges that had severe deterioration noted in their inspection reports to collect additional deterioration measurements to accurately determine the bridge member's load carrying capacity.
03/18 – 04/22	Retainer Contract for Off-System Bridge Load Rating – Task Order 5, LADOTD, Statewide, LA. <i>Load Rating Engineer</i> for the load testing and refined load rating analysis of slab span bridges and culverts that previously received low or closed load postings.

Name	Jose L. Rodriguez, PE	Years of relevant experience with this employer	3
Title	Senior Roadway Engineer	Years of relevant experience with other employer(s)	24
Degree(s) / Years / Specialization	BS / 1992 / Civil Engineering, University of New Orleans		
Active registration number / state / expiration date	PE.0030492 / LA / Exp. 03/2027		
Year registered	2003	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Roadway Design		



Mr. Rodriguez has more than 26 years of experience with roles of progressive responsibility as a Civil Engineer performing **roadway design**, bridge design, project management, hydraulic analysis, utility coordination, construction supervision, **cost estimating**, and project implementation for various clients in the states of LA, TX, GA, and NC. He has worked closely with the Louisiana Department of Transportation and Development (LADOTD), City of New Orleans Department of Public Works, New Orleans Sewer and Water Boards, Plaquemines Parish, Jefferson Parish, **St. Bernard Parish**, U.S. Army Corps of Engineers (USACE), and New Orleans Regional Planning Commission. His experience includes a wide range of projects including Stage 0 feasibility and safety studies, safety design, **environmental assessments**, and design projects. He has extensive experience in Inroads, Autodesk Civil 3D, and Leap Bridge for Concrete Bridge Design. Mr. Rodriguez served on the American Concrete Institute Louisiana Board, becoming President of the Louisiana Chapter in 2010.

Experience dates	Experience and qualifications relevant to the proposed contract
02/22 – 04/25	I-10 Calcasieu River Bridge Public Private Partnership (P3), LADOTD, Calcasieu Parish, LA. Senior Roadway Engineer for the I-10 Calcasieu Bridge Replacement P3 project. Coordinated and developed roadway design plans for the Project, ensuring compliance with LADOTD standards. Led the evaluation of geometric designs and horizontal and vertical alignments. Collaborated with multidisciplinary teams to address right-of-way requirements, drainage design, and interchange modifications. Provided technical guidance during the alternatives analysis and contributed and constructability reviews throughout the project lifecycle.
04/21- 04/22	Lee Drive (Highland Road to Perkins) Final Design Study Report, Move East Baton Rouge, East Baton Rouge Parish, LA. Senior Roadway Engineer and Designer. Responsible for coordinating and developing concept drawings to evaluate the geometric feasibility of different roadway alternatives , proposed improvements, and anticipated right-of-way (ROW) needs. Provided technical guidance to help identify green infrastructure opportunities along the project. Also assisted in the implementation of Complete Street regulations for the corridor. During the alternative's selection process, conducted cost estimates to evaluate and select the preferred alternative.
04/23 – 01/25	LA 22 Tchefuncte River Bridge, LADOTD, St. Tammany Parish, LA. Lead Roadway Engineer. Responsible for preliminary roadway and drainage design for a Stage 0 Feasibility Study to develop and evaluate feasible alternatives for the replacement of the LA 22 Tchefuncte River Bridge in Madisonville, LA. The bridge has a high frequency of opening due to marine traffic and low elevation above the river. Arcadis developed several bridge alternatives including fixed and moveable bridge options. Alternatives were evaluated with respect to construction cost, ROW, traffic and safety, and environmental resources. All study methods and results were documented in a Stage 0 Feasibility Report with Preliminary Scope and Budget Checklist and Environmental Checklist.

01/08 – 05/08	I-12 to Bush Corridor Study Phase III, LADOTD, St. Tammany Parish, LA. <i>Roadway Designer</i> . Responsible for evaluating environmental issues and developing design alternatives in accordance with the National Environmental Policy Act for transportation improvements.
05/12 – 12/15	Earhart Boulevard Causeway Interchange, LADOTD, Orleans Parish, LA. <i>Roadway Designer</i> . Responsible for the geometric design and roadway plan preparation for the Earhart Boulevard-Causeway Interchange. The Earhart Boulevard Causeway Interchange purpose was to assist in traffic congestion relief for the east-west flow in traffic for the New Orleans Metro Area. It consisted of the development roadway and bridge ramps for the creation of an elevated signal-controlled interchange. The estimated construction cost for this project was approximately \$59 million. Responsible for the development of all horizontal and vertical alignments and developing all roadway cross sections, drainage design, utility conflict resolution, and cost estimating for the project. Bentley InRoads was used for the development of the roadway plans for this project.
02/10 – 06/11	I-10 from Veterans to Clearview, LADOTD, Jefferson Parish, LA. <i>Roadway Designer</i> . Responsible for roadway plan preparation for widening 1.2 miles of I-10 from three lanes to five lanes in each direction. The project also included bridge work to accommodate the new roadway widening. Also responsible for the alignment and design of concrete sound walls along the corridor. Helped implement an innovative two-sided concrete stamp process for the noise wall precast concrete panels.
07/09 – 07/15	Peters Road Expansion, Phases I, II, and III, LADOTD, Jefferson and Plaquemines Parishes, LA. <i>Roadway Designer</i> . Responsible for the geometric design, plan preparation , and wetland delineation of Peters Road Phases I, II, and III. The projects consisted of a new roadway, elevated crossing over the Intracoastal Waterway, approach roadways to tie Peters Road to Louisiana 23 near Barrier Road. The projects were prepared in coordination with the local parishes, LADOTD, and the USACE.
10/17 – 03/18	Traffic Turn Lanes on Highway LA 3127, Yuhuang Chemical Inc., St. James Parish, LA. <i>Quality Control (QC)</i> . Review for the design of two turn lanes into the Yuhuang Chemical Methanol plant. Provided the owner with construction design services for the duration of the construction phase.
12/15 – 01/16	Magnolia Ridge Levee Project, St. Charles Parish, St. Charles, LA. <i>QC</i> . QC review and plan preparation for the Magnolia Ridge Levee project for St. Charles Parish.
06/04 – 01/11	Causeway Boulevard Interchange Improvements Phase I and II, LADOTD, Jefferson Parish, LA. <i>Roadway Designer</i> . For the project, which consisted of widening Causeway Boulevard elevated structure at Veterans Boulevard and the construction of new at grade and elevated ramps to provide better accesss, improve safety, and ease congestion at this heavily traveled interchange. Responsible for evaluating existing girders, the design of new precast concrete girders, and the roadway plan preparation for this project. Also responsible for evaluating and design of new sewer and water lines for the project, as well as coordinating the removal and replacement of all utilities affected by the new roadways or/and structure foundations.
02/07 – 10/09	John James Audubon Bridge Approach (Design-Build), LADOTD, New Roads, LA. <i>Roadway Designer</i> . Responsible for the geometric horizontal and vertical alignment for five approach bridges to the John James Audubon Cable Stay Bridge. The longest cable-stayed bridge in the Western Hemisphere consisting of a 1,583-foot main span. Also in charge of the QC for all bridge approaches and the design of all precast concrete girders for the project.

Firm employed by. 			Meets MPR No. 8
Name	David Fulks, PE	Years of relevant experience with this employer	18
Title	Principal Roadway Design Engineer	Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization		MS / 2019 / Engineering Management, The George Washington University BS / 1997 / Civil Engineering, Portland State University	
Active registration number / state / expiration date		PE.030151 / LA / Exp. 09/30/2026	
Year registered	2002	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities		Roadway Design	
		Mr. Fulks has more than 30 years of experience in the design of roadways and pedestrian facilities, land developments, flood protection systems, and airports. His experience encompasses the analysis and geometric design of highways, streets, sidewalks, restrictive intersections, roundabouts, and interchanges; site hydrology and hydraulics; and traffic impact analysis. His experience has been applied to a range of projects, from Stage Zero feasibility and safety studies to design and construction plan development. His responsibilities have included preparing engineering designs, reports, plans, and specifications; developing and managing project schedules and cost estimates; and providing construction administration.	
Experience dates		Experience and qualifications relevant to the proposed contract	
09/12 – 09/13		US 165 Connector and Ouachita River Bridge Environmental Impact Statement, Louisiana Department of Transportation and Development (LADOTD), Ouachita Parish, LA. <i>Roadway Design Engineer</i> . Prepared roadway and bridge general plan designs, line and grade report development, and cost estimates for a new five-mile elevated highway through Chauvin Swamp north of Monroe, LA. An in-town corridor was also developed, which entailed upgrading Louisville Avenue and Hudson Lane in Monroe, the Lea Joyner Bridge over the Ouachita River, and Stella Street in West Monroe to function as a one-way couplet. Early coordination with Delta Southern Railroad was included.	
09/09 – 03/12		Kansas Lane – Garrett Road Connector Environmental Assessment/Interchange Modification Request, LADOTD, Ouachita Parish, LA. <i>Lead Engineer</i> . Performed geometry and roadway design of the new Kansas City Southern Railroad overpass and connector between Kansas Lane and Garrett Road, including interstate interchange modifications to include two-lane roundabouts at ramp intersections, and three two-lane roundabouts along the corridor outside of the interchange. Improvements to the pedestrian and bicycle facilities were included in accordance with the LADOTD Complete Streets Policy.	
08/11 – 09/13		Chef Menteur Bridge and Approaches Replacement Environmental Assessment and Line and Grade Study, LADOTD, Orleans Parish, LA. <i>Lead Roadway and Bridge Geometrics and Cost Engineer</i> . Prepared proposed geometric configurations of a bridge replacement at Chef Menteur Pass. Investigated four alignments, as well as both low-level moveable and high-level fixed span bridge configurations. Performed detailed geometric layouts of the mainline highway, bridge, and adjacent roadways to mitigate impacts to environmentally sensitive resources and local residential, commercial, and historical interests.	
01/14 – 06/23		Pete's Highway Interchange Alternative and Environmental Assessment, LADOTD, Livingston Parish, LA. <i>Lead Roadway and Bridge Geometrics and Cost Engineer</i> . Completed an Environmental Assessment and traffic engineering services related to improving congestion and operations along Range Avenue in the vicinity of the I-12 interchange. Design alternatives included two split-diamond interchange options with roundabout, partial clover leaves, and collector-distributor road components at both Range Avenue and the next existing eastern overpass at Pete's Highway (LA 16), and a diverging diamond interchange	

	alternative at Range Avenue. <i>Developed roadway geometry, line and grade, construction sequencing strategies, and construction cost estimates.</i>
04/13 – 07/14	US 11 Environmental Assessment, Bridge Replacement, and Roadway Improvements, LADOTD, St. Tammany Parish, LA. <i>Lead Roadway Engineer.</i> Performed <i>geometry and roadway design, line and grade study development, and cost estimates</i> for the replacement of an historic railroad overpass bridge and the upgrading of an existing two-lane rural highway to a four-lane divided highway with access control. Early coordination with Norfolk Southern Railroad was included.
05/14 – 05/15	Joe Sevario / Roddy Road Roundabouts, LADOTD, Ascension Parish, LA. <i>Task Manager and Lead Roadway Engineer.</i> Performed <i>geometric and roadway design and developed cost estimates</i> for the replacement of ten existing stop-controlled intersections with single-lane roundabouts.
07/15 – 06/17	US 190B at Jefferson Ave Roundabout, LADOTD, St. Tammany Parish, LA. <i>Roadway Engineer.</i> Performed <i>geometric and roadway design, prepared preliminary plans, and developed cost estimates</i> for replacing an existing four-way signalized intersection with a single-lane elliptical roundabout.
12/13 – 06/15	LA 3235 Corridor Safety Feasibility Study, LADOTD, Lafourche Parish, LA. <i>Lead Roadway Geometrics and Cost Engineer.</i> Designed geometric layout of safety improvements, including access management, restrictive intersections, and added turn lanes. Developed <i>construction cost estimates for proposed improvements to assess feasibility of proposed alternatives.</i>
11/14 – 10/15	LA 44 and Loosemore Road Roundabout, LADOTD, Ascension Parish, LA. <i>Deputy Project Manager and Lead Roadway Engineer.</i> Performed <i>geometric and roadway design, conducted preliminary subsurface utility investigation, and developed cost estimates</i> for the replacement of an existing two-way stop-controlled intersection with either a single-lane roundabout or two single-lane roundabouts and right-in/right-out control at the existing intersection.
02/15 – 08/17	US 71 Corridor Phase II, LADOTD, Rapides Parish, LA. <i>Roadway Engineer.</i> Provided technical oversight for conceptual design drawing development as part of the preparation of a Stage Zero feasibility study for the purpose of enhancing mobility and safety on US 71 in Alexandria, LA. Completed Stage Zero documentation, including Preliminary Scope and Budget and Environmental Checklists.
06/00 – 12/00	Hesper and Helios Avenue Street Rehabilitation, Jefferson Parish Engineering Department, Harvey, LA. <i>Roadway Engineer.</i> Completed inspections and developed rehabilitation recommendations for eight blocks of local streets. Rehabilitation required demolition and replacement of concrete road panels, milling and overlay of asphalt surfaces, and installation of drainage inlets and subsurface drainage, as well as replacement of damaged and under-performing subsurface drainage. Performed inspections, <i>collaborated with Parish representatives and utility companies</i> , identified appropriate rehabilitation measures, and produced plans illustrating the rehabilitation recommendations.
02/09 – 4/10	US 90 – WBV 73 Western Tie-In Crossing Lake Cataouatche Area, United States Army Corps of Engineers – New Orleans District, Jefferson Parish & St. Charles Parish, LA. <i>Deputy Project Manager and Lead Roadway and Drainage Engineer.</i> Developed <i>preliminary and final design</i> plans and specifications for a 2,540-foot prestressed concrete girder/column bent bridge, highway approaches, and frontage roadways.

Firm employed by:



Name	Gabriel Arias, PE	Years of relevant experience with this employer	1
Title	Transportation Engineer	Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization	BS / 2013 / Civil Engineering, Auburn University		
Active registration number / state / expiration date	PE. 0042599 / LA / Exp. 09/30/2027		
Year registered	2018	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities	Roadway Design		
	Mr. Arias has more than nine years of experience performing complex geometric design for roadway projects, including horizontal and vertical alignment, hydraulic design cross drain pipes (CDPs), and open ditches, turn lane design, striping and signage, structural design analysis and QC, traffic management plans, and roadway plan production. As a roadway design engineer, Gabriel has direct experience utilizing Louisiana Department of Transportation Development (LADOTD)'s Roadway Design Procedures and Details Manual.		
Experience dates	Experience and qualifications relevant to the proposed contract		
02/24 – Ongoing	I-10 Calcasieu River Bridge P3, Calcasieu Parish, LA. Roadway Engineer Assisted with the preparation and review of roadway design plans and documentation. Supported geometric design evaluations, prepared CAD drawings, and contributed to the development of roadway design plans. Coordinated with design team members to gather data, address design challenges, and ensure timely completion of project deliverables. Helped review design submittals and incorporated feedback from multidisciplinary teams and project reviewers.		
03/17 – Ongoing	I-49 Supplemental Environmental Impact Statement, LADOTD, St. Tammany Parish, LA. Roadway Engineer. Performed roadway concept design layout and plan/exhibit production. Conducted a Supplemental Environmental Impact Statement study to quantify the impacts of converting US-90, which has numerous existing access connections, to a control of access interstate (future I-49) facility. Developed multiple design alternatives in conjunction with LADOTD that resulted in the conversion of US-90 to I-49.		
11/20 – Ongoing	Lee Drive (Highland Road to Perkins Road), MOVEBR, Baton Rouge, LA. Roadway Engineer. Reconfigured Lee Drive to a “complete street” layout, including pedestrian accommodations, bike lanes, and shared use paths. Performed roadway design , plan production, QC, and client coordination.		
06/16 – 02/17	LA 435 to LA 40/LA 41, LADOTD, St. Tammany Parish, LA. Project Engineer. Constructed a new four-lane highway connecting I-12 to Bush, Louisiana, in St. Tammany Parish. The new roadway was approximately 19.8 miles in length and began at LA 434, north of the existing LA 434 interchange with I-12, and traversed in a northeasterly direction until encountering an abandoned rail corridor. It then followed the rail corridor, terminating at the LA 21/LA 41 intersections near Bush, Louisiana. Assisted with roadway geometric design, including horizontal and vertical alignment, hydraulic design for storm drains, CDPs and open ditches, structural design analysis and QC, traffic management plans, and roadway plan production for the new 5.5 mile, four-lane RA-3 roadway from LA 435 to Bush, LA.		

07/13 – 06/16	Bayou Mercier Road/Berard Canal Bayou, LADOTD, St. Martin Parish, LA. <i>Project Engineer.</i> Performed topographic field surveying and assisted with bridge design, hydraulic analysis and roadway design for the replacement of the existing off-system bridge timber structure with a quad-beam concrete structure.
07/13 – 02/17	Derrick Road Bridge, LADOTD, Iberville Parish, LA. <i>Project Engineer.</i> Performed topographic field surveying and assisted with bridge design, hydraulic analysis and roadway design for the replacement of the existing off-system bridge timber structure with a slab-span concrete structure.
07/13 – 02/17	Jude & Placide Road Bridges, LADOTD, Vermilion Parish, LA. <i>Project Engineer.</i> Performed topographic field surveying and assisted with bridge design, hydraulic analysis and roadway design for the replacement of the existing off-system bridges' timber structures with slab-span, concrete structures.
06/18 – 10/19	Mid-Barataria Diversion Design, Plaquemines Parish, LA. <i>Project Engineer.</i> Planned, engineered and designed services for the creation of the Mid-Barataria sediment diversion basin to strategically reintroduce sediment and freshwater inputs into the Barataria Basin. Assisted with detour roadway alignment creation/selection, Temporary Traffic Control planning, and plan preparation.
07/13 – 10/16	City of Thibodaux Overlay Projects, LADOTD, Lafourche Parish, LA. <i>Project Engineer.</i> Completed chip sealing, joint and crack sealing, resurfacing and complete pavement replacement for four separate locations in the city of Thibodaux, LA. Prolonged the life of the existing pavements by preventing future deterioration and/or rehabilitating the existing pavements. Assisted with roadway geometric design including horizontal alignments, selection of pavement treatment type, hydraulic design for storm drains, CDPs and open ditches, and roadway plan production.
09/13 – 02/17	Pecan Island Road Bridge Over The Chenal, LADOTD, Pointe Coupee Parish, LA. <i>Project Engineer.</i> Performed topographic field surveying and assisted with bridge design, hydraulic analysis, and roadway design for the replacement of the existing off-system bridge timber structure with a customized slab-span concrete structure.
07/13 – 02/17	Gracie Lane Bridge, LADOTD, Iberville Parish, LA. <i>Project Engineer.</i> Performed topographic field surveying and assisted with bridge design, hydraulic analysis, and roadway design for the replacement of the existing off-system bridge timber structure with a slab-span concrete structure.
04/14 – 02/17	Lajaunie Rd/Lateral 1 Bayou St. LADOTD, Clair, Lafayette Parish, LA. <i>Project Engineer.</i> Performed topographic field surveying and assisted with bridge design, hydraulic analysis, and roadway design for the replacement of the existing off-system bridge timber structure with a slab-span concrete structure.
11/15 – 02/17	Babin Rd./Bayou Narcisse, LADOTD, Ascension Parish, LA. <i>Project Engineer.</i> Performed topographic field surveying and assisted with bridge design, hydraulic analysis, and roadway design for the replacement of the existing off-system bridge timber structure with a slab-span concrete structure.
09/13 – 02/17	West 15th Avenue/Mile Branch, City of Covington, St. Tammany Parish, LA. <i>Project Engineer.</i> Performed topographic field surveying and assisted with bridge design, hydraulic analysis, and roadway design for the replacement of the existing bridge timber structure with a customized slab-span concrete structure. Included an integral pedestrian/bicycle path and a custom barrier to separate pedestrians and vehicles.

Firm employed by:  **ARCADIS**

Name	Garret Keller, PE	Years of relevant experience with this employer	17
Title	Design Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS / 2011 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date	PE.00040977 / LA / Exp. 03/2027		
Year registered	2016	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities	Roadway Design		



Mr. Keller is a civil design engineer who has spent his entire tenured career at Arcadis. He has been involved in several Louisiana Department of Transportation and Development (LADOTD) projects and has direct experience utilizing DOTD's Roadway Design Procedures and Details Manual. His responsibilities have included roadway and structural detailing and design, civil design, geometrics, and cost estimating. He also oversees implementation of CAD systems and standards for Louisiana including MicroStation, InRoads, and CAD conform for LADOTD work.

Experience dates	Experience and qualifications relevant to the proposed contract
09/12 – 04/14	US 165 Connector and Ouachita River Bridge Environmental Impact Statement, LADOTD, Ouachita Parish, LA. Roadway Designer. Provided roadway design support on a project that provided needed transportation system linkage in the north Monroe region.
08/11 – 11/14	Chef Menteur Bridge and Approaches Environmental Assessment, LADOTD, Orleans Parish, LA. Roadway Designer. Performed geometry and roadway design for a high-priority bridge replacement. Key issues included minimizing impacts to Bayou Sauvage National Wildlife Refuge, Fort McComb, the existing bridge that was eligible for the NRHP, and compliance with Complete Streets Policy.
07/15 – 06/17	US 190B at Jefferson Avenue Roundabout Design, LADOTD, St. Tammany Parish, LA. Roadway Engineer. Performed geometric and roadway design for replacing an existing four-lane signalized intersection with a single-lane roundabout. The project also included a Context Sensitive Solutions study to optimize benefits to adjacent real estate and community needs.
02/19 – 06/23	NDRC Ohio Creek Watershed Project, City of Norfolk, VA. Lead Civil Engineer. Constructed earthen berms, reinforced concrete floodwalls, and internal stormwater pump stations, as well as upgraded existing transportation infrastructure to provide better mobility and safety for pedestrians and bicyclists . These features included elevated roadways, new shared use paths, upgraded culverts with stormwater closure structures, and various green infrastructure treatments.
11/12 – 04/13	LA 594 (Millhaven Rd.) Alternatives, I-20 Economic Development Corporation, Ouachita Parish, LA. Primary Designer. Developed roadway intersection and roundabout improvement alternatives for a LADOTD Stage Zero study . Two roundabouts were evaluated in compliance with LADOTD Engineering Directives and Standards Manual (EDSM) V.1.1.5 (Analysis) and EDSM V.1.1.6 (Design).
02/09 – 02/13	US 90 WBV 73 – Western Tie-In Crossing Lake Cataouatche Area (Bridge/Roadway Approach/T-walls), United States Army Corps of Engineers – New Orleans District, Jefferson & St. Charles Parishes, LA. Project Designer. Prepared plans and specifications for a new floodwall and highway bridge in St. Charles Parish. Designed floodwalls, a four-lane highway bridge, and detour roads to maintain traffic traveling on US Highway 90. The project involved improvement layout and quantity calculations in support of cost estimates.

Firm employed by:



Name	Craig Raymond, PE	Years of relevant experience with this employer	8
Title	Roadway Design Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS / 2013 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date	PE.0042715 / LA / Exp. 03/31/2027		
Year registered	2018	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities	Roadway Design		



Mr. Raymond's experience encompasses geometric design of levees, highways, streets, roundabouts, and aprons, as well as preparing environmental permit drawings. He has worked on a wide range of roadway and civil design projects, including geometric design, line and grade, and typical sections to support Louisiana Department of Transportation and Development (LADOTD) projects. His responsibilities have included preparing engineering designs, plans, and specifications; developing cost estimates; coordinating with permitting agencies; and providing project oversight.

Experience dates	Experience and qualifications relevant to the proposed contract
04/13 – 07/14	US 11 Environmental Assessment, Bridge Replacement, and Roadway Improvements, LADOTD, St. Tammany Parish, LA. <i>Roadway Engineer.</i> Conducted an Environmental Assessment for the replacement of the US-11 Bridge, which included widening of US-11 from two lanes to four lanes from US-190 north to I-12. Provided alternative development, geometric and roadway design, line and grade, and plan preparation for two alternatives.
12/13 – 06/15	LA 3235 Stage 0 Safety Feasibility Study, LADOTD, Lafourche Parish, LA. <i>Roadway Engineer.</i> Collected roadway information and performed roadway design to preserve and enhance safety and mobility of the corridor. The project included improvement considerations such as median opening channelization, turn lane storage, median closure, among others.
05/14 – 05/15	Stage 0 Feasibility Study - Joe Sevario / Roddy Road Roundabouts, LADOTD, Ascension Parish, LA. <i>Roadway Engineer.</i> Performed geometric and roadway design, and developed cost estimates for the replacement of 10 existing stop-controlled intersections with single-lane roundabouts.
11/14 – 11/15	LA-44 and Loosemore Road Roundabout Feasibility Study, LADOTD, Ascension Parish, LA. <i>Roadway Engineer.</i> Performed roadway design for the improvement of existing roadway infrastructure at the intersection of LA-44 and Loosemore Road. The project included design for incorporating modern roundabouts to the interchanges to enhance mobility and safety, collected data from all existing utilities and developed cost estimates.
01/14 – 12/14	Pete's Highway Interchange Alternative and Environmental Assessment, LADOTD, Livingston Parish, LA. <i>Roadway Engineer</i> for the I-12/South Range Avenue interchange improvements. Provided alternative development, typical sections, line and grade, and plans detailing right-of-way and utilities.
11/16 – 08/19	LA 88 Roundabouts Preliminary Plans, LADOTD, Iberia Parish, LA. <i>Roadway Engineer.</i> Developed plans for two single-lane roundabouts at US 90/LA 88 ramp terminals, including service road modifications to J-Turns and new U-Turn locations.
07/15 – 06/17	US 190B at Jefferson Avenue Roundabout Design, LADOTD, St. Tammany Parish, LA. <i>Roadway Engineer.</i> Completed preliminary roadway design plans based client comments. Developed MicroStation files such as typical pavement section and details, plan and profile sheets, and construction sequencing sheets.

Firm employed by: **ARCADIS**

Name	Colin C. Sarratt, PE	Years of relevant experience with this employer	10
Title	Senior Hydraulics Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS / 2015 / Civil Engineering		
Active registration number / state / expiration date	PE.0046542 / LA / Exp. 09/30/2026		
Year registered	2022	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities	Hydraulic Engineering		



Mr. Sarratt has 10 years of experience on transportation projects with a focus on stormwater hydrology and hydraulics and roadway engineering. His expertise includes hydraulic analysis and hydrologic feasibility studies, open and closed conveyance system design, culvert and cross-drain design, post-construction stormwater and water quality best management practices (BMP) design, and 2D bridge hydraulic bridge analysis. He has been responsible for leading hydrology and hydraulics design for schematics, design build, and complete plans, specifications, and estimate (PS&E) plan sets. He is proficient in Microstation, GEOPAK Subsurface utilities, Inroads, OpenRoads, StormCAD, SMS, and SRH2D.

Experience dates	Experience and qualifications relevant to the proposed contract
08/25—Ongoing	LADOTD IDIQ Contract for Hydraulics Section Support, Statewide, Louisiana. <i>Project Manager</i> for this IDIQ contract to provide Hydraulics Section manuals updating , HEC-RAS 1D and 2D watershed modeling, performance and technical review of NFIP no-rise applications, CLOMR and LOMR applications for highway and bridge projects, 2D bridge hydraulic modeling and scour analysis utilizing Aquaveo's SMS software, and general hydrologic and hydraulic analysis.
09/21 – 04/25	Calton Road Overpass, TXDOT, City of Laredo, Webb County, TX. <i>Project Manager and Drainage Lead</i> for the Calton Road railroad overpass spanning Santa Maria Avenue, the Union Pacific Railroad mainline, and turnaround tracks. The project also includes widening of Calton Rd to maintain access to Santa Maria Avenue due to the proposed overpass. As project manager, Colin kept close coordination between multiple design disciplines and stakeholders including the City of Laredo, TxDOT, and UPRR. The project also included the design of a closed drainage system with additional storage capacity in order to mitigate impacts to the existing drainage system downstream of the project site and still meet hydraulic grade line requirements.
10/22 – Ongoing	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Replacement (OSBR) Program, District 01, LADOTD. <i>Senior Drainage Engineer.</i> Arcadis prepared preliminary and final plans of six proposed bridges, which included plan and profile sheets, typical roadway sections and quantities, a general bridge plan, traffic detour and road closure details, and relevant signing plans, as well as channel cross-sections. As senior drainage lead for this program, oversaw and prepared all Hydraulic analysis and design.
06/17 – 03/22	Ogeechee River Bridge Replacement, GDOT, Effingham County, GA. <i>Drainage Lead</i> for the roadway realignment and bridge replacement for two (2) bridges at the SR 119 and Ogeechee River bridge crossing (1 main channel and 1 of 2 overflow bridges). The project involved the creation of a 2D hydraulic model utilizing SMS and SRH-2D to design the proposed multiple bridge configuration along SR 119, determine proposed bridge lengths and elevations, and meet both GDOT bridge design standards and GDOT hydraulic design studies requirements for the proposed configuration.
02/22 – 04/25	I-10 Calcasieu River Bridge P3, LADOTD, Calcasieu Parish, LA. <i>Drainage Lead</i> Segment 1 of the I-10 Calcasieu Bridge Replacement P3 project to replace the existing I-10 bridge over the Calcasieu River with a new bridge north of I-10. The project also includes the construction of several new bridge structures within the project limits, both inside and outside

	widening of I-10, improvements and modifications to existing interchanges, and improvements to other associated roadways within the project limits. Project involves the design of both open and closed conveyance systems for Segment 1 between Prater Rd and PPG drive, culvert and cross-drain analysis and design, and outfall analysis utilizing LADOTD HYDR design software.
12/15 – 04/25	GDOT MS4 Permit Compliance (State-wide, GA). <i>Drainage Lead</i> for an ongoing contract to provide program assistance including public education and outreach on stormwater impacts, public involvement/participation , illicit discharge detection and elimination, construction site stormwater runoff control, post-construction stormwater management, pollution prevention/good housekeeping for municipal-type operations, and water quality monitoring and total maximum daily load. Responsibilities include the research and development of GDOTs post-construction stormwater BMP details and example plan sheets for state-wide, creation and development of MS4 related standards and specifications, assisting with the development of GDOT MS4 policy, and MS4 related GDOT Drainage Report revisions.
11/16 – 04/18	FY-17 Bridge Bundles, GDOT, Polk County, GA. <i>Drainage Lead</i> for replacement at Mountain Loop Road over Little Cedar Creek in Polk County, GA as part of the GDOT FY-17 Bridge bundles project. The project involved the creation of a 2D hydraulic model utilizing SM and SRH-2D in order to design the proposed bridge crossing due to the sever skew of the creek under the existing bridge. Responsibilities included the design of the proposed bridge lengths and elevations in order to meet GDOT Bridge design standards and GDOT hydraulic design study requirements for the proposed configuration, H&H report creation, and a bridge deck drainage analysis.
02/23 – 05/23	Shelby Avenue Off-System Bridge Replacement, TxDOT, Hunt County, TX. <i>Drainage Lead</i> for the Shelby Avenue Bridge Replacement Project to replace the existing bridge over Faber Creek as part of the Paris District Off-System bridge PS&E replacement project. Responsibilities included leading the H&H analysis for the bridge crossing for both the existing and proposed conditions, determined and verified peak flows at the existing crossing, performed an impact assessment due to changes in water surface elevations, developed HEC-HMS and HEC- RAS models, and prepared a comprehensive drainage report to document findings.
06/21 – 12/22	TDOT I-65 Widening, Sumner & Robertson Counties, TN. <i>Drainage Engineer</i> for Segment 2 of the I-65 widening project to widen I-65 to three lanes from Highway 31w to south of New Hall Rd that included both inside and outside widening. Project involved the design of numerous closed drainage systems in OpenRoads due to proposed inside widening, determining pre-developed and post-developed peak flows for project outfalls, open conveyance system design, and the design and analysis of multiple culvert and cross-drains crossings throughout the project.
03/22 – 04/24	FM 1209 at FM 969 Intersection Improvements, TxDOT, Bastrop County, TX. <i>Project Manager and Drainage Lead</i> for the FM 1209 at FM 969 Intersection Improvements to reconstruct the existing Y-intersection into a T-intersection, provide full depth reconstruction for both roadways, construction of a right-hand turn lane along FM 1209 EB with additional widening for a future left-hand turn lane, and the construction of a flashing beacon with the anticipation of a future signalized intersection and through lane. Project involved multiple planning considerations due to future developments adjacent to and within close proximity to the project site. The drainage design primarily included both cross-drain and open channel design.
07/22 – 04/25	Grant Rd Widening – Segment 4 (Harris County, TX). <i>Project Manager</i> for the study phase to widen Grant Rd from 2 to 4 lanes with a raised median and south-side sidewalk (Cypress Rose Hill Rd to Telge Rd). Led coordination with Harris County and stakeholders on shared outfall design, stormwater channel expansion, and permitting. Managed subconsultants, traffic studies, and study phase reporting.

Firm employed by.



Name	Amanda Check, PE	Years of relevant experience with this employer	11
Title	Senior Hydraulics and Drainage Engineer	Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization	BS / 2008 / Civil Engineering, Georgia Institute of Technology		
Active registration number / state / expiration date	PE 45736 / LA / Exp. 09/2027; GA Level II Certified Design Professional ES&PC / Exp. 03/2029		
Year registered	2012	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Hydraulic Engineering		



Ms. Check has experience in drainage and hydraulic design, Municipal Separate Storm Sewer Systems (MS4), erosion control, roadway design, and geographic information systems (GIS). She has completed hydrologic and hydraulic modeling and studies on culverts, bottomless culverts, and bridges, including adhering to FEMA requirements on FEMA studied waterways. She has designed horizontal and vertical alignments, roadway drainage, MS4, and erosion control on projects ranging from rural roadways to interstates. Her knowledge and experience with GIS provide a valuable supplement to her design capabilities. Ms. Check has knowledge in multiple software programs including MicroStation, StormCAD, InRoads, OpenRoads, HEC-RAS, HEC-2, SRH-2D, HY-8, Hydraflow, FlowMaster, PondPack, SWMM, WinTR-55, WMS, and ArcGIS. She has completed the NHI SRH-2D training course (135095 Two-Dimensional Hydraulic Modeling of Rivers at Highway Encroachments) and 1D/2D Modeling with HEC-RAS training course. Ms. Check is a member of the American Society of Highway Engineers and the American Council of Engineering Companies.

Experience dates

Experience and qualifications relevant to the proposed contract

07/18 – 01/21

I-40 Bridge Replacement over the Buffalo River Tennessee Department of Transportation (TDOT), Humphreys County, TN. Hydraulic Engineer. The project replaced the existing eastbound and westbound bridges of I-40 over the Buffalo River with a new bridge constructed on the same horizontal alignment. Each existing bridge was 1,765 feet long, comprised of 42 spans and the proposed bridge is 1,775 feet long, comprised of 11 spans. Federal Emergency Management Agency (FEMA) has not established a regulatory floodplain or floodway for the project site, designated on the FIRM as Zone A. Responsible for the **hydrologic calculations, Hydrologic Engineering Center - River Analysis System (HEC-RAS) hydraulic modeling**, scour calculations, abutment riprap calculations, deck drainage calculations, and report preparation.

12/15 – 03/23

FY 2016 - FY 2022 Bridge Design-Build Program Georgia Department of Transportation (GDOT), Various Counties, GA. Hydraulic Engineer. Program included costing plans for over fifty low impact, low volume, off system bridge replacements across Georgia where existing bridges were structurally deficient. Provided senior Quality Assurance and Quality Control (QA/QC) review of the hydrologic calculations, HEC-RAS hydraulic modeling, **scour calculations, abutment riprap calculations, deck drainage calculations**, and report preparation.

01/21 – 03/23

CR-122/Humpback Road over Little Satilla River GDOT, Brantley County, GA. Hydraulic Engineer. The project replaced the existing 132 feet long 11 span bridge with a 180 feet long 4 span proposed bridge constructed on the same horizontal alignment. FEMA has not established a regulatory floodplain or floodway for the project site, designated on the FIRM as Zone A. The floodplain is very wide (approximately 8,000 feet) and the site and roadway are flooded during typical/non-extreme rain events throughout the year. Responsible for the hydrologic calculations, HEC-RAS hydraulic modeling, scour calculations, abutment riprap calculations, deck drainage calculations, and report preparation.

01/18 – 02/21	SR-38 over Little McMillan Creek Bridge Replacement GDOT, Wayne County, GA. <i>Hydraulic Engineer</i> . The project replaced the existing SR-38 twin bridges over Little McMillan Creek with new bridges constructed on the same horizontal alignment. The existing bridges are 200 and 208 feet long (eight spans each bridge) and the proposed bridges are 255 and 265 feet long (six spans each bridge). The hydraulic model also includes a downstream existing CSX railroad bridge (136 feet long, 14 spans). The project site is in FEMA Zone AE without a designated floodway, and the FEMA effective model was in Water Surface Profiles (WSPRO). Directly upstream/at the westbound bridge, Millikin Bay and Coleman Branch converge to create Little McMillan Creek. A minimal rise resulted but was within FEMA and GDOT allowable rise of one foot. Responsible for the hydrologic calculations, FEMA and GDOT hydraulic modeling in HEC-RAS , scour calculations, abutment riprap calculations, deck drainage calculations, report preparation, and community coordination .
03/20 – 03/21	I-285 Westbound Ramp Extension GDOT, DeKalb County, GA. <i>Hydraulic Engineer</i> . The project extended an I-285 westbound off-ramp, with the widening occurring over existing box culverts at North Fork Nancy Creek and North Fork Nancy Creek Unnamed Tributary 2. The project site is in FEMA Zone AE and has a designated floodway. The extensions of the two box culverts resulted in a minimal rise in Base Flood Elevations (BFEs). Responsible for the hydraulic analysis and associated Conditional Letter of Map Revision (CLOMR) application package, FEMA coordination, and community coordination . After the initial CLOMR submittal to FEMA the HEC-RAS modeling and extension design was revised to obtain a no-rise by lining one of the culvert barrels.
02/21 – Ongoing	I-285 at I-20 East Interchange Reconstruction GDOT, DeKalb County, GA. <i>Hydraulic/Drainage Engineer</i> . The Design-Build project reconfigured the I-285/I-20 eastern interchange, widened and reconstructed approximately 6 miles of I-20, and reconstructed and improved approximately 2 miles of side roads. Responsible for the drainage and MS4 design and respective reports preparation, in addition to the erosion and sedimentation control design, calculations, and plans. One of the project's bridge replacements was a hydraulic crossing (I-20 over Snapfinger Creek) and is designated as FEMA Zone AE with a designated floodway. Responsible for the hydrologic calculations, HEC-RAS hydraulic modeling , scour calculations, abutment riprap calculations, deck drainage calculations, and report preparation. The bridge replacement resulted in no increase in BFEs, however, the floodway width was revised at one published cross section. Responsible for the associated CLOMR and LOMR application packages, FEMA coordination, and community coordination with DeKalb County and the City of Stonecrest.
07/23 – Ongoing	I-285 at I-20 West Interchange Reconstruction GDOT, Cobb and Fulton Counties, GA. <i>Hydraulic Engineer</i> . The Design-Build project reconfigured the I-285/I-20 western interchange, widened and reconstructed approximately 6 miles of I-20, and reconstructed and improved approximately 2 miles of I-285. One of the project's bridge widenings was a hydraulic crossing (I-20 over Chattahoochee River) and is designated as FEMA Zone AE with a designated floodway. Initial modeling of bridge widening resulted in a minimal rise in BFEs. However, with the excavation/regrading of one overbank under the bridge a no-rise was achieved. Responsible for review of the hydraulic analysis and associated No-Rise Certification and community coordination with Cobb and Fulton Counties and the City of South Fulton.

Firm employed by: **ARCADIS**

Name	Lina Khoury, PE, CPESC, CFM		Years of relevant experience with this employer	3
Title	Senior Hydraulics Engineer		Years of relevant experience with other employer(s)	16
Degree(s) / Years / Specialization			MS / 2013 / Environmental Engineering, Tennessee State University BS / 2008 / Civil Engineering, Jordan University of Science and Technology	
Active registration number / state / expiration date			Professional Engineer 117663 / TN / Exp. 06/30/2027; Certified Professional in Erosion and Sediment Control No. 9267; Certified Floodplain Manager/ US-19-11213 / Exp. 1/31/2028	
Year registered	2015	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities			Hydraulic Engineering	
			Ms. Khoury brings 19 years of experience in hydrology and hydraulics, roadway drainage design, erosion prevention and sediment control design, and state and federal water quality permitting. Lina has a diverse and well-rounded project background having worked in multiple disciplines related to roadway projects. She is licensed in multiple states and is familiar with different state and DOT manuals and guidelines. She has been a trusted client resource as an owner representative and training provided for TN DOT drainage staff. Lina is experienced reviewing plans per LADOTD manuals and drainage tools. She is experienced with multiple design software including, HEC-RAS, HEC-HMS, HY-8, SMS-SRH-2D, FHWA Hydraulic Toolbox, MicroStation, Geopak Drainage, OpenRoads, StormCAD and ArcGIS.	
Experience dates			Experience and qualifications relevant to the proposed contract	
02/22 – 04/25			I-10 Calcasieu River Bridge P3, LADOTD Calcasieu Parish, LA. <i>Drainage Engineer</i> Segment 1 of the I-10 Calcasieu Bridge Replacement P3 project to replace the existing I-10 bridge over the Calcasieu River with a new bridge north of I-10. The project also includes the construction of several new bridge structures within the project limits, both inside and outside widening of I-10, improvements and modifications to existing interchanges, and improvements to other associated roadways within the project limits. Project involves the design of both open and closed conveyance systems for Segment 1 between Prater Rd and PPG drive, <i>culvert and cross-drain analysis and design, and outfall analysis utilizing LADOTD HYDR design software.</i>	
08/25—Ongoing			LADOTD IDIQ Contract for Hydraulics Section Support, Statewide, Louisiana. <i>Project Manager.</i> Arcadis’ task under this IDIQ contract includes Hydraulics Section manuals updating, HEC-RAS 1D and 2D watershed modeling, performance and technical review of NFIP no-rise applications, CLOMR and LOMR applications for highway and bridge projects, <i>2D bridge hydraulic modeling and scour analysis</i> utilizing Aquaveo’s SMS software, and general hydrologic and hydraulic analysis.	
06/24 – Ongoing			SR107/SR81 Progressive Design Build Bridge Replacement, TDOT, Greene and Washington Counties, TN. <i>Hydraulics, Drainage and Permits Engineer Lead</i> on the emergency progressive design build as an owner representative to review <i>H&H modeling, scour analysis, deck drain design</i> , TVA requirements, roadway stormwater design, water quality permits, environmental compliance plan, and EPSC plans. These projects are considered emergency projects since hurricane Helene washed both bridges and their approaches out. The review included continuous collaboration with the TDOT team and Design-Build contractor.	

03/21 – Ongoing	Bridge Bundle Design Build, GDOT, Multiple Counties, GA. <i>Lead Hydraulics Engineer</i> on the bridge bundle design build to provide owner representation for reviewing and commenting on bridge hydraulics submitted by the design build team. The bundle included six bridge hydraulics studies . One of the bundles is the replacement of the existing bridge (Structure ID 037-5013-0) on County Road (CR) 134/Rice Road over Falling Creek 6.5 miles north of Morgan in Calhoun County, Georgia. Existing right-of-way (ROW) varies between approximately 100-200 feet. No ROW would be required as part of the proposed project. The length of the proposed project would be approximately 1,000 feet.
06/24 – Ongoing	I-55 From South of Mississippi River to North of Mississippi River -CMCG, TDOT, Shelby County, TN. <i>Hydrology and Hydraulics Lead Engineer</i> - Owner Representative for the replacement of the I-55 bridge over the Mississippi River in Shelby County. The scope of work includes preparing 2D H&H analysis in SMS-SRH2D and HEC-RAS2D and provide preliminary scour analysis to FHWA to assist in developing scour analysis through new and updated methodologies. This bridge is in FEMA AE zone, US Coast Guard (USCG) jurisdiction, and US Army Corps of Engineers jurisdiction. Arcadis is also in charge of obtaining a no-rise solution and assist TDOT with a USCG bridge permit application . The project is a reconstruction and widening of I-55 for 1.65. The bridge length is 1.01 miles
02/24 – Ongoing	SR-30 (Old Washington HWY) from Near SR-29 (US-27) to West of New Union Rd./ White Oak Rd., TDOT, Rhea County, TN. <i>Project Manager and Lead H&H QC</i> responsible for reviewing and providing design guidance for the hydraulic modeling of the bridge over Richland Creek. The project is in FEMA zone AE and TVA reservoir. H&H study was completed for the no-structure, existing and proposed bridges. The bridge span arrangement was set to provide vertical and horizontal clearances for TVA in addition to an arrangement to obtain a no-rise solution.
06/24 – Ongoing	SR67 Bridge over the Doe River Emergency Repair, TDOT, Carter County, TN. <i>Hydraulics and Scour Engineering Lead</i> responsible for owner representation for reviewing H&H study and scour analysis for the bridge. Flooding from Hurricane Helene severely damaged the SR-67 concrete arch bridge (Bridge Number 10SR0670029) over the Doe River. The flood caused undermining of the footings, settlement, cracking of the structure along with widespread channel bank erosion and flood debris. This project includes the repair of the existing bridge by stabilization of the substructure, strengthening of the undermined foundations, restoration of the bridge to its original elevation, and bridge repairs.
05/22 – Ongoing	Blue Oval G2 Segments, SR-194, New Route from Northern Interchange to SR-1 & New Route connecting I-40 to SR-59, TDOT, Fayette, Haywood & Tipton Counties, TN. <i>Lead Stormwater Engineer</i> responsible for culvert design, ditch design, erosion prevention and sediment control design, permit sketches, coordination between drainage, roadway and structures , and assisting with water quality permit requirements on plans for the Blue Oval G2 Roadway Improvements. G2 South is approximately 3.3 miles and consists of extending SR-194 from the existing termini at SR-59 to the proposed SR-194/I-40 interchange in Fayette County. G2 South includes three bridges and the design of multiple box culverts. G2 North is approximately 2.1 miles and consists of extending SR-194 from the proposed SR-194/Blue Oval Connector (Proposed SR-468) Interchange in Haywood County to existing SR-1(US-70) in Tipton County. G2 North contains three bridges, including a new structure over an active rail line . All designs and plan development are being done with Bentley OpenRoads Designer (ORD) design software. Arcadis is providing roadway design services and assisting with public involvement, while working in conjunction with other team members providing survey, geotech, material testing, hydraulic design, bridge design, and traffic engineering services.

Firm employed by.  **ARCADIS**

Name	Ari Deitch, PE, PTOE, PTP, RSP1		Years of relevant experience with this employer	11
Title	Senior Transportation Engineer		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization			BS / 2012 / Biological Engineering, Louisiana State University	
Active registration number / state / expiration date			PE.0041842 / LA / Exp. 03/2028; PTOE #4346 / USA / Exp. 11/2026 PTP #690 / USA / Exp. 07/2028; RSP #37 / USA / Exp. 12/2027	
Year registered	2018	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities			Road Design & Traffic Services	



Mr. Deitch is a Senior Traffic Engineer specializing in traffic engineering and design, safety, transportation management, and conceptual roadway design. He has experience managing and working on projects for Louisiana Department of Transportation and Development (LADOTD) and the City of Baton Rouge, as well as other DOTs across the country, pertaining to **NEPA studies**, interchange modification / justification reports, Stage 0 feasibility studies, transportation management plans, traffic, and safety studies, pedestrian and bicycle improvements, access management, signal design, and signing and marking design. He has experience and proficiency in IHSDM, SYNCHRO, VISTRO, VISSIM, SIDRA, GuidSIGN, HCS, and MicroStation software. Mr. Deitch has also completed LADOTD Traffic Engineering Process and Report (TEPR) Training.

Experience dates	Experience and qualifications relevant to the proposed contract
02/22 – Ongoing	I-10 Calcasieu River Bridge P3, Calcasieu Parish, LA. Traffic Engineer for the I-10 Calcasieu Bridge Replacement P3 project to replace the existing I-10 bridge over the Calcasieu River with a new bridge north of I-10. The project includes constructing several new bridge structures within the project limits, widening I-10 on both the inside and outside, improving and modifying existing interchanges, and enhancing other associated roadways. Responsibilities included performing traffic engineering, including developing a Transportation Management Plan (TMP) and designing permanent signage, signals, and pavement markings.
11/20 – Ongoing	I-10 CMAR, LADOTD, East Baton Rouge Parish, LA. Traffic Engineer. The Project includes improvements on Interstate 10 through widening and reconstruction of the mainline from 3 to 4 lanes in each direction, including bridge replacement and rehabilitation, interchange and ramp modification, shoulder widening, and auxiliary lane(s) construction from LA 415 to Essen Lane on I-10 and I-12. Responsibilities included performing a wide range of traffic engineering tasks, including developing permanent signing plans, preparing Interchange Modification Reports , and developing TMPs for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment.
07/14 – 06/23	Pete's Highway Traffic Study and Environmental Assessment, LADOTD, Denham Springs, LA. Traffic Engineer. Performed traffic analysis of proposed alternatives using VISSIM software. Played a key role in developing preliminary roadway design drawings incorporating Complete Streets. Completed an Environmental Assessment (EA) and Line and Grade and provided traffic engineering services related to improving operations and safety along Range Avenue at the I-12 interchange. Developed an Interchange Modification Report including traffic study results and Federal Highway Administration Policy Points.
04/22 – Ongoing	LA 30 (I-10 to EBR Parish Line) EA, LADOTD, Ascension Parish, LA. Senior Traffic Engineer. Provided technical advisory for traffic engineering tasks including traffic data collection, peak period observations, volume projections and Highway Capacity

	Analysis (multi-period analysis using Highway Capacity Software) and maintained conformance with LADOTD TEPR Requirements.
03/17 – Ongoing	I-49 Supplemental Environmental Impact Statement (EIS), LADOTD, St. Mary Parish, LA. <i>Senior Traffic Engineer.</i> Performed traffic engineering tasks, including data collection, volume development, VISSIM microsimulation model calibration, and alternative development and analysis . Conducted a Supplemental Environmental Impact Statement study to quantify impacts of converting US-90, which has numerous existing access connections, to a controlled-access interstate (future I-49) facility. Arcadis developed a unique volume development methodology to estimate traffic redistribution resulting from conversion of US-90 to I-49.
07/14 – Ongoing	US 11 Environmental Assessment (EA), LADOTD, St. Tammany Parish, LA. <i>Traffic Engineer.</i> Performed crash analysis, operating speed tabulations, intersection and corridor analysis, alternative development, and noise modeling for the proposed widening of US 11 between US 190 (Gause Blvd) and I-12 in Slidell, LA. Proposed improvements include replacing a bridge crossing the Norfolk Southern Railroad. The project analyzed several innovative alternatives for the proposed corridor, including “superstreets” and J-turn concepts .
02/23 – 05/24	District 04 Pedestrian Safety Improvements, LADOTD, Caddo and Bossier Parish, LA. <i>Project Manager.</i> Responsibilities included performing contract management and providing technical advisory for this Stage 0 Feasibility Study to develop and evaluate safety countermeasures addressing pedestrian safety needs on seven corridors within Caddo and Bossier Parish. The study methodology followed a Road Safety Assessment approach and included historical crash analysis and on-site field reviews to identify pedestrian safety needs. Countermeasures were developed in close coordination with project stakeholders including City of Bossier, City of Shreveport, North Louisiana Council of Governments, Downtown Development District, and District 04. Stakeholders also participated in virtual and on-site field reviews. Study data, methods, and results were documented in Stage 0 Feasibility Reports for all seven study corridors, with Preliminary Scope and Budget Checklist and Environmental Checklist. Performed benefit-cost analysis to aid in prioritizing the implementation of countermeasures.
04/16 – 09/18	New Orleans Pedestrian Safety Improvements, LADOTD, Orleans Parish, LA. <i>Project Manager.</i> Responsibilities included assessing existing and future safety deficiencies related to pedestrian and bicycle modes and selecting safety countermeasures for 20 high-risk locations. Developed design drawings for proposed short-term and long-term improvement phases and conducted benefit-cost analysis to inform project prioritization. Conducted safety analysis using Highway Safety Manual predictive methods. Organized and led project stakeholder meetings to review alternatives, obtain feedback, and develop context-sensitive solutions. Completed Stage 0 documentation, including Preliminary Scope and Budget and Environmental Checklists for all 20 intersections.
04/16 – 10/19	I-12 Hard Shoulder Running Feasibility Study and Preliminary Design, LADOTD, East Baton Rouge and Livingston Parishes, LA. <i>Traffic Engineer.</i> Conducted traffic analysis using a calibrated microsimulation model to evaluate the operational performance of Hard Shoulder Running and High-Occupancy Vehicle lane alternatives. Developed conceptual drawings and construction cost estimates to evaluate the feasibility of proposed alternatives.
02/17 – 02/18	I-49 Interchange Safety Improvements, LADOTD, Lafayette Parish, LA. <i>Traffic Engineer.</i> Responsibilities included performing data collection and analysis, conducting traffic analysis, and developing conceptual design drawings. The study identified feasible improvement alternatives to address safety issues along the I-49 corridor at three interchanges. Participated in meetings with LADOTD HQ and District 03 team members to understand needs and develop context-sensitive solutions.

Firm employed by.



Name	Kester Hollier, PE, PTOE	Years of relevant experience with this employer	4
Title	Senior Transportation Engineer	Years of relevant experience with other employer(s)	16
Degree(s) / Years / Specialization	BS / 2004 / Civil Engineering, Louisiana Tech University		
Active registration number / state / expiration date	PE.034304 / LA / Exp. 03/2027 PTOE #3928 / USA / Exp. 11/2027		
Year registered	2009	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities	Road Design & Traffic Services		



Mr. Hollier has 20 years of experience in the field of transportation engineering including traffic engineering, signal timing and design, roadway design, complete street improvement projects, roadway safety analysis and design, and construction management and inspection. Working on a wide variety of projects from the planning and conceptual phases to the design and construction phases, has given him the experience to help identify the needs and requirements for projects. This experience allows him to understand stakeholders ranging from local public agencies to state Department of Transportation and helps provide expertise in achieving successful solutions for a variety of projects. He has experience and proficiency in traffic engineering and safety analysis software including IHSDM, SYNCHRO, VISTRO, VISSIM, SIDRA, GuidSIGN, HCS and MicroStation software.

Experience dates	Experience and qualifications relevant to the proposed contract
09/12 – 02/16	Stage 1 Environmental Assessment for Replacing Belle Chasse Tunnel and Bridge, Louisiana Department of Transportation and Development (LADOTD), Plaquemines Parish, LA. Traffic Engineer. Responsible for the <i>feasibility study and traffic analysis</i> along LA 23 (Belle Chasse Highway) between LA 428 (Behrman Highway) and LA 406 (Woodland Highway) for multiple 6-lane bridge alternatives proposed to replace the existing Belle Chasse Tunnel and lift bridge over the Intercoastal Waterway. These alternatives included 3%, 4%, and 5% bridge grades that modified roadway geometry and intersection location. Responsible for the review of roadway design and costs for the <i>Line and Grade Study</i> along with the review of the construction sequencing and traffic maintenance of the constructability review.
11/20 – Ongoing	I-10 CMAR, LADOTD, East Baton Rouge Parish, LA. Project Manager. Responsible for <i>traffic engineering tasks including development of permanent signing plans, traffic signal plans</i> , interchange modification reports, and transportation management plans for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. Extensive <i>historical crash and safety analysis</i> is being performed in support of the IMR and TMP. One critical component of the project is maintaining traffic during the construction of new bridge structures. Multiple scenarios are being evaluated using a <i>calibrated mesoscopic model</i> to determine the impacts during construction and mitigations that will be necessary to minimize delay.
12/17 – 11/19	Causeway Boulevard Widening, Jefferson Parish, LA. Project Manager / Traffic Engineer. Responsible for the traffic and safety study for the proposed widening of Causeway Boulevard between Metairie Rd. and West Esplanade Blvd. in Jefferson Parish, LA. Tasks included data collection, traffic volume redistribution, left-turn placement and turn bay storage length, and existing traffic analysis and <i>future traffic analysis of a preferred alternative</i> .

11/17 – 07/20	LA 466 (5th Street) Improvements Traffic Study, City of Gretna, Jefferson Parish, LA. <i>Project Manager / Traffic Engineer.</i> Responsible for the traffic study and impacts for the proposed complete streets improvements along the LA 466 corridor between LA 23 and Richard St. in Gretna, Louisiana. Tasks included data collection along the corridor and at designated intersections, safety and crash analysis along the corridor, trip generation/land use and performing existing traffic analysis and future traffic analysis for proposed final alternative . The traffic study was prepared to follow the LADOTD Traffic Engineering Process and Report Guidelines . The project also included a stand alone pedestrian study along the corridor at designated intersection and the design of accessible pedestrian signals at signalized intersections.
07/21 – 07/22	US 61: Cardinal Drive to Bert Street Safety Improvements, LADOTD, St. John the Baptist Parish, LA. <i>Traffic Engineer.</i> Assisted with the development of a Stage 0 Feasibility and Safety Study for the US 61 Corridor in LaPlace, LA. Responsible for traffic and safety analysis tasks for existing , no-build, and build conditions. Analysis was performed using HCS. Purpose of the study was the develop and evaluate feasible alternatives that would address operational and safety needs along the corridor.
06/13 – 04/14	US 190 Roundabout and Pedestrian Improvements, LADOTD, St. Tammany, LA. <i>Traffic Engineer.</i> Responsible for roundabout geometric design and pedestrian and bike path design along the US 190 corridor in the City of Slidell and St. Tammany Parish to improve safety for motorized and non-motorized roadway users.
05/14 – 08/20	Causeway Blvd. at Earhart Expwy. Interchange, LADOTD, Jefferson Parish, LA. <i>Traffic/Civil Engineer.</i> Responsible for the design of traffic control and construction sequencing, pavement marking layout, quantity analysis, cost estimates, and quality control for a new interchange at LA 3139 (Earhart Expwy.) and LA 3046 (Causeway Blvd.) in Jefferson Parish, LA. Provided review for the interchange traffic sign and traffic signal timings and design . Identified all necessary design waivers and design exceptions required for LADOTD approval. Provided geometric layout design, typical section design and review, and joint layout design for several interchange ramps and underpasses.
10/18 – 01/19	LA 22 Traffic Circulation and Corridor Analysis, NORPC, St. Tammany Parish, LA. <i>Traffic Engineer.</i> Responsible for the development of three future alternatives along Northshore Boulevard between I-12 and US 190 in Slidell, LA. Managed data collection and peak period observations to determine existing traffic patterns as well as the safety analysis along the corridor. Developed three alternatives that used a combination of traffic signal retiming, J-turns, and roundabouts to provide better access management along Northshore Boulevard as well as improve traffic flow in the corridor for current and proposed future conditions with consideration given to proposed future developments using trip generation and land use analysis.
05/09 – 07/13	LA 23 Widening (Lapalco Blvd. – Engineers Rd.), LADOTD, Jefferson and Plaquemines Parishes, LA. <i>Traffic/Civil Engineer.</i> Responsible for the roadway design and geometrics for the widening of LA 23 in Jefferson and Plaquemines Parishes between Lapalco Blvd. (LA 428) and Engineers Rd. (LA 3017). Developed traffic analysis for signal timing and required turn bay lengths at intersections . Developed traffic signing plans, pavement marking layouts and temporary traffic control plans.
10/10 – 7/15	Barriere Road Feasibility Study/Traffic Study, US Department of Defense, Plaquemines Parish, LA. <i>Civil/Traffic Engineer.</i> Responsible for the geometric layout and design of the realignment alternatives of Barriere Rd. between LA 23 to the US Naval Air Station. Developed and reviewed traffic analysis for arrival and departure patterns for the South US Naval Air Station entrance gates.

Firm employed by: **ARCADIS**

Name	Max Aguirre, PhD, PE, PTOE, RSP2I	Years of relevant experience with this employer	6
Title	Transportation Engineer	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization	PhD / 2018 / Engineering Science, LSU MS / 2015 / Construction Management, LSU BS / 2013 / Civil Engineering, LSU		
Active registration number / state / expiration date	PE. 47579 / LA / 09/30/2027; PTOE #5291 / USA / Exp. 7/2028; RSP2I #182 / USA / Exp. 7/2027		
Year registered	2023	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities	Road Design & Traffic Services		
	Dr. Aguirre is a Professional Engineer specializing in traffic engineering studies and design. Dr. Aguirre has experience working on projects for Louisiana Department of Transportation and Development (LADOTD) pertaining to traffic and safety studies, Stage 0 feasibility studies, pedestrian and bicycle improvements, permanent signing design, signal design, and NEPA studies. He is also familiar with the Highway Capacity Manual, Highway Safety Manual, MUTCD, and AASHTO "Green Book". Dr. Aguirre is also knowledgeable in the application of several software programs including Interactive Highway Safety Design Model, SYNCHRO, Highway Safety Software (HSS), GuidSIGN, HCS and MicroStation software.		
Experience dates	Experience and qualifications relevant to the proposed contract		
02/23 – Ongoing	Cross Bayou Bridge Replacement Stage 0 Feasibility Study, LADOTD, Caddo Parish, LA. Traffic Engineer. Conducted feasibility study to develop and evaluate alternatives for the replacement of two existing bridges over Cross Bayou. Developed Stage 0 Documentation including Preliminary Scope and Budget and Environmental Checklists. The next phase of the project will be conducted under the same contract and will include the development of construction plans.		
11/20 – Ongoing	I-10 CMAR, LADOTD, East Baton Rouge Parish, LA. Traffic Engineer. Assisting in traffic engineering tasks including development of permanent signing plans, Interchange Modification Reports, and Transportation Management Plans for the widening of I-10 from LA 415 to Essen Lane and improvements to interchanges along this segment. Assisted in the development of existing condition safety analysis including tasks such as crash data analysis, collision diagrams, and crash report documentation.		
09/19 – Ongoing	I-49 (Ricohoc to Berwick) Supplemental Environmental Impact Assessment, LADOTD, St. Mary Parish, LA. Traffic Engineer. Assist in project tasks involving planning and evaluation of interchange alternatives and associated geometric designs , socio-economic impacts, mobility impacts, and environmental impacts.		
12/19 – 09/25	MoveBR Bluebonnet Blvd (Perkins Road to Picardy Avenue), City of Baton Rouge, East Baton Rouge Parish, LA. Traffic Engineer. The purpose of the project is to widen Bluebonnet Blvd from 4 lanes to 6 lanes between Perkins Road and Picardy Avenue. Responsible for assisting with the development of a traffic design study to develop proposed improvements and project design to maximize operational and safety benefits. Responsible for assisting with the development of signal design and timing plans at 7 intersections within the project limits.		

01/21 – Ongoing	MoveBR Lee Drive (Highland Road to Perkins Road), City of Baton Rouge, East Baton Rouge Parish, LA. Traffic Engineer. The purpose of the project is to provide capacity improvements and pedestrian/bike accommodations along Lee Drive. Responsible for assisting with developing a traffic design study to evaluate and identify the preferred alternative , and developing signal design at the intersections of Highland Road, Boone Drive, and Hyacinth Avenue.
10/19 – 07/21	I-10 New Orleans to Slidell Hard Shoulder Running Feasibility Study, LADOTD, Orleans Parish, LA. Traffic Engineer. Purpose of the project was to evaluate the feasibility of implementing HSR lanes along I-10 to alleviate existing bottlenecks and congestion along critical segments of the corridor. Developed conceptual drawings and typical sections, crash analysis, and predictive safety analysis for proposed Hard Shoulder Running (HSR) alternatives on I-10 between New Orleans and Slidell. Developed benefit-cost analysis for Preliminary Scope and Budget and Environmental Checklists.
02/23 – 05/24	District 04 Pedestrian Safety Improvements, LADOTD, Caddo and Bossier Parish, LA. Traffic Engineer. Responsible for conducting all traffic and safety tasks needed for this Stage 0 Feasibility study to develop and evaluate safety countermeasures to address pedestrian safety needs on seven (7) corridors within Caddo and Bossier Parish. The study methodology was similar to that of a Road Safety Assessment, and included historical crash analysis and on-site field reviews to identify pedestrian safety needs. Countermeasures were developed in close coordination with project stakeholders including City of Bossier, City of Shreveport, NLCOG, Downtown Development District, and District 04. Stakeholders also participated in virtual and on-site field reviews. Study data, methods, and results were documented in Stage 0 Feasibility Reports completed for all 7 study corridors with Preliminary Scope and Budget Checklist and Environmental Checklist. Performed benefit-cost analysis to aid in prioritizing the implementation of countermeasures.
10/18 – 03/21	LA 3040 Corridor Improvements, LADOTD, Houma, LA. Traffic Engineer. Study to identify safety and/or operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA to evaluate reasonable alternatives to address safety and operational needs . Responsible for performing traffic analysis using Highway Capacity Software in accordance with LADOTD TEPR Requirement.
09/19 – 06/21	Baton Rouge Pedestrian and Bicycle Safety Action Plan and Road Safety Assessments, LADOTD, East Baton Rouge Parish, LA. Traffic Engineer. Assisted with the assessment of existing and future safety deficiencies related to pedestrian and bicycle modes at identified high-risk intersections and segments in East Baton Rouge Parish. Assisted with the development of screening criteria to identify high priority locations with a history of pedestrian and/or bicycle crashes. Assisted in the development of Road Safety Assessments (RSAs) at 10 priority locations to identify and evaluate safety deficiencies and develop safety countermeasures to improve safety for pedestrians and bicyclists . Evaluated alternatives to determine and document the feasibility of proposed countermeasures. Developed benefit-cost analysis to prioritize implementation of proposed improvements.
08/19 – 02/20	US 61 Access Management and Corridor Improvements (Airline Hwy), LADOTD, East Baton Rouge Parish, LA. Traffic Engineer. Project purpose was to evaluate the effectiveness of proposed access management improvements along US 61 and identify feasible alternatives to maximize operational and safety benefits. Evaluated the need for pedestrian and bicycle accommodations based on historical crash data and adjacent land use . Assisted in conducting traffic analysis and the development of benefit-cost analysis to compare the effectiveness of the proposed alternatives.

Firm employed by.  Stanley Consultants			Meets MPR No. 8	
Name	Adam Fields, PE		Years of relevant experience with this employer	8
Title	Senior Transportation Engineer		Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization		BS / 2005 / Civil Engineering		
Active registration number / state / expiration date		PE #35614 / LA / 09/30/2026		
Year registered	2010	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Roadway Design		
		Adam is experienced in design for local roads, highways and roundabouts in accordance with LADOTD standards and specifications. His experience has included project/task management, roadway alignment studies; development of horizontal and vertical geometrics; typical sections; intersection details; roadway drainage calculations, earthwork design; development of traffic control and staging plans, roadside safety features and development of quantities, technical specifications, and construction cost estimates. He is skilled in development of three-dimensional roadway models and roadway design utilizing MicroStation, AutoCAD, Civil 3D, InRoads and OpenRoads software. Adam has his TCT and TCS certifications.		
Experience Dates		Experience and qualifications relevant to the proposed contract		
10/18 – 04/22		H.010960 LA 30 Roundabouts at Tanger & I-10, LADOTD, Ascension Parish, LA: <i>Civil Engineer</i> responsible for providing oversight for all necessary engineering and related services required for the design of four multi-lane roundabouts along LA 30 at the heavily traversed commercial interchange at I-10 in Gonzales, LA. Adam also provided quality assurance (QA) of typical sections, pedestrian and bicycle design, roadway geometrics, roundabout geometrics, drainage design, and driveway details for this project.		
11/18 – 04/22		H.011137 I-12 LA 1077 to LA 21, DOTD, St. Tammany Parish, LA: <i>Design Lead</i> responsible for horizontal and vertical alignment, typical sections, sequence of construction with minimum temporary traffic control layout and striping according to DOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.		
01/17 – 06/18		Bootlegger Road Mill and Overlay and Bootlegger Road Bridge Design, St. Tammany Parish Government, St. Tammany Parish, LA: <i>Civil Designer</i> responsible for design of approximately three miles of mill and overlay, bridge replacement over Timber Branch, and shared use path connecting LA 1077 to LA 21. Start Date: October 2018 Completed: September 2020		
04/25 - Ongoing		H.016278 US 167 Median Improvements, LADOTD, Lafayette, LA: <i>Project Manager</i> responsible for closely coordinating both internally with design leads and Stanley design staff as well as LADOTD District 03 project managers and design personnel to ensure that the project scope is clearly defined and the project purpose and need and are satisfied completely through the delivery of the construction plans. Duties include conducting scoping and review meetings, email and phone coordination, QAQC review and reporting, delivery of plans and main point of contact responsible for meeting the District's needs.		

10/18 – 11/22	H.011909 US 171 at Boone St. Roundabout, LADOTD, Vernon Parish, LA: <i>Civil Engineer</i> responsible for providing oversight for all necessary engineering and related services required for the design of a multi-lane roundabout along US 171. This project involves engineering and related services to develop construction plans for a multi-lane (Hybrid) roundabout at the intersection of US 171 and Boone Street to allow for improvements to safety and efficiency, while utilizing best access management practices along the corridor. Adam also provided quality assurance (QA) of typical sections, roadway geometrics, roundabout geometrics, drainage design, and driveway details for this project.
09/24 - Ongoing	H.015849 US 190 R-CUT at LA 741, DOTD, St. Landry Parish, LA: <i>Project Manager</i> responsible for closely coordinating both internally with design leads and Stanley design staff as well as LADOTD District 03 project managers and design personnel to ensure that the project scope is clearly defined and the project purpose and need and are satisfied completely through the delivery of the construction plans. Duties include conducting scoping and review meetings, email and phone coordination, QAQC review and reporting, delivery of plans and main point of contact responsible for meeting the District's needs.
05/24 - Ongoing	H.014041 Inter. Imp. on LA 92 at LA 733 & Gallet Rd, LADOTD, Lafayette, LA: <i>Project Manager</i> responsible for the overall IDIQ contract for parishes in LADOTD's District 03. Task Order duties for a roundabout intersection improvement project on LA 92 at LA 733 and realignment of curves on LA 92 at Gallet Road include conducting a pre-design ride of the proposed project, leading manhour proposals and fee estimation for design, holding kickoff meetings and conducting overall coordination between District staff and subconsultants. Tasks are design oversight and QAQC, scheduling, invoicing, and ensuring timely submittal milestone deliveries.
01/23 – 12/25	H.015052 I-20 Widening/Ovrly (Vancil Rd-LA 34), LADOTD, Ouachita Parish, LA: <i>Design Lead</i> responsible for horizontal and vertical alignment, typical sections, sequence of construction with minimum temporary traffic control layout, erosion control layout and permanent pavement markings according to DOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.
01/14 – 11/17	H.013052 LA 442 Tangipahoa River Bridge Replacement, LADOTD, Tangipahoa Parish, LA: <i>Design Lead</i> responsible for horizontal and vertical alignment, typical sections, sequence of construction with minimum temporary traffic control layout and striping according to DOTD specifications, standards and design criteria for emergency replacement of the LA 44 bridge over the Tangipahoa River. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.
01/12 – 02/14	H.003495 I-49 N, Segment K – Phase 1, LADOTD, Caddo Parish, LA: <i>Project Engineer</i> responsible for developing sequence of construction plans, temporary pavement marking layouts for maintenance of traffic during construction, joint layouts and graphical grades, retaining wall layout, and quantities and cost estimates. Design tools used for this project included MicroStation with, Bentley InRoads and Microsoft Excel.
07/11 – 12/13	H.011111 I-49 N, Segment K – Phase 2, LADOTD, St. Tammany Parish, LA: <i>Project Engineer</i> responsible for developing sequence of construction plans, temporary pavement marking layouts for maintenance of traffic during construction, joint layouts and graphical grades, retaining wall layout, and quantities and cost estimates. Design tools used for this project included MicroStation with, Bentley InRoads and Microsoft Excel.

Firm employed by.  Stanley Consultants			Meets MPR No. 8	
Name	Blake Roussel, PE, PMP		Years of relevant experience with this employer	18
Title	Senior Transportation Engineer		Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization		BS / 2003 / Civil Engineering		
Active registration number / state / expiration date		PE #33279 / LA / 09/30/2027		
Year registered	2007	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Roadway Design		
		Blake specializes in managing design teams for the development of transportation infrastructure projects. Over his two-decade career in Louisiana, he has designed or managed 20+ projects for DOTD. His professional experience encompasses project management and construction plan preparation for complete streets and road design projects, in accordance with DOTD plan preparation. Prior to joining Stanley, Blake gained valuable transportation experience employed by DOTD. Blake is a certified Project Management Professional (PMP), which is recognized across the world as the gold standard in project management.		
Experience Dates		Experience and qualifications relevant to the proposed contract		
11/18 – 04/22		H.011137 I-12 LA 21 to US 190, DOTD, St. Tammany Parish, LA: Project Principal responsible for assisting and overseeing portions of the horizontal and vertical alignment design, drainage design, and sequence of construction with minimum temporary traffic control layout and striping according to DOTD specifications, standards and design criteria. Additional responsibilities include standard PM duties including coordination, QC of plans and design, project coordination, and scheduling.		
01/17 – 06/18		Bootlegger Road Mill and Overlay and Bootlegger Road Bridge Design, St. Tammany Parish Government, St. Tammany Parish, LA: Project Principal responsible for the right of way mapping, soil analysis, traffic data inventory, feasibility study, conceptual engineering design, opinion of construction cost, preliminary wetland assessment, and Corps of Engineers (USACE) jurisdictional determination for the mill & overlay and bridge design along a 3-mile segment of Bootlegger Road located in Covington.		
01/23 – 12/25		H.015052 I-20 Widening/Ovrly (Vancil Rd-LA 34), LADOTD, Ouachita Parish, LA: Project Principal responsible for ensuring the project is receiving adequate resources to maintain project schedules and ensuring proper QA/QC procedures are being followed.		
06/15 – 09/23		H.011781 LA 675 & LA 87 Improvements, LADOTD, Iberia Parish, LA: Project Manager responsible for the overall supervision of engineers performing the survey, road design and plan preparation; coordination with the owner; reviewing the plans; checking compliance with the design criteria; and completing all required forms and documents in support of the plan package. Design tools used for this project included MicroStation, Excel, and HYDRWIN.		
10/18 – 03/20		H.012304.5 LCG Road Overlay Program, LADOTD, Lafayette Parish, LA: Project Manager responsible for field surveying and capturing topographic features and measuring CL stationing. Duties also include plan development, determining quantities and pay items according to DOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.		

10/18 – 12/19	H.012861 Prejean Road, DOTD, Lafayette Parish, LA: <i>Project Manager</i> responsible for field surveying and capturing topographic features and measuring CL stationing. Duties also include plan development, determining quantities and pay items according to DOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.
06/18 – 01/21	H.012964 US 61 Bluebonnet Blvd to S. End US 190, LADOTD, East Baton Rouge Parish, LA: <i>Project Manager</i> responsible for the overall supervision of engineers performing the survey, road design and plan preparation; coordination with the owner; reviewing the plans; checking compliance with the design criteria; and completing all required forms and documents in support of the plan package. Design tools used for this project included MicroStation.
03/17 – 08/19	H.009633 LA 67 EBR P/L to 8 Miles North of EB, LADOTD, East Feliciana Parish, LA: <i>Project Manager</i> responsible for the overall supervision of engineers performing the survey, road design and plan preparation; coordination with the owner; reviewing the plans; checking compliance with the design criteria; and completing all required forms and documents in support of the plan package. Design tools used for this project included MicroStation.
10/16 – 09/18	H.009508 LA 2 Caney Creek Bridge to Webster P/L - Pavement Preservation Program, LADOTD, Bossier Parish, LA: <i>Project Manager</i> responsible for the overall supervision of engineers performing the survey, road design and plan preparation; coordination with the owner; reviewing the plans; checking compliance with the design criteria; and completing all required forms and documents in support of the plan package. Design tools used for this project included MicroStation.
06/13 – 04/19	Village De L'est Neighborhood, City of New Orleans, New Orleans, LA: <i>Project Manager</i> responsible for the roadway scoping, pavement rehabilitation design, plan preparation, construction administration, and construction resident inspection for urban local roadways. The scoping phase includes a Project Scope Report based on the results of pavement damage inspection review and assessment and its applicable rehabilitation recommendations. The scoping report includes scoping plans, pavement rehabilitation quantities, pavement damage inspection photos, as well as a written scoping report. Preliminary plan scope of work includes Milling and Asphaltic Concrete (AC) Overlay, AC patching, Portland Cement Concrete Patching, Composite Pavement Patching, driveway repairs, sidewalk repairs, waterline repairs, utility adjustments, and sanitary sewer repairs.

Firm employed by.  Stanley Consultants			Meets MPR No. 8	
Name	Jesse Tisdale, PE		Years of relevant experience with this employer	7
Title	Senior Transportation Engineer		Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization		BS / 2012 / Civil Engineering		
Active registration number / state / expiration date		PE #40972 / LA / 03/31/2027		
Year registered	2016	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Roadway Design		
		Jesse has been responsible for the design and/or project management of roadway projects such as roadway reconstruction, intersection safety projects, turn lane additions, corridor safety projects, and roundabout projects throughout Louisiana. He has completed 14 projects for DOTD. Jesse is proficient in both design and management and can fulfill both roles simultaneously as projects warrant. His design expertise is with roadway/highway design, drainage, environmental permitting, construction sequencing, earthworks and estimating. Jesse has his TCT/TCS certification.		
Experience Dates		Experience and qualifications relevant to the proposed contract		
10/18 – 04/22		H.010960 LA 30 Roundabouts at Tanger & I-10, LADOTD, Ascension Parish, LA: <i>Project Manager/Lead Design Engineer</i> responsible for providing oversight for all necessary engineering and related services required for the design of four multi-lane roundabouts along LA 30 at the heavily traversed commercial interchange at I-10 in Gonzales, LA. Mr. Tisdale also provided QA of typical sections, pedestrian and bicycle design, roadway geometrics, roundabout geometrics, drainage design, and driveway details for this project.		
11/18 – 04/22		H.011137 I-12 LA 1077 to LA 21, DOTD, St. Tammany Parish, LA: Serving as <i>Project Manager</i>, Jesse was responsible for assisting and overseeing the horizontal and vertical alignment design, drainage design, and sequence of construction with minimum temporary traffic control layout and striping according to DOTD specifications, standards and design criteria. His additional responsibilities include standard PM duties including coordination, QC of plans and design, project coordination and scheduling. Design tools used for this project included MicroStation, InRoads, CADConform, Bentley InRoads, DOTD HydrWIN and Microsoft Project.		
04/23 - Present		H.013941 LA 724 Roundabout at Landry Rd; LADOTD; Lafayette Parish, LA - Statewide IDIQ: As the <i>QA/QC Controller</i> on this IDIQ Jesse is responsible for the quality and completeness of the design and construction plans. Additionally, he is the PM for this project providing overall project oversight, budget controls, and coordination with LADOTD.		
11/23 - Present		H.012633 LA 1088 Forest Brook Blvd Roundabout, LADOTD, St. Tammany Parish, LA: As the <i>QA/QC Controller</i> on this IDIQ Jesse is responsible for the quality and completeness of the design and construction plans. Additionally, he is assisting in managing the project as the overall IDIQ PM, while others manage the individual projects.		
10/18 – 11/22		H.011909 US 171 at Boone St. Roundabout, LADOTD, Vernon Parish, LA: <i>Project Manager</i> responsible for assisting design of a three-legged multi-lane roundabout and multiple intersection improvements along US 171. Tasks also include budgeting, project cost estimation, utility coordination, and QA for the design and construction plans. This project involves engineering and related services to develop construction plans for a multi-lane (Hybrid) roundabout at the intersection of		

	US 171 and Boone Street to allow for improvements to safety and efficiency, while utilizing best access management practices along the corridor.
09/24 - Present	H.015849 US 190 R-CUT at LA 741, LADOTD, St. Landry Parish, LA: <i>QA/QC Manager</i> responsible for providing quality control for the project as well as assisting the project manager in coordinating design elements. Also responsible for assisting in making high level design decisions.
05/24 - Present	H.014041 Inter. Imp. on LA 92 at LA 733 & Gallet Rd, LADOTD, Lafayette, LA: <i>QA/QC Lead Engineer</i> responsible for reviewing work products for technical adequacy and completeness, verifying preparation and checking procedures have been followed, reviewing Quality Control Checklists as a discipline approver at each designated quality “checkpoint”, and reviewing design criteria documents for compliance with LA DOTD and AASHTO standards. Also responsible for providing design guidance to the project team as a subject matter expert.
01/23 - Present	H.015052 I-20 Widening/Ovrly (Vancil Rd-LA 34), LADOTD, Ouachita Parish, LA: <i>Project Manager</i> responsible for adherence to scope of work, budget, and schedule requirements. Additional responsibilities include QC/QA and subconsultant coordination.
08/24 - Present	H.015569 LA 44 I-10 Roundabouts, LADOTD, Ascension Parish, LA: <i>Project Manager</i> responsible for providing oversight for all necessary engineering and related services required for the design of three multi-lane roundabouts along the LA 44 corridor at the heavily traversed I-10 interchanges in Gonzales, LA.
10/13 – 04/15	US 11 at Cleo Road Roundabout, LADOTD, St. Tammany Parish, LA: <i>Lead Designer</i> responsible for the design and plan development of a single lane roundabout at US 11 and Cleo Rd. This roundabout design included special design details for the WB-67 design vehicle due to two distribution warehouses located on Cleo Rd. This project additionally involved the design of a 4th leg that is to be built at a later date when private development north of the roundabout is complete.
04/16 – 01/18	Dijon Drive Extension Phase I & II, Confidential Client, East Baton Rouge Parish, LA: <i>PM/Lead Designer</i> responsible for a proposed four-lane divided highway project between Essen Lane and Bluebonnet Boulevard. Project management responsibilities included budget coordination with local, city, and state agencies, design and construction scheduling coordination to prevent conflict from major construction in the surrounding areas, coordination with several private entities and other public departments working on designing or constructing projects in the vicinity of the roadway, and coordinating subsurface drainage to combine roadway drainage and drainage from private properties adjacent to the new roadway. Design responsibilities included the geometric roadway design, roadway modeling, and overseeing drainage design. This was a greenfield project along new alignment.

Firm employed by:



Name	Aidan Carter, PE	Years of relevant experience with this employer	3
Title	Transportation Engineer	Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization	BS / 2018 / Civil Engineering		
Active registration number / state / expiration date	PE #47566 / LA / 09/30/2027		
Year registered	2023	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Roadway Design Engineer		

Experience dates	Experience and qualifications relevant to the proposed contract
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Aidan is skilled in geometric design, plan preparation, technical writing, and budgetary estimation. He performs as the Road Designer/Modeler in the transportation group and has prepared conceptual layouts and drawings for roadways and intersections. He is proficient in industry-leading software, including Microstation, InRoads, OpenRoads Designer, and Global Mapper, allowing him to produce highly accurate and compliant designs. Aidan has his TCT, TCS and Flagger certifications.

04/23 - Ongoing	H.013941 LA 724 Roundabout at Landry Rd, LADOTD, Lafayette Parish, LA: <i>Lead Designer</i> responsible for lead design and plan production. This project includes the construction of a single lane Roundabout at the intersection of LA 724 and Landry Road near Lafayette, Louisiana. Drainage structures will be installed to accommodate additional runoff due to the road work. Mr. Carter is responsible for the design of horizontal/vertical geometry, corridor modeling, and subsurface/open channel drainage systems. Mr. Carter utilized Autoturn as well as Fastest Path procedures in order to ensure that the roundabout safely accommodates the anticipated design traffic. Mr. Carter is also responsible for the composition of the construction plan set that clearly communicates his designs while complying with DOTD's CAD standards.
11/23 - Ongoing	H.012633 LA 1088 Forest Brook Blvd Roundabout, LADOTD, St. Tammany Parish, LA: <i>Lead Designer</i> responsible plan production. The project includes the construction of a multi-lane roundabout at the intersection of LA 1088 and Forest Brook Boulevard in Mandeville, Louisiana. Drainage improvements will be made to accommodate the road work. This project is part of 3-mile corridor improvement plan, and straddles two other projects being designed simultaneously by other firms. Close coordination is required to ensure a product with consistent design intent and appearance. Mr. Carter is responsible for the design of horizontal/vertical geometry, drainage design, and corridor model. Mr. Carter is also responsible for the USACE permits required due to the project's proximity to the Coastal Protection Zone. Lastly, Mr. Carter is responsible for leading a small team in plan production in order to produce a clear set of construction plans that comply with DOTD's CAD standards.
09/24 - Ongoing	H.015849 US 190 R-CUT at LA 741, LADOTD, St. Landry Parish, LA: <i>Engineer</i> responsible for design support of roadway design. Mr. Carter helped perform the horizontal and vertical design for a J-Turn. He used Autoturn to model the swept path of the design vehicle so the design vehicles were capable of traversing the J-Turn without off-tracking.
05/24 - Ongoing	H.014041 Inter. Imp. on LA 92 at LA 733 & Gallet Rd, LADOTD, Lafayette, LA: <i>QA/QC Engineer</i> responsible for review of horizontal geometry including high-speed roundabout approaches, horizontal realignment, and superelevation transitions.

	The project is near Milton, Louisiana and includes the construction of an off-alignment 3-leg roundabout, remediation of substandard horizontal curvature, and the reconstruction of turnouts to improve intersection skew angles. The project area contains various space constraints including multiple significant trees, sizable underground pipelines, an underground gasoline storage tank, and a church.
01/23 – 12/25	H.015052 I-20 Widening/Ovrly (Vancil Rd-LA 34), LADOTD, Ouachita Parish, LA: <i>Engineering and Design Support</i> responsible for aiding in the design of the widening/overlay of a 4-mile stretch of I-20 in West Monroe, Louisiana. The purpose of this project is to improve highway capacity by widening to the inside and install a median barrier wall. A portion of the project is being fully reconstructed due to insufficient pavement structural capacity, and drainage will be modified to accommodate changes to the corridor.
08/24 - Ongoing	H.015569 LA 44 I-10 Roundabouts, LADOTD, Ascension Parish, LA: <i>Project Engineer</i> responsible for the design of three multi-lane roundabouts along the LA 44 corridor at the heavily traversed I-10 interchanges in Gonzales, LA. The project will replace two slab span bridges, and construct pier protection at the I-10 underpass as well as at a transmission tower. The corridor crosses a significant pipeline servitude containing at least 17 pipelines. Responsible for the design of the roadway geometry and drainage.

Firm employed by:



Name	Aidan Eymard, PE	Years of relevant experience with this employer	1
Title	Senior Transportation Engineer	Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization	BS / 2017 / Civil Engineering		
Active registration number / state / expiration date	PE #46220 / LA / 03/31/2028		
Year registered	2021	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Roadway Design Lead		

Experience dates	Experience and qualifications relevant to the proposed contract
	Aidan manages transportation projects, including roundabouts, interstate widening bridge and replacements. He oversees design units, makes engineering decisions, manages projects, and reviews construction plans for quality assurance and quality control. Aidan is proficient in MicroStation, InRoads, ProjectWise, and Bluebeam, and is familiar with DOTD processes. He has worked on projects such as H.010909 (LA 44 widening and roundabout at LA 941) and H.007300 (Kansas-Garrett Connection & I20 Improvements). Aidan's experience spans multiple roles at the Louisiana Department of Transportation and Development. He has performed work as a plan development engineer and road design engineer intern/engineer. In these roles, Aidan has developed expertise in computer-aided design, drainage design, item quantification, cost estimation and plan revisions. Aidan has demonstrated his capabilities through significant projects and achievements. He was the engineer of record for updating the DOTD Standard Plan for driveways and presented at the 2025 Louisiana Transportation Conference on design complexities and project coordination efforts during the plan development of H.007300.
04/23 - Ongoing	H.013941 LA 724 Roundabout at Landry Rd, LADOTD, Lafayette Parish, LA: Project Manager responsible for providing oversight for all necessary engineering and related services with LADOTD coordination. Additionally, he is responsible for the quality and completeness of the design and construction plans.
11/23 - Ongoing	H.012633 LA 1088 Forest Brook Blvd Roundabout, LADOTD, St. Tammany Parish, LA: Project Manager responsible for providing oversight for all necessary engineering and related services with LADOTD coordination. Additionally, he is responsible for the quality and completeness of the design and construction plans.
04/25 - Ongoing	H.016278 US 167 Median Improvements, LADOTD, Lafayette, LA: Design Engineer responsible for creating the existing & design drainage maps for the project and design & analyze the existing & proposed drainage structures within the project area.
10/24 - Ongoing	H.014056, H.005184, and H.014054 I-69 Frontage Roads, LADOTD, Stonewall, LA: Project Manager responsible for the overall project. His responsibilities include input on all aspects of the design. Additionally, he is responsible for management of the sub consultants, schedules, budgets, coordinating with DOTD for stakeholders (the port, railroad, and others), and working with DOTD to deliver the project.
07/21 – 07/25	LA 3125, LA 3274 Roundabout, LADOTD, St. James Parish, LA: Project Manager and Roadway Designer responsible for drafting and being the Engineer of Record for a complete full-sized roadway construction plan set in accordance with LADOTD standards. This involved making the title sheet, common sections, summary tables, plan & profiles, drainage maps, geometric details, graphical grade layout, pavement marking layout, permanent sign layout, suggested sequence of construction, and cross sections in MicroStation. It also involved making a construction cost estimate. Sections in

	MicroStation along with the development of a construction cost estimate. A three-dimensional roadway model was developed in InRoads with multiple horizontal and vertical alignments; the proposed drainage system was developed in HYDRWIN. Additional tasks included requesting a budget, filling out state authorization checklists and requesting updates to the Highway Priority Program. He was also responsible for completing design reports, design exceptions and other documents required by LADOTD. This project consisted of installing a single-lane roundabout with bypass lanes at the intersection of LA 3125 and LA 3274.
04/21 – 07/25	Kansas-Garrett Connection & I-20 Improvements, LADOTD, Ouachita Parish, LA: <i>Roadway Designer</i> responsible for drafting and being the Engineer of Record for LADOTD's portion of a full-sized roadway construction plan set in accordance with LADOTD standards. This involved the production of the typical sections, guard rail layout, summary tables, plan and profiles, drainage maps, pavement markings layout, construction access detail, and cross sections in MicroStation along with the development of a construction cost estimate. A three-dimensional roadway model was developed in InRoads with multiple horizontal and vertical alignments; the proposed drainage system was developed in HYDRWIN and the FHWA Hydraulic Toolbox. He was also responsible for writing design reports, design waivers and other documents required by LADOTD. He also worked with many consultants who were responsible for other parts of the project. This project consisted of widening I-20 to six lanes with a concrete median barrier from US 165 to the east of Garrett Road.
07/18 – 05/21	LA 44, Widening and Roundabout at LA 941, LADOTD, Ascension Parish, LA: <i>Roadway Designer</i> responsible for drafting a complete full-sized roadway construction plan set in accordance with LADOTD standards. This involved making the title sheet, common sections, summary tables, plans and profiles, drainage maps, geometric details, graphical grade layout, pavement marking layout, permanent sign layout, suggested sequence of construction, and cross sections in MicroStation. It also involved making a construction cost estimate. A three-dimensional roadway model was developed in InRoads with multiple horizontal and vertical alignments; the proposed drainage system was developed in HYDRWIN. He was also responsible for completing design reports, design waivers, design exceptions and other documents required by LADOTD. This project consisted of widening LA 44 to four lanes with the installation of a multi-lane roundabout at the intersection of LA 941.

Firm employed by:



Name	BriAnne Turpin, PE	Years of relevant experience with this employer	9
Title	Senior Transportation Engineer	Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization	BS / 2006 / Civil Engineering		
Active registration number / state / expiration date	PE #51481 / AZ / 09/30/2028		
Year registered	2010	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Roadway Lighting Task Lead		

Experience dates	Experience and qualifications relevant to the proposed contract
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BriAnne has professional experience with transportation planning, design, and traffic engineering, including the preparation of project assessments, safety studies, alternative development, and evaluation for retrofitting or enhancing multi-modal accommodations. She has managed and participated in the design of signing and pavement marking, traffic signal plans, roadway plans, and maintenance of traffic and construction sequencing. She has experience working with a variety of jurisdictions on projects involving various roadway classifications, different land uses, levels of intensity, and degrees of complexity.

09/21 - Ongoing	SR 101L, 75th Ave to I-17 GP Lanes Final Design; Arizona Department of Transportation; Phoenix, AZ: <i>Project Principal</i> responsible for all lighting elements including upgrading existing median lights to LED; underdeck lighting upgrades; and ramp lighting improvements. New underdeck lighting was designed for existing overpass structures that did not include lighting infrastructure. Full scope was completion of the DCR and final design for a \$150 million project to construct over six miles of GP and auxiliary lanes, I-17 /SR 101L system TI Ramp WN conversion from one lane to two, and improvements to create a triple left-turn from SB 75th Avenue to EB SR 101L.
03/23 – 05/23	DC Ranch Speed Study Update; DC Ranch; Scottsdale, AZ: <i>Project Manager</i> responsible for overall traffic engineering services to review four intersections within DC Ranch for roadway characteristics, speed statistics, and making a presentation to the DC Ranch community association board with final recommendations. Existing signing, pavement marking, traffic and speed counts along the North Desert Camp Drive and Windgate Pass Drive were compared to the August 2016 study with the goal to improve traffic safety and reduce vehicle speeds. The City of Scottsdale traffic engineering guidelines were used in the assessment.
07/20 - Ongoing	SR 101L, 75th Ave to I-17 GP Lanes: Arizona Department of Transportation; Phoenix, AZ: <i>Lead Traffic Engineer</i> responsible for managing the development of the traffic model and preliminary traffic report that presents existing traffic volume data, existing crash data, traffic volume projections for the design year 2040, as well as design year roadway capacity calculations the general purpose lane widening project. BriAnne coordinated with the ADOT, COP, City of Glendale, MAG and subconsultants to ensure all requirements are being met to move project along. She is also responsible for managing the development of the traffic engineering final design elements for the SR 101L general purpose lane widening project including the traffic control, signing and pavement marking and lighting plans, specifications and estimate.
09/18 – 04/21	CNLV Alexander Road, Simmons to N 5th; City of North Las Vegas; North Las Vegas, NV: <i>Lead Traffic Engineer</i> responsible for the design of the roadway lighting for this roadway widening project. Roadway lighting design included the installation of new LED fixtures along existing street light poles to meet current City of North Las Vegas Standards.

Firm employed by:



Name	Caitlin Marks, PE	Years of relevant experience with this employer	1
Title	Senior Transportation Engineer	Years of relevant experience with other employer(s)	9
Degree(s) / Years / Specialization	BS / 2015 / Civil Engineering		
Active registration number / state / expiration date	PE #44794 / LA / 03/31/2027		
Year registered	2020	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Roadway Design Engineer		
Experience dates	Experience and qualifications relevant to the proposed contract		
	Caitlin is experienced in the technical design of state and local highways in accordance with DOTD roadway design of this standards and specifications. Her experience has included development of horizontal and vertical geometrics, typical sections, intersection geometrics, roadway drainage design, pavement marking design, sequence of construction design, pavement preservation design, quantity estimates, and construction estimates. She is skilled in the development of three-dimensional roadway models and roadway design utilizing MicroStation, Inroads, and OpenRoads software. Caitlin has her Flagger certification.		
04/25 - Ongoing	H.016278 US 167 Median Improvements, LADOTD, Lafayette, LA: <i>Lead Design Engineer</i> responsible for designing horizontal and vertical geometry, typical sections, summary tables, drainage calculations, and suggested sequence of construction. She modeled and created cross sections, budgeted the cost estimate and produced construction plans in accordance with DOTD standards.		
09/24 - Ongoing	H.015849 US 190 R-CUT at LA 741, LADOTD, St. Landry Parish, LA: <i>Lead Design Engineer</i> responsible for designing horizontal and vertical geometry, typical sections, summary tables, drainage calculations and suggested sequence of construction. She modeled and created cross sections, budgeted the cost estimate and produced construction plans in accordance with DOTD standards.		
05/24 - Ongoing	H.014041 Inter. Imp. on LA 92 at LA 733 & Gallet Rd, LADOTD, Lafayette, LA: <i>QA/QC Reviewer</i> responsible for reviewing plan set.		
04/25 - Ongoing	H.016110 LA 31 Roadway Reconstruction LA 94 to LA 341, LADOTD, Breaux Bridge, LA: <i>Lead Designer</i> responsible for designing the typical sections, creating and calculating summary tables, budgeting the cost estimate and producing construction plans in accordance with DOTD pavement preservation standards.		
10/24 - Ongoing	H.015949 LA 335 East Junction LA 694 to LA 14, LADOTD, Vermillion Parish, LA: <i>Lead Designer</i> responsible for designing the typical sections, creating and calculating summary tables, budgeting the cost estimate and producing construction plans in accordance with DOTD pavement preservation standards.		
10/24 - Ongoing	H.014824 US 90 Wax Lake, LADOTD, Jeanerette, LA: <i>Lead Designer</i> responsible for designing horizontal and vertical geometry, typical sections, summary tables, drainage calculations, and suggested sequence of construction. She modeled and created cross sections, budgeted the cost estimate and produced construction plans in accordance with DOTD standards.		

10/24 - Ongoing	H.015847 US 90 Roadway Reconstruction LA 668 to LA 318, LADOTD, Centerville, LA: <i>Lead Designer</i> responsible for designing horizontal and vertical geometry, typical sections, summary tables, drainage calculations and suggested sequence of construction. She modeled and created cross sections, budgeted the cost estimate and produced construction plans in accordance with DOTD standards.
04/19 – 10/19	H.008312 LA 1042 Bridges Near Greensburg, LADOTD, Greensburg, LA: This project consisted of bridge replacements at three sites along LA 1042. Caitlin was responsible for designing horizontal and vertical geometry, typical sections, summary tables, and drainage sheets. She modeled and created cross sections, developed diversion and detour sheets, budgeted the cost estimate, and produced construction plans in accordance with LaDOTD standards. During construction, she performed construction support by responding to RFI's and completing change orders and revisions.
12/18 – 04/19	H.012276 US 61, J-Turns at Thomas Rd, LADOTD, Baton Rouge, LA: This project consisted of adding access management on US 61 by constructing a directional crossover with median U-turns at Thomas Rd. Caitlin was responsible for performing construction support by completing change orders. This included the redesign of the J-turns and the adjustment of quantities and cost estimates.
12/22 – 02/25	Harveston Bluebonnet Improvements, East Baton Rouge (EBR) Parish Baton Rouge, LA: This project consisted of the design of 2 roundabouts along Bluebonnet Blvd. Caitlin was responsible for the design of the sub-surface drainage for the proposed roundabouts in accordance with East Baton Rouge (EBR) standards. This included production of drainage plan and profile sheets, drainage maps, drainage calculations, and the drainage report. She also aided in the fastest path reviews and provided QA/QC support.

Firm employed by:



Name	Luis Santana, PE		Years of relevant experience with this employer	20
Title	Senior Structural Engineer		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			BS / 2008 / Civil Engineering	
Active registration number / state / expiration date			PE #42265 / LA / 03/31/2028	
Year registered	2017	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Bridge Design Engineer	
Experience dates	Experience and qualifications relevant to the proposed contract			
	Luis's engineering experience includes designing and managing the necessary structural work for bridges, levees and walls along the Gulf Coast. His expertise includes off-system bridge design projects for LA DOTD, structural inspections (above and underwater), bridge load ratings, shoring plans, dewatering, site demolition planning, and LEED experience. He has designed bridges, foundations, retaining walls and many other ancillary structural elements. His structural background includes concrete, steel, wood, masonry, sheet piles, and pile foundations design of bridges, and hydraulic and non-hydraulic structures. His software experience includes Microsoft programs, MathCad, STAAD Pro, CPGA/ CPGC/ CPGG from USACE, Cwalshet, MicroStation, and AutoCAD.			
09/19 – 04/22	H.013866 I-12, LA 21 to US 190 Widening Design, LADOTD, St. Tammany Parish, LA: <i>Structural Engineer</i> responsible for the design of roadway median concrete barrier walls along the I-12 corridor. The project included the design of 36", 48", and 54" barriers walls. The design analyzed the stability of the barrier walls for vehicle impacts and traffic live loads and then developed the reinforced concrete design for each of the barrier types. The project also included an analysis of the Tchefuncte River Bridge piling for boat impact.			
01/17 – 09/20	Bootlegger Rd – Bridge Replacement and Road Mill and Overlay, St. Tammany Parish Government, St. Tammany Parish, LA: <i>Structural Engineer</i> responsible for the design and plan productions for the bridge replacement of the existing timber bridge. The new bridge consisted of a three span 70ft long continuous concrete flat slab superstructure founded on concrete piles and pile caps. The new bridge footprint was widened to accommodate two 12-ft lanes with 4-ft shoulders and a 12-ft shared-use path. The new bridge was lengthened to match new H&H requirements and to allow for new piles to be driven to clear the existing piles.			
11/24 - Present	H.015545 Stoney Point Burch Bridge Over Drainage Bayou, DOTD, East Baton Rouge Parish, LA: <i>Structural Engineer</i> responsible for the design and plan development for bridge replacement. The project consists of replacing the existing bridge using the LADOTD standard bridge details. The project also included minor improvements to the shoulders and approach roadway to tie the new bridge to the existing roadway. The new bridge carries two 11ft lanes (one lane in each direction) of Stoney Point Burch, two 3ft shoulders, and two standard 32" barrier railings. The new bridge consists of a 6-span cast-in-place flat slab superstructure founded on concrete pile caps and 16" prestressed concrete piles. The project included the load rating of the bridge and did not involve any utility coordination.			
11/24 - Present	H.015550 Pride-Baywood Rd Over Mill Creek, DOTD, East Baton Rouge Parish, LA: <i>Structural Engineer</i> responsible for the design and plan development for bridge replacement. The project consists of replacing the existing bridge using the LADOTD standard bridge details. The project also included minor improvements to the shoulders and approach roadway to tie the			

	new bridge to the existing roadway. The new bridge carries two 11ft lanes (one lane in each direction) of Pride-Baywood Road, two 3ft shoulders, and two standard 32" barrier railings. The new bridge is skewed to accommodate the direction of Mill Creek and consists of a 5-span cast-in-place flat slab superstructure founded on concrete pile caps and 16" prestressed concrete piles. The project included the load rating of the bridge and did not involve any utility coordination.
05/19 – 07/20	H.013817 LA 117 Between LA 8 and LA 118 Bridge Study, Vernon Parish, LA: <i>Structural Engineer</i> responsible for the structural inspection, assessment, and development of conceptual plans of five bridges along the LA 118 corridor. As part of the project, the existing bridges were evaluated for either widening or replacement to accommodate the proposed roadway improvements. The existing bridges consisted of two timber bridges and three concrete flat slab bridges. The bridges ranged in span numbers from two spans to ten spans with a typical span length of 20-ft. Each bridge has two alternatives to match the roadway improvements. The timber bridges were recommended for replacement with concrete flat slab bridge founded on new concrete piles. The existing concrete bridges were recommended for widening for most alternatives. One of the concrete bridges were recommended for replacement by box culvert due to an extreme vertical profile change.
01/23 - Present	H.015052 I-20: Widening/Ovrly (Vancil Rd-LA 34), DOTD, Ouachita Parish, LA: <i>Structural Engineer/Task Lead</i> responsible for the design and plan development of roadside median barriers and overhead sign structures to accommodate design widening throughout the I-20 corridor. The median barrier walls consist of both single and double faced concrete barrier walls used for grade separated roadway. The barrier walls will also include several sections used to transition between the single to double face sections. The overhead sign structures will utilize standard truss arms with modified uprights for either mounted onto the median barriers/foundation or to have independent foundations. The design will utilize requirements as indicated in the LADOTD Bridge Manual and AASHTO guidelines.
01/20 – 09/20	Runway 13/31 Threshold Recovery, Baton Rouge Metropolitan Airport, Baton Rouge, LA: <i>Structural Engineer.</i> Stanley Consultants provided engineering design and construction administrative services for the Runway 13/31 Safety Area Improvements and Threshold Recovery. Stanley Consultants provided engineering design and construction administrative services for the Runway 13/31 Safety Area Improvements and Threshold Recovery.
05/13 – 01/16	US 41 Design-Build Pursuit, Florida Department of Transportation, District 1, FL: <i>Structural Engineer</i> responsible for the design of a bridge over Henderson Creek (aquatic reserve/ outstanding Florida water), three bridge culverts and approximately $\frac{3}{4}$ of a mile of special design sound barrier walls. The bridge was designed as a flat slab continuous three-span structure. The culvert bridges were designed as cast-in-place type structures. The sound barrier walls were designed to have a special bottom panel acting as a retaining wall. Stanley Consultants engineers prepared the drainage design and utilities improvements and relocation design for this 3.5-mile-long project.

Firm employed by:



Name	Ed Wedge, PE	Years of relevant experience with this employer	5
Title	Principal Civil Engineer	Years of relevant experience with other employer(s)	34
Degree(s) / Years / Specialization	BS / 1985 / Civil Engineering		
Active registration number / state / expiration date	PE #24613 / LA / 09/30/2026		
Year registered	1992	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Roadway Design Liason		

Experience dates	Experience and qualifications relevant to the proposed contract
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As former Deputy Chief Engineer for the DOTD, Ed has a thorough understanding of policy, standards and processes required to perform as an engineering consultant working for the DOTD. He is knowledgeable about DOTD program management and development with respect to the environment, project design and management, construction traffic engineering, system preservation and improvements of highway bridges. While working at DOTD, Ed managed the Traffic Section, Construction and Consultant Contracts, Environmental, and Project Development for roads, bridges, programs, geotechnical, right-of-way and survey.

01/13 – 06/21

LADOTD Deputy Chief Engineer, LADOTD, Baton Rouge, LA: Administered all matters, including engineering, related to the programs of the state of Louisiana with respect to the environment, project design and management, construction, traffic engineering, system preservation and regulation of highways and bridges, and other special programs as may be directed by DOTD Chief Engineer or DOTD Secretary. Assisted in the approval process of all plans, specifications, and estimates for the construction of all facilities and projects for which the office is responsible. Oversaw four direct reports with responsibilities in the areas of highways and bridges. Specifically, the Traffic Section, the Contracts Section (construction and consultant), the Environmental Section, and the Project Development Division (Road, Bridge, Project Management, Geotechnical, R/W, Survey). This included planning, organizing and evaluating the respective missions and activities of each which includes approximately 360 staff members. Routinely conferred with Assistant Secretaries, DOTD Division Chiefs, District/Section Administrators and managers to coordinate work efforts, communicate operational and managerial needs, utilize resources, eliminate duplication of efforts, and facilitate achievement of the Department's overall goals. Participated in conferences with other state and federal agency officials to correlate administrative and operational programs.

04/11 – 01/15

LADOTD Project Management Director (Engineer 8 DOTD), LADOTD, Baton Rouge, LA: Directed implementation and execution of DOTD's Project Management Section. Coordinated with Chief Engineer, Project Development Chief, Project Delivery Steering committee, and Program Managers to ensure timely project delivery. Directed a staff of PMs responsible for high risk, technical, complex, environmental sensitive, regionally important and schedule constrained projects.

07/08 – 04/11

LADOTD Contracts Administrator (Engineer 8 DOTD), LADOTD, Baton Rouge, LA: Section Head over Consultant Contracts, Contracts and Specifications and Project Control. Monitored the processes and procedures of the Consultant Contract Services Unit, which is responsible for all contract and procurement actions for planning, environmental, engineering, and construction engineering consultant services. Monitored the processes and procedures of the Contracts & Specifications unit which is responsible for developing the construction specification package and the construction proposal; responsible for

	advertising projects for construction bids, issuing addenda, and assembling final contract documents after award. Monitored the processes and procedures of the Project Control unit which is responsible for managing and operating DOTD Construction Bid letting process in accordance with federal requirements and the state public bid law. Met and conferred with the Chief Engineer, participated in meetings with federal officials, consultants, contractors, and other stakeholders relative to the operations of Contract Services.
06/06 – 07/08	LADOTD Consultant Contract Services Administrator (Engineer 7 DOTD) at Louisiana Department of Transportation & Development, Baton Rouge, LA: Provided or recommended policy relative to the procurement of consultant engineer and related contract services, determined compensation for those services, and processed all contract actions for those services. Counseled PMs and other department personnel to provide assistance and guidance concerning the procurement process and in the proper management of engineering and related services contracts. Monitored the consultant evaluation system. Evaluated the qualifications of firms competing for engineering and related services projects. Chair of the Consultant Selection Committee. Presented the short-listed firms to the Secretary for final selection. Met with representatives of consultant engineering firms to provide feedback, information on the selection process and to provide answers to specific questions concerning selection and contract issues.
07/01 – 06/06	LADOTD Engineer 6 – Road Design at Louisiana Department of Transportation & Development, Baton Rouge, LA: Supervised all aspects of preconstruction engineering performed by consulting engineers and in house design staff. This supervision included providing guidance in all areas of plan preparation including hydraulic design, geometric design and ensuring conformance with the AASHTO “Green Book”. The range of projects included design of freeways, urban arterials, rural collectors, and major and minor bridge replacement projects.
05/00 – 07/01	LADOTD Engineer 6 – Office of Planning and Programming at Louisiana Department of Transportation & Development, Baton Rouge, LA: This position was created to provide the feasibility, scope and budget of new construction and reconstruction projects. Prepare alignment studies. Monitors the scope and estimated costs of projects during plan development. Reviews and makes recommendations regarding requested changes in the scope and/or budget for projects in plan development.
02/92 – 05/94	LADOTD Design Engineer – Road Design at Louisiana Department of Transportation & Development, Baton Rouge, LA: Supervised a design squad, check design calculations and detail drawings Reviews plans for completeness. Reviews and approves plans and specifications submitted by consultant engineers.

Firm employed by:



Name	Hannah Newhard, PE	Years of relevant experience with this employer	12
Title	Transportation Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS / 2015 / Civil Engineering		
Active registration number / state / expiration date	PE #69331 / AZ / 09/30/2028		
Year registered	2019	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Roadway Lighting Engineer		
Experience dates	Experience and qualifications relevant to the proposed contract		



Hannah is an experienced traffic engineer responsible for authoring traffic engineering studies emphasizing traffic impact studies and the design of signing and pavement marking, roadway lighting, traffic signals, rapid rectangular flashing beacons (RRFB's), and traffic control. She is proficient in creating sign formats using SignCAD. Hannah has prepared street lighting and intersection lighting plans and plans for retrofitting existing lighting systems with LED luminaires. She is proficient in completing photometric calculations using AGI32 lighting analysis software as well as completing voltage drop calculations. Hannah has experience working on projects for state DOT's as well as a variety of local municipalities and counties.

07/20 – 08/20

NE 10th Ave Lighting Design; ASA Consultants, Inc.; Miami, FL: *Traffic Engineer* responsible for designing the street lighting in accordance with the recommended lighting criteria set forth in the current edition of AASHTO's Roadway Lighting Design Guide and the current Florida Power and Light's LED Catalog. Hannah performed photometric calculations using AGI32 lighting software for LED luminaires to ensure that the luminaires met the design criteria.

07/19 – 10/22

SR 15 from South of Shirley Drive to East of Main Street; Florida Department of Transportation; District 4; Palm Beach, FL: *Transportation Engineer* responsible for designing corridor lighting, intersection lighting, and mid-block pedestrian crossing lighting that met the recommended lighting criteria set forth in the current FDOT Design Manual Chapter 231 with LED luminaires from Florida Power and Light's LED Catalog. She performed photometric calculations utilizing AGI32 lighting software to ensure the luminaires met the design criteria and completed the Lighting Design Analysis Report.

07/19 – 03/22

SR 76 from North of Cabana Point Circle to SR 5/US 1; Florida Department of Transportation; District 4; Martin and Palm Beach Counties, FL: *Transportation Engineer* responsible for designing the retro-fit intersection lighting that met the recommended lighting criteria set forth in the current FDOT Design Manual Chapter 231 with LED luminaires that met FDOT and FPL specifications. She performed photometric calculations utilizing AGI32 lighting software to ensure the luminaires met the design criteria and completed the Lighting Design Analysis Report including calculating voltage drops for each lighting circuit.

02/18 – 02/22

SR 9/I-95 at SR 804/Boynton Beach Boulevard Interchange Design Services; Florida Department of Transportation; District 4; Boynton Beach, FL: *Transportation Engineer* responsible for designing the retro-fit intersection lighting and corridor lighting that met the recommended lighting criteria set forth in the current FDOT Design Manual Chapter 231 with LED luminaires that met FDOT and FPL specifications. She performed photometric calculations utilizing AGI32 lighting software so that the luminaires met the design criteria. She also completed the Lighting Design Analysis Report including calculating voltage drops for each circuit.

Firm employed by:



Name	Jared Blohowiak, PE	Years of relevant experience with this employer	8
Title	Transportation Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS / 2017 / Civil Engineering		
Active registration number / state / expiration date	PE #46547 / LA / 09/30/2026		
Year registered	2022	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Roadway Drainage Design Lead		
Experience dates	Experience and qualifications relevant to the proposed contract		
	Jared's roadway experience includes working on DOTD projects with oversight by several professional engineers. He has been responsible for the design of guard rails, drainage design with HYDRWIN, typical section design, geometric design, permanent signage and striping design, site plans, and the accurate and precise tabulation of materials and services required. Jared is often responsible for detailed corrections and adjustments to plan sets and for ensuring that plan sets comply with DOTD specifications and standards. He has created and manipulated 3D surfaces, models, alignments, cross sections, and profiles to describe new and existing ditches, and roadways using Inroads and Openroads software. Jared has his TCT/TCS and Flagger certifications.		
10/18 – 04/22	H.010960 LA 30 Roundabouts at Tanger & I-10, LADOTD, Ascension Parish, LA: <i>Engineer</i> responsible for assisting with all necessary engineering and related services required for the design of four multi-lane roundabouts along LA 30 at the heavily traversed commercial interchange at I-10 in Gonzales, LA. Assisted with QA of typical sections, pedestrian and bicycle design, roadway geometrics, roundabout geometrics, drainage design, and driveway details for this project.		
11/18 – 04/22	H.011137 I-12 LA 1077 to LA 21, LADOTD, St. Tammany Parish, LA: <i>Engineer</i> responsible for assisting with drafting of typical section sheets, quantity tables, guardrail layout designs, plan/profile sheets, signing and striping sheets using CADConform and MicroStation. Responsible for designing guardrail layouts and quantity calculations. Jared also assisted with the development of cost estimates. Responsible for following the Stanley Consultants QA/QC plan.		
01/17 – 06/18	Bootlegger Road Mill and Overlay and Bootlegger Road Bridge Design, St. Tammany Parish Government, St. Tammany Parish, LA: <i>Engineering Intern</i> responsible for assisting with the design of a three-legged multi-lane roundabout and multiple intersection improvements along US 171.		
04/23 - Ongoing	H.013941 LA 724 Roundabout at Landry Rd, LADOTD, Lafayette Parish, LA: Assisted with the hydraulic design of the project by providing methodology and guidance as well as providing QA on the proposed design and hydraulic report.		
04/25 - Ongoing	H.016278 US 167 Median Improvements; LADOTD; Lafayette, LA: <i>Design Engineer</i> responsible for the initial drainage survey evaluation for existing drainage patterns.		
10/18 – 11/22	H.011909 US 171 at Boone St. Roundabout, LADOTD, Vernon Parish, LA: Provided assistance with the design of a three-legged multi-lane roundabout and multiple intersection improvements along US 171. Tasks also include budgeting, project cost estimation, utility coordination, and QA for the design and construction plans.		
09/24 - Ongoing	H.015849 US 190 R-CUT at LA 741, LADOTD, St. Landry Parish, LA: <i>Design Engineer</i> responsible for the design and annotation of the graphical grades for the project to ensure adequate drainage and clear and concise construction notes for the geometry of the r-cut turn lanes.		

05/24 - Ongoing	H.014041 Inter. Imp. on LA 92 at LA 733 & Gallet Rd, LADOTD, Lafayette, LA: <i>Engineer</i> in charge of the roadway geometry design. Ensured that the roadway met the standards for a high-speed approach roundabout and provided multiple alternatives that highlighted the impacts of the design. As the design engineer delegated tasks for the creating of 30% preliminary plans and met with client to discuss project concerns.
01/23 – 12/25	H.015052 I-20 Widening/Ovrly (Vancil Rd-LA 34), LADOTD, Ouachita Parish, LA: <i>Engineer</i> responsible for engineering design services on an interstate improvement project to an section of Interstate 20 in Monroe, Louisiana. Jared's responsibilities include the collection and documentation of sign data along the corridor, analysis of drainage patterns and structures to evaluate potential flooding hazards, and the design of new drainage systems to minimize the hazards for the roadway and neighboring communities.
08/24 - Ongoing	H.015569 LA 44 I-10 Roundabouts, LADOTD, Ascension Parish, LA: <i>Project Engineer</i> responsible for design assistance with a focus on drainage design for three multi-lane roundabouts along the LA 44 corridor at the heavily traversed I-10 interchanges in Gonzales, LA.

Firm employed by:



Name	Josh Olivier, PE	Years of relevant experience with this employer	0
Title	Senior Civil Engineer	Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization	BS / 2017 / Civil Engineering		
Active registration number / state / expiration date	PE #46498 / LA / 09/30/2026		
Year registered	2022	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Bridge Design Task Lead		
Experience dates	Experience and qualifications relevant to the proposed contract		
	Joshua serves as senior bridge engineer on transportation infrastructure projects, specializing in bridge and structural design. Licensed as a Professional Engineer in Louisiana and Mississippi, he has managed complex bridge rehabilitation and replacement initiatives while coordinating design teams and maintaining agency relationships. His professional experience spans concrete bridge design, highway geometric design, and design studies for transportation corridors. Joshua has contributed to a wide range of structural projects ranging from slab spans to girder bridges on spot replacements as well as new alignments. He has managed PPC girder bridge projects under an IDIQ "Critical Projects" contract, overseeing job initiation, agency coordination, and work effort management. His project portfolio includes managing subconsultants on multiple "MOVEBR" ADA enhancement projects as part of the Program Management Team for the City-Parish. Joshua has provided construction support for concrete girder and slab span bridge projects, performing shop drawing reviews, change order revisions, and re-designs on critical path items to maintain project schedules. His structural design work includes design and analysis of PPC Girder bridges utilizing Louisiana "LG" girders, AASHTO girders, and quad beam girders, demonstrating proficiency with specialized bridge types and industry standards.		
	2016 - 2026	H.003047 Pecue Lane/I-10 Interchange, LADOTD, East Baton Rouge Parish, LA: Project Engineer / Project Manager responsible for providing structural bridge design services during the design phase and transitioning to project management responsibilities upon entry into construction support. The project encompasses the design of multiple through and turn lanes along Pecue Lane, new entrance and exit ramps on both the eastbound and westbound directions of I-10, replacement of the existing Pecue Lane slab span bridge over Wards Creek, and widening of the I-10 girder bridge over Wards Creek. Design phase responsibilities included superstructure and substructure design for the eastbound and westbound I-10 concrete girder bridge widenings, as well as an independent check of the Pecue Lane slab span superstructure and substructure design, and load rating assistance for all structures. Upon transitioning to the construction phase, responsibilities expanded to encompass shop drawing review, overall management of construction support services, and coordination of a significant redesign of substructure elements necessitated by complications encountered during pile driving operations.	
	2014 - 2026	H.002960 LA 3213 Gramercy Bridge Approach (Westbank), LADOTD, St. John the Baptist Parish, LA: Project Engineer responsible for delivering comprehensive bridge and structural design services for a new grade-separated overpass along LA 3213. The project involves constructing a new overpass along the existing horizontal alignment to achieve a grade separation over the Union Pacific railroad tracks while remaining within the established right-of-way, and includes the design of an on-site traffic diversion to maintain mobility throughout the construction zone. Responsibilities encompassed final structural	

	design of all superstructure and substructure components in conformance with AASHTO LRFD guidelines and the LADOTD Bridge Design and Evaluation Manual. This project employed the newly developed “LG” prestressed concrete girder system.
2014 - 2026	H.002868 Ambassador Caffery & US 90 Interchange (Future I-49), LADOTD, Lafayette, LA: <i>Project Engineer / Project Manager</i> responsible for delivering structural design services during the design phase and transitioning to project management of bridge-related construction support upon the project’s entry into construction. The project involves the construction of a new, fully access-controlled, grade-separated interchange at the intersection of Ambassador Caffery Parkway (LA 3073) and US 90 (Future I-49 South) in Lafayette Parish. Design phase responsibilities included contributions to superstructure design and an independent check of column bent substructure components. This project utilized the newly developed “LG” prestressed concrete girder system. Construction phase responsibilities included shop drawing review, management of bridge-related construction support activities, and coordination of a significant redesign of substructure components in response to complications arising during pile driving operations.
01/18 – 06/20	H.009276 I-10 Widening, LA 30 to LA 22, LADOTD, Ascension Parish, LA: <i>Project Engineer</i> responsible for providing bridge and structural design services for the widening of an approximately five-mile segment of I-10. The project scope included two girder bridge structures, one slab span structure, and the full replacement of the LA 941 bridge. Primary responsibilities included checking the design of the slab span bridge and the reinforcement design for the new LA 941 structure, as well as preparation of a preliminary bridge quantity estimate for the LA 941 overpass.
01/18 – 05/20	H.004100 I-10 Corridor Improvements (LA 415 to Essen Lane), LADOTD, West & East Baton Rouge Parishes, LA: <i>Project Engineer</i> responsible for contributing to the environmental assessment and preliminary design effort for a major interstate corridor improvement program. Primary contributions included development of proposed vertical profiles for the Perkins Drive through Acadian Throughway segment of the corridor, sizing of preliminary structural elements, and identification of critical clearance control points along this section to evaluate corresponding impacts on the design Profile Grade Line. Also responsible for developing construction sequencing plans for the removal of the straddle bent over the Kansas City Railroad overpass.
2018 - 2019	Multiple Bridge Replacements (Woodland Ridge Blvd. & Congress Blvd.) (08-BR-CI-0025 & 08-BR-PT-0002), LADOTD, East Baton Rouge Parish, LA: <i>Project Engineer</i> responsible for superstructure and substructure design revisions for the Woodland Ridge Boulevard and Congress Boulevard bridge replacement projects. All revised designs were developed in conformance with AASHTO LRFD guidelines and the LADOTD Bridge Design and Evaluation Manual. These projects utilized “Quad Beam” prestressed concrete girder systems.

Firm employed by.



Name	James Kretzler	Years of relevant experience with this employer	15
Title	ASNT Level III	Years of relevant experience with other employer(s)	14
Degree(s) / Years / Specialization	High School Graduate		
Active registration number / state / expiration date	ASNT Level III MT, PT, RT, UT (#186946, expiration 10/31/2030) AWS Certified Welding Inspector (#07020431, expiration 2/1/2028) AAMP Basic Coatings Inspector (#54804, expiration 09/30/2026)		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Sampling Instrumentation & NDT		
Experience dates	Experience and qualifications relevant to the proposed contract		
	Mr. Kretzler is an accomplished inspection and quality assurance professional with more than 25 years of experience in structural steel fabrication, welding inspection, non-destructive examination (NDE), and transportation infrastructure projects. As KTA's NDE Department Manager and Project Manager, he oversees steel and concrete fabrication inspection programs for numerous state transportation agencies and public authorities, including the Connecticut, Pennsylvania, Vermont, Maine, Florida, and Wisconsin Departments of Transportation, as well as the Port Authority of New York and New Jersey. Mr. Kretzler manages NDE operations, business development, personnel training, and Level III certification activities while providing technical leadership, procedure development, inspector qualification, and project oversight for complex bridge fabrication projects. His extensive background includes AWS Certified Welding Inspection, NDT Level III services, fabrication quality assurance, welding procedure qualification oversight, and inspection of fracture-critical bridge components, structural steel, and specialty infrastructure systems. Prior to joining KTA, he performed statewide steel fabrication inspection services for the Pennsylvania Department of Transportation and provided quality assurance oversight on major transportation and U.S. Army Corps of Engineers projects. His combination of technical expertise, management experience, and hands-on inspection knowledge makes him a recognized leader in structural steel fabrication quality assurance and non-destructive testing.		
	07/15 – Ongoing	Various Fabrication Projects for Clients in the Transportation Industry. <i>NDE Department Manager.</i> Managed the NDE Department of the KTA Steel, Concrete, and NDE Group. Responsibilities included financial and operational along with business development, hiring, and training for non-destructive examination services. Provided Level III services internally for KTA and externally for clients that includes writing and reviewing NDE procedures and certifying NDE technicians. Provided also NDE training services for Level II Magnetic particle, Level II Dye Penetrant inspection as well as Ultrasonic Level I and Level II classes covering UT thickness, straight beam, and angle beam inspections.	
	10/21 – 12/21	Various Bridges throughout North Dakota, North Dakota DOT. <i>Project Manager.</i> Managed Phased Array Ultrasonic Testing (PAUT) on various bridges throughout the state. KTA served as a subconsultant to a partnering engineering firm.	
	06/15 – 12/19	I-10 Calcasieu Bridge, LADOTD, Baton Rouge, LA. <i>NDE Supervisor.</i> Supervised the UT inspection of the bridge pins on this structure. Reviewed the inspection data and issued an opinion regarding the condition of the pins. KTA served as a subconsultant to another engineering firm.	
	12/12 – 08/15	Steel Fabrication Inspection Contract, New York DOT, Statewide, NY. <i>Project Manager.</i> Managed the CWI/NDT inspection and coating inspection services during the fabrication of bridge girders at various shop locations. KTA also provided	

	material sampling services for flat bar and rebar, and verified welding tests in accordance with NYSDOT standards. KTA served as the prime consultant for this contract.
12/12 – 08/15	Steel and Concrete Fabrication Inspection Contracts, Connecticut DOT, Statewide, CT. <i>Project Manager.</i> Managed on three consecutive multi-year contracts for steel and concrete fabrication inspection and coatings inspection services during fabrication operations at various shops. KTA served as the prime consultant for all contracts.
12/12 – 07/15	Steel Fabrication Inspection Contracts, Pennsylvania DOT, Statewide, PA. <i>NDE Supervisor.</i> Oversaw the responsibilities of QA inspectors on bridge fabrication projects in various shops throughout Pennsylvania and Ohio. Reviewed NDE procedures, completed site audits on NDE technicians, and oversaw all NDE activities on various projects.
06/08 – 12/12	Employee of A&A Consultants, Pennsylvania DOT, McKees Rocks, PA. <i>NDE/CWI Inspector.</i> Provided services to three inspection consultant companies as a subconsultant. Conducted inspections for Pennsylvania DOT bridge projects involving girders, cross frames, and tooth dams. Also managed and trained a staff of 9 inspectors.
05/08, 12/09, 01/10	North Shore Connector Bridge, Pennsylvania DOT, Pittsburgh, PA. <i>Inspector.</i> Performed various inspections for the North Shore Connector Project in Pittsburgh, PA. Performed visual and dye penetrant weld examinations for a temporary bridge and shoring on Tony Dorset Drive spanning the “cut and cover” portion of the light rail system (served as A&A Consultants’ Structural Steel Inspection Supervisor). Also provided inspections of 30 light poles for this project at Jett Industries, Ellwood City, PA in December 2009, and completed MT/VT inspection of splice plate welds on retaining wall pilings and smoke wall rebar in January 2010.

Firm employed by.



Name	Jayson Helsel, PE	Years of relevant experience with this employer	27
Title	Senior Coating Consultant	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization	MS, Chemical Engineering, University of Michigan BS, Applied Science with High Honors, US Coast Guard Academy		
Active registration number / state / expiration date	PE.30090 / LA / Exp. 9/30/2026		
Year registered	2002	Discipline	Chemical Engineering
Contract role(s) / brief description of responsibilities	Sampling Instrumentation & NDT		
Experience dates	Experience and qualifications relevant to the proposed contract		
	Mr. Helsel, P.E., is a Senior Coatings Consultant with KTA-Tator, Inc. and a nationally recognized coatings, corrosion, and materials engineering expert with more than 30 years of experience in coating failure analysis, condition assessments, specification development, project management, and expert consulting services. A registered Professional Engineer in Louisiana and numerous other states, He holds multiple industry-leading certifications, including AMPP Senior Certified Coatings Inspector, Protective Coatings Specialist, and Certified Concrete Coatings Inspector. His extensive experience spans transportation infrastructure, pipelines, water and fuel storage tanks, commercial and industrial facilities, marine structures, and major transit systems, where he has directed complex coating investigations, laboratory analyses, quality assurance programs, and materials inspections. He is a frequent instructor on coating inspection and failure analysis, has authored numerous technical publications and industry presentations on coatings technology and lifecycle cost analysis, and is widely regarded as a subject matter expert in protective coatings, corrosion prevention, materials evaluation, and forensic failure investigations.		
	03/26 - Ongoing	St. Francisville Bridge, LADOTD, St. Francisville, LA. As a subconsultant to HNTB Corporation (HNTB) KTA has completed a corrosion assessment of the St Francisville Bridge over the Mississippi River located in St. Francisville, Louisiana. The purpose of the assessment was to determine the condition of the exposed weathering steel members and the condition of the existing coatings on the painted portions of the structure in order to develop a maintenance painting strategy. As part of the preliminary design services, Provided a coating condition assessment (visual, coating thickness, adhesion) sampling, laboratory testing (infrared spectroscopy and lead, cadmium, and chromium testing), chloride testing/remediation, provided maintenance painting recommendations for the project, and provided an opinion of probable construction costs.	
	04/25 – 11/25	Dulac Bayou Bridge, LADOTD, Dulac, LA. The Dulac Bayou Bridge in Dulac, Louisiana carries LA0057 and two lanes of traffic plus two sidewalks for pedestrians over the Dulac Bayou. The total bridge length is 460 feet with a swing span length of 135 feet, including an open grid deck design. The bridge was constructed in 1971, and most of the structure reportedly still has the original coating system. As a subconsultant to TRC Engineers, as part of the preliminary design services, provided a coating condition assessment (visual, coating thickness, adhesion) sampling, laboratory testing (infrared spectroscopy and lead, cadmium, and chromium testing), chloride testing/remediation, provided maintenance painting recommendations for the project, and provided an opinion of probable construction costs.	
	09/18 – 09/24	Sunshine Skyway Bridge, FDOT, Tampa, FL. In 2018, as a subconsultant to TY Lin/Louis Berger, KTA began providing coatings-related services on the project. These services included: reviewing existing documents; conducting a coating condition	

	assessment; evaluating coating rehabilitation options and coating systems; developing an opinion of probable costs of construction; developing/modifying technical special provisions for painting, containment and environmental, worker protection and waste disposal; providing coatings-related construction support services; and attending project meetings as directed. Provided coatings engineering/consulting services for KTA on the contract.
06/17 – 06/20	Professional Structural Coating Consulting Services Call-In Basis, PANYNJ, NYC & NJ. KTA provided coatings-related services on a third consecutive on-call structural coating consulting agreement (426-17-050A – 2017-2020). Structural coating consulting services consisted of, but were not limited to, performing coating condition assessments, conducting coating condition analyses, proposing painting priorities for steel structures, laboratory paint testing for composition and physical properties, coating failure analysis, developing technical specifications for the cleaning and painting of steel structures. Provided coatings engineering/consulting services for KTA on the contract.
07/17 – 08/19	Bridges, Niagara Falls Bridge Commission, Niagara Falls, NY. In 2017-2019, KTA provided bridge coating consultant services (assessment and report, design, and construction administration) for the coating rehabilitation on the Rainbow Bridge, Whirlpool Rapids Bridge, and the Lewiston-Queenston Bridge owned by the Niagara Falls Bridge Commission. The purpose of the assessments was to determine the condition of the existing coatings on the structures to develop maintenance painting strategies. Reports were prepared detailing the results of the field inspection and testing, laboratory analysis of field samples, and a discussion of results and recommendations for the repair/replacement of the coating system on these bridges. KTA then prepared contract documents (specifications) for the coating work on the bridges. Provided coatings engineering/consulting services for KTA on the project.
05/17 – 06/19	Betsy Ross Bridge, DRPA, Pensauken, NJ. In 2017 – 2019, KTA provided Coating-Related Support for DRPA on the Betsy Ross Bridge. In 2017-2019, as a subconsultant to STV Incorporated (STV), KTA provided as-needed technical coatings-related support services on the project involving the painting and steel repairs to the New Jersey approach to the bridge (Contract BR-19-2016 Phase I). Specifically, KTA assisted STV in the review of coatings-related contractor submittals (e.g., Containment Working Drawings/Procedures (SSPC Guide 6), Lead Health and Safety Compliance Program, Waste Handling Plan, Environmental Compliance Plan, Surface Preparation and Painting Plans, Coating Materials Submittals, etc.) for general conformance with the requirements of the project construction specification. Provided coatings engineering/consulting services (coatings submittal review) for KTA on the project.

Firm employed by.



Name	Rob Lanterman		Years of relevant experience with this employer	24
Title	Senior Coatings Consultant		Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization			BE / 1999 / Chemical Engineering	
Active registration number / state / expiration date			AMPP Senior Certified Coatings Inspector (#13505; expiration 5/23/2028) AMPP Certified Protective Coatings Specialist (#2015-820-136; expiration 12/31/2027)	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			Sampling Instrumentation & NDT	
Experience dates	Experience and qualifications relevant to the proposed contract			
	Mr. Lanterman is a Senior Coatings Consultant with KTA-Tator, Inc. and a chemical engineering professional with more than 27 years of experience in coatings consulting, condition assessments, failure analysis, specification development, and forensic investigations. His expertise encompasses coating system evaluation and recommendations, corrosion assessments, structural inspections, applicator certification, expert witness services, and the development of maintenance and rehabilitation strategies for transportation, industrial, utility, and commercial infrastructure assets. He has managed and conducted coating condition assessments for major bridge owners and transportation agencies throughout North America, including DOTs, transit authorities, and bridge authorities, and has extensive experience investigating coating failures on bridges, water storage tanks, buildings, parking structures, pipelines, and industrial facilities. His background also includes engineering design, materials selection, finite element analysis, structural assessments, and laboratory and field investigations involving metallic, concrete, and fiberglass-reinforced plastic structures. As a recognized industry expert, he regularly provides technical consulting, specification preparation and review, litigation support, and expert witness services while helping owners optimize coating performance, service life, and lifecycle costs for critical infrastructure assets.			
06/25 – Ongoing	Fort Duquesne Bridge, Pennsylvania Department of Transportation, Harrisburg, PA. Provided sampling services and is supervising laboratory heavy metals testing services for the rehabilitation of the coating system on the Fort Duquesne Bridge in Pittsburgh, PA.			
03/24 – 04/24	US 190 Krotz Springs Bridges, LADOTD, St. Landry Parish, LA. Performed document review and coating condition assessment services for the US 190 Krotz Springs Bridges (eastbound and westbound) in St. Landry Parish. Also prepared a report detailing the findings of the assessment and providing recommendations for the maintenance of the coating system on the bridge.			
09/21 – 12/21	Rehabilitation of the IWGO Bridge, LADOTD, Baton Rouge, LA. Performed a coating condition assessment and assisted with the development of surface preparation, coating application, and environmental/worker protection and containment specifications/drawing notes for the project.			
02/20 – 05/20	Jackson Street (Red River) Lift Bridge, LADOTD, Alexandria, LA. Provided coating condition assessment services, supervision of coatings laboratory testing, and report preparation for the rehabilitation of the coating system on the project.			
03/17 – 05/17	US 90 Morgan City Bridge and Nearby Structures, LADOTD, Morgan City, LA. Performed a coating condition assessment, supervised coatings laboratory testing, and prepared a report with recommendations for the rehabilitation of the coating system.			

02/17 – 03/17	I-310 Luling Bridge, LADOTD, Luling, LA. Performed a condition assessment of the weathering steel tower and girders on the bridge project. Also prepared a report detailing the conditions found and providing recommendations for the remediation of the corrosion problems on the bridge.
03/22 – 03/22	Market Street Frankford Elevated Viaduct, SEPTA, Philadelphia, PA. Evaluated the existing coating condition (visual examination, coating thickness and adhesion measurements, substrate examination, and coating sample procurement) on the eastern end of the Market Street Frankford Elevated Viaduct and provided recommendations on appropriate maintenance strategies, opinions of probable construction cost, and modification of the existing SEPTA surface preparation and coating application specifications for use in bidding the work to prospective contractors.
02/18 – 06/19	Walt Whitman Bridge, Delaware River Port Authority, Camden, NJ. Provided coating consulting and project engineering services for a coating condition assessment of the NJ approach spans to the bridge project. Also performed a coating condition assessment of the spans to develop future maintenance painting strategies.
07/20 – 08/20	Denison Harvard Bridge, Cuyahoga County (OH) Department of Public Works, Cleveland, OH. Provided coating condition assessment supervision for coatings laboratory testing, development of a maintenance painting strategy and recommendations, and development of an opinion of probable costs for the maintenance painting of the project.

Firm employed by. ARCADIS			Meets MPR No. 14
Name	Jason Morrell, PWS	Years of relevant experience with this employer	13
Title	Principal Planner	Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization		BS / 1999 / Environmental Economics and Management, University of Georgia	
Active registration number / state / expiration date		Professional Wetland Scientist – #2319 / USA / Exp. 04/2028	
Year registered	2013	Discipline	Wetland Science
Contract role(s) / brief description of responsibilities		Deputy Project Manager / Environmental and Permitting Lead	
		Mr. Morrell has 26 years of experience in environmental planning and permitting in the southeastern U.S. Prior to joining Arcadis, he served as a National Environmental Policy Act (NEPA) Planner and Ecologist with the Georgia Department of Transportation (GDOT) evaluating environmental effects and completing permitting and environmental documentation for transportation projects. Over the past 10 years he has managed transportation projects including environmental, traffic, roadway, and drainage disciplines. <u>Mr. Morrell has managed State DOT contracts with values ranging from \$500,000 to \$35 million.</u> His area of expertise includes wetland studies, biological assessment, and environmental permitting, with a focus on Clean Water Act Section 404 permitting and Section 7 Endangered Species Act (ESA) consultation. He is experienced working with the Federal Highway Administration, U.S. Army Corps of Engineers (USACE), U.S. Fish and Wildlife Service, U.S. Coast Guard (USCG), and state resource agencies. Since 2011, Mr. Morrell has worked almost exclusively on transportation projects and is an active member of the Transportation Research Board Committee on Environmental Compliance in Transportation Planning (AEP17).	
Experience Dates		Experience and qualifications relevant to the proposed contract	
04/25 – Ongoing		LA 1/LA 415 Connector Construction Manager At Risk (CMAR), LADOTD, West Baton Rouge Parish, LA. Project Manager for a new 2.7-mile connector roadway project, consisting of a four-lane roadway (LA 415 Connector), interchange modification at I-10 and LA 415, and new LA 415 interchanges at Sun Plus Parkway and LA 1. Arcadis scope of services includes traffic engineering and analysis for the entire project, including alternative concept development, phased project implementation, safety analysis, signal inventory and design, and transportation management plan. Arcadis is also responsible for all stages of plan design for select roadway segments. Responsible for <i>managing delivery of traffic studies and roadway design plan packages on an accelerated CMAR schedule.</i>	
02/24 – Ongoing		I-10 Calcasieu River Bridge Public Private Partnership (P3) Project, LADOTD, Calcasieu Parish, LA. Environmental Lead for preparation of required environmental permit applications for replacement of the I-10 Calcasieu River Bridge and 5.25 miles of interstate improvement along I-10. <i>Led coordination with responsible federal, state, and local agencies</i> throughout the permitting process on behalf of the P3 project team. Environmental permit applications prepared included a USACE Section 10/404 Clean Water Act Standard Permit, Louisiana Department of Environmental Quality Water Quality Certification Request, and USCG Section 9 Bridge Permit and Navigation Lighting Plan.	
06/22 – Ongoing		Environmental Support Services – Ecology Indefinite Delivery, Indefinite Quantity (IDIQ) Contract, GDOT, Statewide, GA. Project Manager. Responsible for managing a five (5) year, \$35 million IDIQ contract including staff augmentation and program delivery support. Manage a team of staff and subconsultants providing 24 embedded (Support Services) positions with the GDOT Office of Environmental Services (OES). Manage a team of ecologists and subconsultants delivering ecology	

	initiatives including training media, guidance documents, report templates, programmatic agency agreements, and on-call services to the GDOT Ecology Section. Provide innovative digital solutions to improve GDOT program delivery including workload management, contract management, and document tracking dashboards.
02/17 – 09/25	I-49 South (Ricohoc to Berwick) Supplemental Environmental Impact Statement (SEIS), Louisiana Department of Transportation and Development (LADOTD), St. Mary Parish, LA. <i>Project Manager</i> for a NEPA SEIS for the conversion of a 10-mile segment of US 90 to I-49 from Ricohoc to Berwick in St. Mary Parish. Responsibilities included scope and labor hour negotiations during initial project setup, as well as managing the multi-disciplinary scope, schedule, and budget for all project phases including the traffic, line and grade, and environmental studies.
10/22 – Ongoing	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Replacements Program – District 02, LADOTD, Multiple Parishes. <i>Environmental Lead</i> for replacement of six off-system bridges in LADOTD District 02. Responsibilities include management of environmental services for this bridge bundle including preparation of Solicitation of Views (SOVs) letters, wetland studies, Section 106 National Historic Places Act compliance documentation, NEPA Programmatic Categorical Exclusions, USACE Section 404 Clean Water Act permits, and Louisiana Department of Energy and Natural Resources (LDENR) Coast Use Permits, as needed.
04/21 – Ongoing	Rural Bridge Replacement Initiative Phase II – Districts 02, 03, 07, 61, and 62, LADOTD, Multiple Parishes, LA. <i>Project Manager/Environmental Lead</i> for 16 state projects involving replacement of 29 state highway bridges. As a subconsultant, Arcadis was responsible for delivery of all environmental services. The scope of services consists of Solicitation of Views, wetland studies, Programmatic Categorical Exclusions, and permitting including USACE Nationwide Permits (NWP), LDENR Coastal Use Permits, and local levee board permits. Responsible for managing delivery of environmental documents and permitting and coordinating with LADOTD and permitting agency staff.
04/16 – 06/23	Pete’s Highway Interchange Alternative and Environmental Assessment (EA), LADOTD, Livingston Parish, LA. <i>Ecology Lead</i> for wetland delineation and protected species habitat assessment along Range Road in the vicinity of the I-12 interchange for the proposed interchange improvement project. Provided technical review of a Biological Resources and Wetland Findings Report, including required exhibits, in support of the NEPA EA.
09/19 – 06/22	Environmental Support Services IDIQ Contract, GDOT, Statewide, GA. <i>Project Manager and Ecology Lead.</i> Responsible for management of embedded environmental staff completing technical studies and environmental documentation on behalf of GDOT, including review of consultant documents. Designed and developed ecology initiatives for the GDOT OES including guidebooks and toolkits to update the Environmental Procedures Manual, training materials for contractor prequalification, applications to streamline National Marine Fisheries Service Section 7 ESA and Essential Fish Habitat consultations, and other research initiatives.
10/15 – 04/18	North Bayou Black Drive/Hanson Canal Bridge (Off-System Bridge Program), LADOTD, Terrebonne Parish, LA. <i>Senior Ecologist.</i> Completed technical reviews of the Biological Resources, Wetland Findings Report, and required exhibits prepared for replacement of an off-system highway bridge. Findings from the wetland delineation report were used for a USACE Jurisdictional Determination and Section 404 permit application.

Firm employed by. 				Meets MPR No. 12			
Name		Crista Haag		Years of relevant experience with this employer		7	
Title		Cultural Resources Professional		Years of relevant experience with other employer(s)		20	
Degree(s) / Years / Specialization				MA / 2004 / Anthropology, emphasis in Archeology, University of Kentucky BA / 1998 / Anthropology, Miami University of Ohio			
Active registration number / state / expiration date				N/A			
Year registered		N/A		Discipline		N/A	
Contract role(s) / brief description of responsibilities				Cultural Resources – Archaeology			
Experience dates		Experience and qualifications relevant to the proposed contract					
		Ms. Haag has been involved in cultural resources management and Section 106 National Historic Preservation Act (NHPA) consultation for over 20 years. She has worked with various public and private sector clients on Phase I, II, and III cultural resources investigations. Her primary responsibilities have included proposal development, project management, agency coordination, background research, fieldwork, artifact analysis, and reporting. She has served as the Principal Archaeologist on projects in Arkansas, Indiana, Illinois, Iowa, Kentucky, Michigan, Mississippi, Missouri, Ohio, Pennsylvania, Tennessee, Texas, Virginia West Virginia, and Wisconsin. Christa has implemented cultural resource management techniques for large and small projects, demonstrated budget management skills to meet client’s needs, and has successfully completed numerous projects in a timeframe that meets client requirements.					
01/20 – 08/20		Westway 20-inch Potable Water Line Project, El Paso Water, El Paso, TX. Principal Archeologist for a project involving installation of a water line. Cultural resources investigations conducted according to Texas Antiquities Code of Texas including background research, State Historic Preservation Office (SHPO) consultation, and archaeological survey.					
03/19 – 05/19		Northeast Sanitary Sewer Line Project, Confidential Client, Brazos County, TX. Principal Archeologist for a project involving installation of a sewer line. Cultural resources investigations conducted according to Texas Antiquities Code of Texas including background research and SHPO consultation.					
02/19 – 09/19		Big Spring Siding Project – Toyah Sub MP 513.79 to 516.54, Confidential Client, TX. Principal Archeologist for a project involving the construction of a siding track adjacent to the main track of the Toyah Subdivision between MP 513.79 and 516.54. Cultural resources investigations conducted according to Section 106 of NHPA. Conducted background research and developed a cultural desktop assessment, along with USACE coordination. Completed background research and Section 106 NHPA consultation with the U.S. Army Corps of Engineers (USACE).					
01/17 – 01/19		Railroad Bridge Replacement Projects, Confidential Client, Various Counties, TX. Lead Archeologist for several USACE permitted railroad bridge replacement projects. Cultural resources investigations conducted according to Section 106 of NHPA. Conducted background research and developed cultural desktop assessments, and, if necessary, coordinated field survey and Section 106 consultations with the USACE.					
12/20 – 12/20		New Braunfels Utility Surface Water Treatment Plant Expansion Project, Confidential Client, Comal County, TX. Principal Archeologist for a project involving the water treatment plant expansion. Cultural resources investigations conducted according to Texas Antiquities Code of Texas including background research and SHPO consultation.					

Firm employed by: ARCADIS			Meets MPR No. 11	
Name	Lauran Switzer, RPA		Years of relevant experience with this employer	5
Title	Principal Planner		Years of relevant experience with other employer(s)	16
Degree(s) / Years / Specialization		MA / 2009 / Archaeology, University of South Carolina BS / 2004 / Anthropology, College of Charleston		
Active registration number / state / expiration date		RPA #16637 / US / Exp N/A		
Year registered	2009	Discipline	Archaeology	
Contract role(s) / brief description of responsibilities		Cultural Resources Reconnaissance		
		Ms. Switzer has 21 years of experience as an Archaeologist with eight years as a National Environmental Policy Act (NEPA) planner. Ms. Switzer's professional experience includes Environmental Manager and NEPA lead for numerous complex design-build projects, consisting of 13 years of experience in design-build mega projects including five years in Georgia and eight on the west coast while employed by the Washington State Department of Transportation. Ms. Switzer is highly experienced in transportation planning, alternative delivery, public involvement/stakeholder outreach, Section 106 agreement document development, tribal consultation, state/federal permit compliance, environmental compliance inspection, artifact analysis and curation, technical and research report writing, historical (Historic American Buildings Survey/Historic American Engineering Record [HABS/HAER] recording), archaeological assessments (including National Register nominations), teaching, and public outreach.		
Experience dates		Experience and qualifications relevant to the proposed contract		
10/20 – 6/25		GDOT Environmental Services Region 3 On-Call Contract; Multiple Counties, GA/Multiple PIs. Deputy Project Manager/Task Order Manager. Managed the environmental task orders for 20 bridge replacement projects for Region 3 on-call services in support of preparation of environmental studies, reports, and documents. Scope includes compiling the results of environmental studies into documents that are compliant with NEPA; conduct QC reviews of environmental studies and NEPA documents, and plan and conduct public outreach on behalf of GDOT in accordance with OES Environmental Guidebooks, Published Environmental Guidance, and the Georgia Department of Transportation Plan Development Process.		
10/20 – Ongoing		GDOT General Engineering Consultant (GEC) and Construction Engineering & Inspections (CEI) for Design-Build Program, GDOT, Multiple Counties, GA. Environmental Manager/Task Order Manager. Responsible for four pre-let environmental teams and two post let environmental teams and leads NEPA documentation for complex and highly expedited design build projects. Project types consist of new location interchange, a frontage road, an interchange widening, and a major interstate widening. Successfully navigated project challenges and unique variables such as a third-party permit applicant and facilitated expedited document preparation and agency reviews.		
10/20 – 12/21		I-85 Widening Phase 3 from North of SR 11 to North of US 441, Georgia Department of Transportation PI 0015245, Banks and Jackson Counties, GA. Environmental Manager and NEPA Lead. Led the pre-let environmental team and led NEPA documentation for this variable scope 13-mile interior highway widening design build project. The project had an aggressive Pre-Let schedule, therefore expedited document preparation time and agency reviews were critical for environmental certification within six months of project kickoff. Conducted weekly team check-ins/status updates for all the environmental		

	disciplines (GDOT/PMC/GEC) to stay on track for environmental documentation approval and reviews prior to June 2021 when the NEPA document was approved and the project let. Also reviewed all contractor post-let environmental submittal packages and attended post-let meetings providing support to the GEC and contractor team.
1/21 – Ongoing	Project Adventure, Morgan, Newton, and Walton Counties, GA for GDOT PI 0017219, 0018363, 0018361, 0019451. <i>Environmental Manager/NEPA Lead and Post-Let Project Manager.</i> NEPA lead for this project of rapid Pre- and Post-Let program delivery of four transportation projects – US 278/SR widening, new alignment frontage road, and new full-service inter-change on I-20 in support of a major economic development. Project involves continuous close coordination between GDOT, GA Department of Economic Development, a multi-county JDA, and a private technology company. Arcadis led Pre-Let design and technical studies, developed RFP TPs under two bid packages, and is currently providing Post-Let GEC support in contract implementation/compliance. Served as Environmental Manager of the pre let environmental team and currently has the same role post-let, leading NEPA documentation for this complex and highly expedited design build project that seeks to construct infrastructure to support an electric vehicle plant in three counties. Project components consist of a new location interchange, a frontage road, and an interchange widening. The project had an aggressive Pre-Let schedule with unique variables such as a third-party permit applicant; therefore, expedited document preparation time and agency reviews were critical for environmental certification. Conducts weekly team check-ins/status updates for all the disciplines to stay on track for environmental documentation. As post-let environmental lead, provided weekly environmental support consisting of reviewing contractor environmental reports and submittals and leading NEPA reevaluations and special studies memorandums.
04/24 – Ongoing	North Druid Hills Interchange, Dekalb County, GA for Georgia Department of Transportation PI 0016054. <i>Post-Let Environmental and NEPA Lead.</i> NEPA lead for this complex, urban interchange improvement from DBB to DB delivery. Project includes road widening, construction of displaced left turn onto I-85 South, and bridge replacements in highly congested, constrained urban areas. Arcadis prioritized project activities to meet stakeholder commitments on an aggressive delivery schedule; provided design support to the GDOT led design team, including leading constructability and staging reviews; developed RFP TPs; coordinated with several stakeholders on overlapping transportation and land development projects; and evaluated ATCs. As post let environmental lead, provided weekly environmental support consisting of reviewing contractor environmental reports, design plan changes, and related submittals and leading NEPA reevaluations and special studies memorandums.
03/12– 10/20	SR 99 Alaskan Way Viaduct Replacement (AWVRP) (Three projects- one deep bored tunnel project, one bridge, and north and south tunnel access design bid-build projects) WSDOT, Seattle, WA. <i>Archaeological Field Lead/Project Manager</i> while employed by WSDOT (2012-2017) and then cultural resources manager as a consultant (2017-2020). Responsible for field coordination/scheduling and archaeological monitoring commitments under the Section 106 MOA for the AWVRP that included one design-build deep bored tunnel project through downtown Seattle and three design-bid-build projects. Assisted in writing work scopes/TOs for consultants and developing archaeological specifications. Responsible for writing cultural resources monitoring reports for South Holgate to South King Stage 3. Other duties: review of consultant invoices, scheduling monitoring, contractor compliance with WSDOT contract specifications. Responsive to changing schedules and unanticipated discovery response 24/7.

Firm employed by. ARCADIS			Meets MPR No. 12	
Name	Michael Robb		Years of relevant experience with this employer	1
Title	Senior Architectural Historian		Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization		BA / 2011 / Peace, War, and Defense, University of North Carolina at Chapel Hill BA / 2011 / History, University of North Carolina at Chapel Hill		
Active registration number / state / expiration date		N/A		
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities		Environmental & Permitting Services		
Experience dates		Experience and qualifications relevant to the proposed contract		
		Mr. Robb is a Secretary of the Interior-qualified Architectural Historian and Historian (36 CFR 61) at Arcadis with 12 years of experience in preservation planning across public and private sectors, including Section 106 consulting. He holds a BA in History from the University of North Carolina at Chapel Hill and has been SOI-qualified since 2013. He has supported environmental and cultural resource projects nationwide, coordinating Section 106 efforts for emergency management, resilience, transportation, and water infrastructure clients, including federal, state, municipal, and private organizations. He also spent three years with FEMA as an Environmental Protection Specialist, gaining strong knowledge of government processes and building relationships with agencies and SHPOs across multiple states. Certifications. OSHA 10-hour Safety Certification; ACHP Section 106 Essentials		
07/25 – Ongoing		I-16 From State Route 67 To I-95, GDOT, Bullock, Bryan, Effingham, and Chatham Counties GA. Senior Architectural Historian. Technical quality reviewer in support of section 106 for a 30-mile design build highway widening providing technical assurance for survey reporting and effects assessments. The project has an aggressive pre-let schedule with expedited document preparation time and agency reviews is critical for environmental certification. Project includes complex reporting and survey variables, including noise results based survey areas. Conduct weekly status updates for section 106 to stay on track for environmental documentation approval.		
09/25 – Ongoing		I-75 South Express Lanes Extension GDOT, Henry County, GA. Senior Architectural Historian. SME and technical quality review in support of section 106 for an 8-mile design build express lane extension. The project has an aggressive pre-let schedule with expedited document preparation time and agency reviews critical for environmental certification.		
04/22 – 06/22		Lindley's Mill Bridge Replacement, NCDOT, Alamance County. Section 106 SME. Evaluated eligibility and assessed effects for a Revolutionary War battlefield. Provided technical guidance and deliverables. Provided regular updates and deliverable status at weekly project meetings.		
02/22 – 08/22		NJ Transit Station Design Guidelines, NJDOT, Statewide NJ. Provided draft design guidelines for maintenance and upfits for historic New Jersey Transit rail stations. Provided regular updates and deliverable status at weekly project meetings.		
04/22 – 08/22		Dennisville Bridge Replacement, NJDOT, Cape May County, NJ. SME lead providing section 106 services for a bridge replacement in Dennisville, NJ. Survey, evaluation, effects assessments and additional technical deliverables. Provided regular updates and deliverable status at weekly project meetings.		
02/22 – 08/22		Parkway Avenue Widening, NJDOT, Ewing, Mercer County, NJ. SME Lead providing section 106 services for a road widening in Ewing, NJ. Survey, evaluation, effects assessments and additional technical deliverables. Coordinated public outreach and provided regular updates and deliverable status at weekly project meetings.		

06/21 – 12/21	Garden State Parkway US22 and SR82 Interchange, NJ Turnpike Authority, Union County, NJ. <i>SME Lead.</i> Provided HABS/HAER services for mitigation of adverse effects to the NRHP eligible Garden State Parkway. Documented the interchange with large format photography and draft HABS report.
02/22 – 07/22	Route 9 Movable Bridges Over Passaic and Hackensack Rivers, NJDOT, Bergen County, NJ. <i>SME Lead</i> providing section 106 services for upgrades on historic movable bridges. Provided design guidance, survey, resource evaluation, and effects assessments. Coordinated public outreach and provided regular updates and deliverable status at weekly project meetings.
10/22 – 06/25	Environmental Protection Specialist, FEMA Regions 2 and 3, HGMP, HMA, and BRIC. <i>Team Lead.</i> Controlled project distribution and managed EHP workflow among staff. Track and review progress and keep staff reviews on track for deadline expectations. Review grant application to determine readiness for reviews and develop RFIs as required. Provide technical support as required. Review scope and location; evaluate for proximity to environmentally sensitive areas. Work with state, county, and municipal stakeholders to see grant application to completion. Create Firmette and iPAC maps. Draft section 106 consultation and QA/QC review. Complete NHPA consultation as needed.

Firm employed by. ARCADIS			Meets MPR No. 13
Name	George Rounds, MHP	Years of relevant experience with this employer	2
Title	Architectural Historian	Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization		MHP / 2014 / Heritage Preservation, Georgia State University BA / 2008 / History minor in Religious Studies AS / 2006 / General Studies, Georgia Perimeter College	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Cultural Resources Reconnaissance	
		Mr. Rounds is a Qualified Architectural Historian (36 CFR 61) with 13 years of experience in the field of cultural resources management and has worked on a wide range of projects in rural and urban contexts throughout the U.S. He has extensive Section 106 experience conducting historical research, field surveys, historic resource evaluation, and assessment of effects determinations in support of a variety of transportation projects. He also is an experienced Geographic Information System (GIS) technician and has drafted National Register of Historic Places (NRHP) eligibility evaluation statements.	
Experience dates		Experience and qualifications relevant to the proposed contract	
08/23 – Ongoing		I-285 @ I-20 East Side Interchange Reconstruction, Georgia Department of Transportation, DeKalb County, GA. <i>Lead historian</i> for this Federal Transit Administration grant-funded transit improvement project comprising new sidewalk construction, spot repairs, and installation of ADA-compliant pedestrian ramps in several locations throughout the county. Responsibilities included Section 106 early coordination, historic resources survey and evaluation , and production of Historic Resources Survey and Assessment of Effects reports.	
07/23 – Ongoing		American with Disabilities Act Sidewalk Improvements, Cobb County Department of Transportation, Cobb County, GA. <i>Lead historian</i> for this Federal Transit Administration grant-funded transit improvement project comprising new sidewalk construction, spot repairs, and installation of ADA-compliant pedestrian ramps in several locations throughout the county. Responsibilities included Section 106 early coordination, historic resources survey and evaluation, and production of Historic Resources Survey and Assessment of Effects reports .	
06/21 – 02/23		SR 11 From Blue Ridge Street to SR 325/Nottely Dam Road, Georgia Department of Transportation, Union County, GA. <i>Lead historian</i> for this 8.7-mi. widening project with an aggressive schedule and a variety of historic resource types. Project tasks included validation of multiple project historic resources surveys and evaluations that had been undertaken since the project's notification in 2007 as well as field surveys to identify potential historic resources . These results of these efforts were provided in a Historic Resources Survey Report Addendum IV for 35 historic newly identified historic resources. Following Addendum IV, a detailed assessment of project impacts to 16 resources were provided in an Assessment of Effects report. Mr. Rounds also produced maps and figures for both reports.	
12/21 – 07/22		SR 20 From I-75/Bartow to I-575/Cherokee, Georgia Department of Transportation, Cherokee and Bartow Counties, GA. <i>Lead historian</i> for this 16-mi. widening project. Project tasks included validation of prior historic resources surveys and	

	evaluations, field survey, and evaluation of newly identified historic resources. These efforts culminated in a Historic Resources Survey Report Addendum for 20 historic newly identified historic resources, which were completed within schedule. Responsible for producing maps and figures for the report.
01/15 – 06/21	Cultural Resources Support Contract, Georgia Transmission Corporation (GTC), Statewide, GA. <i>Lead historian/project manager</i> for cultural resources support on a variety of projects throughout the state. Responsibilities included serving as the client point of contact, invoicing, and the timely completion of historic resources surveys, delivery of resource boundaries in a Geographic Information System (GIS) format, and completion of Historic Resources Surveys and Assessment of Effects Reports, for which completed all maps and figures.
05/24-Ongoing	State Route 42 at Norfolk Southern #718418R Miles South of McDonough, Henry County, GA. <i>Historian.</i> Supports Section 106 compliance as the Lead Historian on the post-let General Engineering Consultant team for this bridge replacement project. As the Lead Historian, validated previous reporting, updated resource identification efforts, engaged with design team staff to determine physical, visual, and auditory impacts to cultural resources, and produced required compliance documentation within an aggressive project schedule.
01/24 – Ongoing	State Route 360 from Cheatham Road to County Services Parkway, Cobb County, GA. <i>Historian.</i> Serves as the Lead Historian for this sidewalk installation project along a busy corridor composed of commercial and residential properties, as well as the National Register-listed Kennesaw Mountain National Battlefield Park. Project tasks included assisting with project scoping, validation of prior resource identification efforts, initiation of Section 106 consultation, field survey, and resource evaluation . Also produced maps and figures for the Historic Resources Survey Report.
03/23 – 04/24	State Route (SR) 400 from North Springs MARTA Station to McFarland Road-Express Lanes, GDOT, Fulton and Forsyth Counties, GA. <i>GIS Technician and Historian.</i> As part of the design-build team, served as Historian and GIS technician for the tender phase of this Major Mobility Investment Program design-build project that would construct toll lanes along the northbound and southbound lanes of SR 400. Responsibilities included calculating impacts to ecology resources in ArcGIS Pro from CAD files, reviewing design plans, and providing support to staff for National Environmental Policy Act (NEPA) re-evaluation efforts.
03/19 – 08/20	CR 1515/Willis Foreman Road from SR 4/US 1 TO SR 121/US 25, GDOT, Richmond County, GA. <i>Historian.</i> Served as the lead historian for this widening project. Planned and led the field survey effort and assisted team historians with the evaluation of newly identified historic resources. These efforts resulted in a Historic Resources Survey Report for 28 newly identified historic resources. Responsible for land records research and the production of maps.
10/14 – 04/18	SR 3/Northside Drive from Whitehall Street to Marietta Street, GDOT, Fulton County, GA. <i>Historian.</i> For this major roadway improvement, assisted in the preparation of the Historic Resource Survey (HRS). Tasks included the survey and evaluation of 135 resources comprising commercial, industrial, residential, and district properties. Performed additional research from primary source materials, including Sanborn Fire Insurance Maps, historic aerial photography and topographic maps, city directories and newspaper articles. Due to the quality of survey, research, and evaluations for this project, the team of historians earned accolades from GDOT.

Firm employed by. 			Meets MPR No. 13
Name	Collins Anderson, MHP	Years of relevant experience with this employer	2.5
Title	Architectural Historian	Years of relevant experience with other employer(s)	20
Degree(s) / Years / Specialization	MHP / 2015 / Historic Preservation, Savannah College of Art and Design		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Cultural Resources Reconnaissance		
	Ms. Anderson is a Secretary of the Interior (SOI)-qualified architectural historian (36 CFR 61) and Subject Matter Expert (SME) with 20 years of experience in the fields of education and historic preservation. She has specialized experience in the southeastern United States and has worked with State Historic Preservation Offices (SHPO) in 40 states. She has Section 106 experience conducting historical research, performing field surveys, resource evaluation, assessment of effects determinations, and creating National Register of Historic Places (NRHP) eligibility evaluations. Collins is a technical writer and provides quality control and quality assurance of historical documents within Arcadis as well as prime verification for consultants. She has professional experience crafting Memorandum of Agreements (MOA) in response to adverse effects on historic properties for federally funded projects. This experience includes the creation of Condition Assessment Reports (CAR), Photographic Archival Recordings (PAR), as well as informative architectural history physical and digital deliverables. Collins can also perform Historic American Buildings Survey (HABS) and National Register of Historic Places (NRHP) nominations.		
Experience dates	Experience and qualifications relevant to the proposed contract		
03/25 – Ongoing	I-75 from I-675 to South of SR 155-Express Lanes, Georgia Department of Transportation, Henry/Clayton Counties, GA. <i>SOI-qualified architectural historian and SME.</i> Duties include Section 106 notification, screening the Area of Potential Effect (APE) for historic above-ground resources, field investigation and report submittal, providing feedback to the team on history topics, informing meetings with the GDOT team, and providing status updates (all on a compressed schedule).		
03/25 – Ongoing	District 2-IIJA Off-Sys Bridge Replacement, Louisiana Department of Transportation and Development, Terrebonne/Jefferson/Plaquemines Parishes, LA. <i>SOI-qualified architectural historian and SME.</i> Duties include tribal packet and Section 106 packet creation, map making, screening the APE for historic above-ground resources, evaluation of historic resources, feedback to the Louisiana team on history topics as well as status updates.		
06/24 – Ongoing	Roundabout Construction at SR 135 at Keith Evans Road, Georgia Department of Transportation, Dawson County, GA. <i>SOI-qualified architectural historian and SME</i> for roundabout construction at SR 135 at Keith Evans Road. Duties include project description creation, Section 106 notification, screening the APE for historic above-ground resources, field investigation and report submittal, providing feedback to the team on history topics, informing meetings with the PMC and GDOT team, and providing status updates.		
11/23 – 05/25	State Road 140 at I-85 Road Widening and Sidewalk Reconstruction, Georgia Department of Transportation, Gwinnett County, GA. <i>SOI-qualified architectural historian and SME</i> for road widening and sidewalk reconstruction on SR 140 at I-85. Duties include Section 106 notification, screening the APE for historic above-ground resources, field investigation and report submittal, providing feedback to the team on history topics, informing meetings with GDOT team, and providing status updates.		

09/21 – 09/22	Trileaf Corporation Telecommunications Tower Project, Federal Communications Commission (FCC), Simpson County, Mississippi. <i>Senior Architectural Historian</i> for an MOA consisting of a Historic Resource Survey (HRS) Report and 43 individual HRS forms for historic resources located within the project Area of Potential Effect (APE). Field survey was conducted for each resource, digital photographs were taken to accompany HRS forms and maps were included for all resources. Digital and hard copies were accepted by the Mississippi Department of Archives and History (MDAH) as mitigation for the telecommunications tower project.
04/20 – 04/21	Trileaf Corporation Telecommunications Tower Project, Federal Communications Commission (FCC), Carroll County, Georgia. <i>Senior Architectural Historian</i> for an MOA consisting of PARs of residential historic buildings and a CAR for the historic Veal School. Digital single-lens reflex camera (DSLR) photographs were taken to accompany maps and documentation on archival paper for the PAR. Additionally, a CAR was conducted for the Veal School with digital photographs taken to accompany the report and maps included. The SOI Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring & Reconstructing Historic Buildings were consulted, and a preservation plan was advised. Digital and hard copies were accepted by the Georgia SHPO, Carroll County Historical Society, and current Veal School representative of the CAR and PAR as mitigation for adverse effect to historic resources for the telecommunications tower project.
05/20 – Ongoing	Trileaf Corporation Telecommunications Tower Project, Federal Communications Commission (FCC), Madison County, Georgia <i>Senior Architectural Historian</i> for an MOA consisting of creation of an informational brochure. The brochure compares the Craftsman style of architecture to the bungalow house type in Georgia. Craftsman style and bungalow type homes in the city limits of Athens, Georgia were photographed and information on the history and features of both were compiled into a physical and digital brochure. Preservation entities such as the University of Georgia, College of Environment+Design, the Georgia Historical Society, and the Atlanta Historic Preservation Center were contacted as recipients of the brochure. A digital copy was accepted by the Georgia SHPO of the informational brochure as a preliminary telecommunication project mitigation for an adverse effect to historic resources.

Firm employed by



Meets MPR Nos. 14

Name	Hunter Guidry	Years of relevant experience with this employer	1
Title	Principal Ecologist	Years of relevant experience with other employer(s)	28
Degree(s) / Years / Specialization	BS / 1996 / Environmental Management Systems, Louisiana State University		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Wetland Delineation and T&E Surveys; Regulatory Permitting and Mitigation		



Mr. Guidry is currently a Principal Ecologist with over 28-years with a proven expertise in project management, water resources, wetland delineation and assessment with local, state, and federal Clean Water Act 404 permitting, coastal restoration experience, NEPA compliance, stormwater management and design, remediation support, field data collection, Section 7 Endangered Species Act (ESA) consultation, ecological surveys, vegetative monitoring, biota sample procurement, and construction site management.

Experience dates	Experience and qualifications relevant to the proposed contract
05/25 – Ongoing	Vanguard Renewables-Iberville and Assumption Parishes, LA. <i>Project Manager and Permitting Specialist</i> . Currently working on two new renewable natural gas facilities in Iberville and Assumption Parishes, Louisiana. Following a technical risk analysis by engineers and development of proposed renewable energy facility designs, Arcadis evaluates the ecological integrity and resources associated with the facility layout to identify applicable federal, state, and local permits. Arcadis <i>closely coordinates with the US Fish and Wildlife Service, LA Division of Environmental Quality (LDEQ), Natural Resources Conservation Service, LADOTD, and the LA Department of Wildlife and Fisheries as well as the local Parish agencies</i> for state stormwater, solid waste, operations, and new facility design as well as terrestrial and aquatic resource impacts. Serving as project manager coordinating multiple teams during project screening during the engineering design, field soil fertility, fertilizer (digestate) application, Phase I ESA, and property survey.
06/25 – Ongoing	I-10 Calcasieu River Bridge P3 Project, LADOTD, Calcasieu Parish, LA. <i>Permitting Specialist</i> . The I-10 Calcasieu River Bridge Improvements Project will improve Interstate 10 (I-10) between the I-10/I-210 west and I-10/I-210 east interchanges in Calcasieu Parish, LA. Mr. Guidry was brought in to help expedite the <i>Section 401 Water Quality Certification</i> process with the LDEQ to complete the <i>US Army Corps of Engineers (USACE) Section 404 permitting</i> process. Additional services will include support and coordination with the state and federal agencies during the Clean Water Act (CWA) and stormwater permitting process to complete the necessary permits to begin construction of the new bridge.
02/25 – Ongoing	City of Baton Rouge/Ward Creek Realignment- East Baton Rouge Parish, LA. <i>Permitting Specialist</i> . Arcadis was contracted by the City of Baton Rouge through a FEMA grant to evaluate stormwater impacts to the Ward Creek drainage basin. Arcadis was tasked with the assessment and design of several possible stormwater retention projects within the drainage basin to reduce and control stormwater flows during large rain events. Mr. Guidry completed a desktop assessment of environmental resources and prepared a project impact evaluation and permitting matrix for project planning and stormwater design. He completed wetland determinations on proposed project sites to determine the impacts from the project layout. Mr. Guidry ran multiple <i>Louisiana Rapid Assessment Method wetland assessments</i> to determine the mitigation requirements for each of the project sites for funding requirements. Currently working on permitting and <i>NEPA Environmental Assessment (EA)</i> .

05/23 – 08/23	I-10 to US 61 (West Airline Highway) Connector, LADOTD, St. John the Baptist Parish, LA. <i>Wetland Delineator</i> . Performed a wetland determination along a designated corridor chosen alternate alignment. Performed field work and recorded data. Compiled data and authored a wetland delineation report and provided it to client. Participated in project public meeting with partners and state agencies.
11/23 – 01/25	Caad Kuujaamnix/Bayou Sale Living Shoreline Project, Wayti Services, LLC (Chitimacha Tribal Enterprise), St. Mary Parish, LA. <i>Project Manager / Permitting Specialist</i> . Worked with team on budget and scope of project as well as initiation meetings. Coordinated with archaeological team for airboat investigation of shallow inshore waters and shoreline in the project area. Performed ecological terrestrial and aquatic assessment and environmental site investigation via airboat to look at erosion issues, ecological features, endangered species, native and invasive vegetation, and review of project area in support of a NEPA Environmental Assessment.
07/23 – 12/24	Cypress Bayou Green Infrastructure Project at Greenwood Park, Recreation and Park Commission for the Parish of East Baton Rouge (BREC), East Baton Rouge Parish, LA. <i>Project Management / NEPA Specialist</i> . Project management of environmental aspects of HUD funded stormwater project at the BREC Greenwood Park. Provided environmental consulting services and NEPA compliance primarily related to wetlands permitting, endangered species, stormwater, and environmental conditions of the site. Coordinated with various firms on wetland and endangered species reviews and agency coordination. Performed a HUD checklist review for federal grant funding of stormwater relief project. Worked with prime on all regulatory compliance issues for the NEPA compliance. Secured a Section 404 CWA permit from the USACE and EA/FONSI for project construction.
10/22 – 01/25	Stennis Space Center, Hancock County, Mississippi. <i>Permitting Specialist / Wetland Delineator</i> . Performed site work, wetland determinations, endangered species compliance, and report findings on multiple proposed roadways and construction site pads for Relativity Space within the Stennis Space Center. Secured USACE jurisdictional determinations for four projects. Worked with engineering staff on project layouts and regulatory compliance. Completed four Section 404 CWA permit applications for the NASA programmatic permit through the USACE and Mississippi Department of Marine Resources for a roadway project and multiple large rocket testing facilities.
01/18 – 08/18	I-10/Loyola Interchange, LADOTD, Jefferson Parish, LA. <i>Project Management</i> . Worked with state agencies on the I-10/Loyola interchange Phase I Environmental Site Assessment for NEPA compliance. Performed multiple site inspections of various impact locations for several different alignments. Looked at potential environmental concerns and impacts with each individual alignment. Attended public meetings and interacted with state and local agencies as well as answered questions about environmental impacts to the public for project.
08/18 – 01/21	Fourchon LNG Facility, Lafourche Parish, LA. <i>Project Manager / Field Biologist</i> . Assisted client in preparation, submittal and tracking of resource reports for a FERC application for proposed energy supply facility along the Louisiana coast. Worked on NEPA compliance for facility. Performed nesting bird survey and endangered species site assessment on project site before geotechnical survey began. Coordination with local, state, and federal agencies for project planning, development, and regulatory compliance.
02/10 – 4/11	LA Highway 42/LA Highway 117 Expansion, LADOTD, Leeville, LA. <i>Project Manager</i> overseeing environmental assessments along the LA 42 and LA 117-expansion corridor. Coordinated with parish leaders, design engineers and state and federal agencies.
08/08 – 12/08	Coushatta Bridge Realignment, LADOTD, Allen Parish, LA. <i>Biologist</i> responsible for wetland determinations as well as red cockaded woodpecker and america chaffseed plant survey and habitat analysis along proposed expansion and replacement of the Coushatta Bridge in Allen Parish, Louisiana. Coordinated with state and federal agencies and project engineers.
08/07 – 12/07	McHugh Road (Wimbush Drive to Lower Zachary Road), LADOTD East Baton Rouge Parish, LA. <i>Wetland Delineator</i> . Responsible for a Wetlands Study and preparation of a Wetlands Assessment Report and permitting for this project, which was prepared in accordance with NEPA standards.

Firm employed by.



Name	Catherine Bruns	Years of relevant experience with this employer	2
Title	Ecologist	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization	BS / 2021 / Coastal Environmental Science, Louisiana State University		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Wetland Delineation and T&E Surveys; Regulatory Permitting and Mitigation		
	Ms. Bruns is an Ecologist in the Arcadis Baton Rouge, Louisiana office. She supports transportation projects by performing wetland studies and preparing permit packages for submittal to United States Army Corps of Engineers (USACE) and Louisiana Department of Natural Resources (LDENR) Office of Coastal Management. Prior to joining Arcadis, she worked in the LDENR Office of Coastal Management performing technical and environmental reviews of projects submitted for Coastal Use Permits. She has experience with environmental permitting, biological assessment, and wetland studies		
Experience dates	Experience and qualifications relevant to the proposed contract		
05/23 – Ongoing	Rural Bridge Replacement Initiative Phase II, Louisiana Department of Transportation & Development (LADOTD), Multiple Cities, LA. Ecologist for 16 state projects involving replacement of 29 state highway bridges. The environmental scope of services for the projects consists of Solicitation of Views, Wetland Studies, Programmatic Categorical Exclusion Checklists, and permitting including USACE Nationwide Permits (NWP) and LDENR Coastal Use Permits (CUPs).		
07/23 – Ongoing	I-20 Widening/Overlay (Vancil Rd – LA 34), LADOTD, West Monroe, LA. Ecologist. Performed a wetland delineation along I-20 near West Monroe, LA for the proposed interstate widening project . Provided a Wetland Findings Report , including required exhibits, to be used for a USACE Jurisdictional Determination.		
10/23 – 9/24	Bayer Wetland Survey and Permitting, Bayer Crop Science, Luling, LA. Ecologist. Performed a wetland delineation at the Bayer Crop Science facility in Luling, LA to facilitate development of a solar/sustainability project. Provided a Wetland Findings Report to be used for a USACE Jurisdictional Determination and supported efforts to obtain Natural Resources Coastal Use Permits.		
02/24 – Ongoing	I-10 Calcasieu P3 Design Phase, LADOTD, Lake Charles, LA. Ecologist. Prepared environmental documentation and permitting materials for the Calcasieu River Bridge replacement in Lake Charles, LA. The environmental scope of services includes jurisdictional wetland verification, NEPA Re-Evaluation of environmental commitments , and permitting to include USACE Sections 10, 404, and 408, USCG Section 9, and LDEQ Section 401.		
05/24 – Ongoing	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program, LADOTD, Lake Charles, LA. Ecologist for state projects involving replacement of off-system bridges. The environmental scope of services for the project consists of Solicitation of Views, Wetland Studies, Environmental Determination Checklists, and permitting including USACE Nationwide Permits (NWP) and Louisiana Department of Energy and Natural Resources Coastal Use Permits (CUPs)		
09/24 – Ongoing	Maintenance Anomaly Program, TC Energy Corporation, Multiple Cities, LA. Ecologist for pipeline maintenance evaluation and anomaly repair projects. Performed field duties including wetland delineation, stream classification, GPS survey, and threatened, endangered, and sensitive species survey for pipeline access. Provided support in obtaining CUPs.		

Firm employed by: **ARCADIS**

Name	Lee Droppelman	Years of relevant experience with this employer	4
Title	Principal Scientist	Years of relevant experience with other employer(s)	21
Degree(s) / Years / Specialization	BS / 2000 / Natural Resource Conservation, University of Kentucky		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Wetland Delineation and T&E Surveys		



Mr. Droppelman leads a diverse natural resource team offering multi-disciplinary services to a variety of client markets across the U.S. He has conducted numerous projects dealing with threatened/endangered terrestrial and aquatic species, ecosystem assessment, and stream/wetland jurisdictional determinations, Section 404/401 Clean Water Act (CWA) permitting, and restoration design. Mr. Droppelman holds a federal collection license for over 70 listed species from more than 20 eastern states. He is proficient in the identification of all eastern bats and is an expert in the biology of aquatic fauna (including fish, invertebrates, and mollusks). Additionally, he has professional interest in the correlation of aquatic assemblage to river geomorphology, restoration of aquatic habitats, restoration and enhancement of bottomland forested wetlands, wetland functional assessment, and ecological impact/risk determination. Mr. Droppelman specializes in leading complex projects requiring novel concepts needed for effective agency coordination, scientifically sound resource assessment, and cost-effective minimization and mitigation of adverse effects. Over his career, he has served as discipline expert, principal investigator, and/or project manager for more than 300 transportation projects across the Eastern U.S.

Experience dates	Experience and qualifications relevant to the proposed contract
05/23 – 11/23	Acoustic Bat Survey and Biological Assessment for the I-70 Improvement Project, Missouri Department of Transportation, Jefferson City, MO. Principal Scientist. Leading the acoustic survey for the federally endangered gray bat (<i>Myotis grisescens</i>), Indiana bat (<i>Myotis sodalis</i>), and northern long-eared bat (<i>Myotis septentrionalis</i>), and the proposed-endangered tricolored bat (<i>Perimyotis subflavus</i>) along 34 miles of proposed highway improvements along I-70 west of St. Louis. In compliance with the 2023 Range-wide Indiana Bat and Northern Long eared Bat Summer Survey Guidelines, 39 individual acoustic monitoring locations were surveyed in the summer of 2023. Collected data files were processed through automatic bat ID software, resulting in 10 species identified, including all targeted federally listed bat species.
02/22 – 03/24	Programmatic Biological Assessment for the Management of Bats and Transportation Projects, Georgia Department of Transportation, Statewide, GA. Principal Scientist. Prepared a Programmatic Biological Assessment/Biological Opinion between GDOT, U.S. Fish and Wildlife (USFWS), U.S. Army Corps of Engineers, Federal Highways Administration, and Georgia Department of Natural Resources that provides the framework for how GDOT will manage consultation requirements for all of Georgia's federal and state listed bat species statewide for a variety of transportation projects. Identified and assessed all covered activities for stressors, developed standard avoidance and minimization measures , and prepared a decision-making process for all GDOT project managers to follow.
08/18 – 11/23	Bridging Kentucky Program, Kentucky Transportation Cabinet (KYTC), Frankfort, KY. Principal Scientist. Repairing or replacing over 1,300 critical bridge structures across Kentucky over the next six years. The program will reopen closed bridges, remove weight restrictions that prevent use by school buses, emergency vehicles and businesses, and improve

	access and mobility for all Kentuckians. Serves as the principal investigating ecologist for all threatened/endangered species surveys , including bats, freshwater mussels, fish, and plants. Managed and/or completed field surveys on more than 200 bridge locations across Kentucky..
05/15 – 11/22	Indian Creek Water Supply Reservoir, Carroll County Water Authority, Carroll County, GA. Lead Biologist. The Carroll County Water Authority is applying for an Individual Section 404 CWA Permit for the construction of a 401-acre water supply reservoir capable of meeting the unmet water supply needs of Carroll County, a total of six million gallons per day by the year 2065. Responsible for preparation of the compensatory mitigation plan which will provide compensation for impacts to 13 acres of wetlands and over 43,000 linear feet of stream. Managed the project's jurisdictional waters delineation and reporting, mitigation site identification, alternatives analysis , and Section 404 permit application support.
03/18 – 01/22	Fee In Lieu Of (FILO) program – Rolling Fork Floodplain Pre-Design, Kentucky Department of Fish and Wildlife Resources (KDFWR), Nelson and Larue Counties, KY. Lead Biologist. The KDFWR FILO Program provides a way to fulfil compensatory mitigation requirements associated with the Clean Water Act, Section 404 and 401. The 660-acre Rolling Fork Floodplain Project compensates for the permanent loss of aquatic (wetland and stream) functions within the Salt River watershed. Responsible for managing the jurisdictional waters delineation and reporting , fish and macroinvertebrate sampling, bat habitat and sensitive ecological feature assessments, wetland restoration design, protected species surveys , and the biological assessment report .
12/21-03/22	Survey and Relocation of Federally Listed Fish for the Kentucky Highway 2996 Bridge Rehabilitation Project, Kentucky Transportation Cabinet (KYTC), Whitley County, KY. Biologist. As a condition of a Biological Assessment prepared for the rehabilitation of the Highway 2996 Bridge over Wolf Creek, relocated all federally listed fish species present within 50 meters upstream and 100 meters downstream of the bridge location. The stream is a known location for the federally listed blackside dace (<i>Chrosomus cumberlandensis</i>) and the Cumberland darter (<i>Etheostoma susanae</i>). Led a crew of biologists employing electroshocking techniques to perform a depletion collection in the required stream reach and relocation to a predetermined location approximately two kilometers upstream of the bridge. All activities were coordinated with KYTC and US Fish and Wildlife Service, and the contractor was able to complete their work without delay.

Firm employed by.



Meets MPR No. 13

Name	Anthony Charles Chieffo, MA, RPA		Years of relevant experience with this employer	1
Title	Senior Architectural Historian		Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization			MA / 2024 / Archaeology and Heritage / University of Leicester BS / 2015 / Archaeology / Kennesaw State University	
Active registration number / state / expiration date			Register of Professional Archaeologists (RPA) / #28084 exp: N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			NEPA Support - Historic Architecture	
			Mr. Chieffo is a qualified historian and archaeologist (36 CFR 61) with 11 years of experience in the field of cultural resources management. Professionally, he has performed on a range of projects within rural and urban contexts in Georgia, South Carolina, North Carolina, Tennessee, Louisiana, Florida, Mississippi, Alabama, and Kentucky. During his academic career he functioned as a research assistant at the INSTAP Study Center for East Crete in a lab setting and was a Lab Manager cataloging artifacts recovered during field school at Kennesaw State University. His experience includes field management, archival research, laboratory management, artifact analysis and curation, technical and research report writing, historical architectural field surveys, archaeological field assessments, public outreach, writing historic context statements, historic background research, and crafting National Register of Historic Places eligibility evaluation statements.	
Experience dates			Experience and qualifications relevant to the proposed contract	
03/24 – 10/24			Historic Resource Assessment of Properties, Employed with Edwards Pitman Environmental, Inc., Chatham County, GA. Executed an intensive-level architectural field survey in Savannah, Georgia in accordance with National Register Bulletin 24 – Guidelines for Local Surveys: A Basis for Preservation Planning. A <i>Historic resources Survey Report</i> was prepared for the project. Seven hundred and twenty-one properties constructed during or before 1974 were studied including, but not limited to, previously recorded NRHP and NHL properties, railroads, bridges, houses, industrial districts, residential districts, churches, a segment of the Dixie Highway and portions of the Savannah Port Authority District.	
08/23 – 10/24			Historic Resource Assessment of Properties, Employed with Edwards Pitman Environmental, Inc., Henry County, GA. Executed an intensive-level architectural field survey in Savannah, Georgia in accordance with National Register Bulletin 24 – Guidelines for Local Surveys: A Basis for Preservation Planning for planned road improvements to State Route 155 from the Interstate Highway 75 interchange toward McDonough, in Henry County Georgia. A historic Resource Survey Report Addendum and Property Information Forms were completed documenting four individual resources including <i>one historic hotel, two historic warehouses, and one historic segment of the Dixie Highway.</i>	
10/22 – 01/23			Phase I Archaeological Survey of the SR 17 Widening and Bowman Bypass, Employed with Edwards Pitman Environmental, Inc., Elberton County, GA. One of two Crew Chiefs over a team of four individuals for the Phase I Archaeological Survey of a State Route Widening Project in Elberton County, Georgia. Field methods involve systematic shovel test excavation and probe survey of cemeteries within the survey area.	
08/21 – 11/21			Proposed Replacement of SR 23 Bridges, Employed with Edwards Pitman Environmental, Inc., Burke County, GA. <i>Field Director.</i> Served during the Phase I survey identification, Phase II formal site testing of 9BK531, and Phase III Data Recovery excavation of site 9BK531 in Burke County, Georgia. In accordance with Section 106, the Georgia Environmental Protection	

	Act (GEPA), and the standards put forth by the Georgia Council of Professional Archaeologists (GCPA), coordinated with other team members, grid planning, site mapping, feature excavation, logistics and equipment planning, and site analysis.
04/17 – 08/18	Phase I and II Archaeological Survey of the Proposed Replacement of the SR 23 Bridges over Brier Creek and Brier Creek Overflow, Employed with Edwards Pitman Environmental, Inc., Burke County, GA. <i>Crew Chief</i> for both the Phase I and Phase II Archaeological Survey of a bridge replacement project in Burke County, Georgia. Phase II Archaeological Survey includes test units for site 9BK531 which intersected with the bridge replacement project. Survey includes systematic augur and shovel test excavation, and test unit excavation.
02/18 – 03/18	Phase I Archaeological Survey of the Mill Creek Stream Mitigation Area, GDOT, Employed with Edwards Pitman Environmental, Inc., Bledsoe County, TN. Co-authored the report and functioned as field director for an archaeological survey of 126 acres of wetland mitigation in Bledsoe County, Tennessee. Site 40BS99 was recorded during this survey. Field methods involve systematic shovel test excavation.
08/17 – 01/18	Phase I Archaeological Survey of the Proposed Kennesaw Mountain Pedestrian Improvements, Employed with Edwards Pitman Environmental, Inc., Cobb County, GA. Functioned as <i>Field Crew</i> for the Phase I Archaeological Survey of Pedestrian Improvement areas within Kennesaw Mountain Battlefield Park. Survey methods include systematic metal detection and shovel test excavation.
07/17 – 08/17	Phase I Archaeological Survey for the Proposed Westside Truck Route, Employed with Edwards Pitman Environmental, Inc., Waynesboro, GA. Authored the report and functioned as field director for an archaeological survey of 2.1 miles of new location roadway in Waynesboro, Georgia. Field methods involve systematic shovel test excavation. Sites 9BK534, 9BK535, and 9BK536 were recorded during this survey.
07/17 – 08/17	Seventh Addendum Phase I Archaeological Survey for the Widening and Improvements of SR 61 from south of CR 467/ Dallas Nebo Road to SR, Employed with Edwards Pitman Environmental, Inc., Paulding County, GA. Acted as <i>Crew Chief</i> for the Phase I Archaeological Survey of areas along SR 61 designated for additional passing lanes and road improvements. Survey methods include over 100 hours of systematic metal detection sampling, shovel test excavation, and probe survey of cemeteries within the survey area.
11/17 – 12/17	Addendum Phase I Archaeological Survey of the SR 166 Widening and Bowdon Bypass Project, Employed with Edwards Pitman Environmental, Inc., Carroll County, GA. <i>Crew Chief and lead</i> report author for the Addendum Phase I Archaeological Survey of 9 areas along SR 166 designated for additional passing lanes and road improvements. Field methods involve systematic shovel test excavation.
07/16 – 01/17	Phase I Archaeological Survey of the SR 20 Improvement Project from I-575 to SR 400, Employed with TerraXplorations, Inc, Cherokee and Forsythe Counties, GA. <i>Crew Chief</i> for the Phase I Archaeological Survey for the 24-mile improvement project planned along SR 20, from I-575 to SR 400. Survey methods include systematic shovel test excavation and judgmental test unit excavation in areas of high artifact density.
04/16 – 05/16	Phase I Archaeological Direct Effects Survey for the Proposed Neals Mill Cellular Tower, Employed with TerraXplorations, Inc, McDuffie County, GA. <i>Field Director and co-author</i> for the Phase I Archaeological Survey of the proposed construction of a Cellular Tower in McDuffie County. Field methods involve systematic shovel test excavation and historic resource survey of structures surrounding the proposed tower location.

Firm employed by.



Name	Jerry G. Lazenby, PE, PLS		Years of relevant experience with this employer	45
Title	President		Years of relevant experience with other employer(s)	16
Degree(s) / Years / Specialization			BS / 1965 / Civil Engineering, Louisiana Tech University	
Active registration number / state / expiration date			PLS. 0002313/ LA / Exp. 03/2028 PE. 0012104 / LA / Exp. 03/2028	
Year registered	1970 1970	Discipline	Professional Land Surveyor Professional Engineer (Civil and Environmental)	
Contract role(s) / brief description of responsibilities			Surveying	
		Mr. Lazenby has over 60 years of experience in planning, surveying, designing, inspecting, and construction administration of transportation facilities. The first 9 years of Mr. Lazenby's career were spend with the U.S. Bureau of Public Roads/Federal Highway Administration at various locations in the United States as a Highway Engineer reviewing and assisting state highway officials with transportation projects utilizing Federal-Aid transportation funding from project inception through construction. Mr. Lazenby has designed and supervised numerous projects for LDOTD over the past 45 years. He has been responsible for the firm's growth as well as the reputation of the firm. He has instilled in each member of the firm to provide a professional product and to deliver on time. Mr. Lazenby has successfully completed the following continuing education classes, workshops, and seminars: • LA Specific Traffic Control Technician Course, 2024 (refresher) • LA Specific Traffic Control Supervisor Course, 2024 (refresher) • National Environmental Policy Act (NEPA) and Transportation Decision Making.		
Experience dates		Experience and qualifications relevant to the proposed contract		
07/10 – 12/13		Bossier North-South Corridor Roadway and Bridges (I-220/Swan Lake Road Interchange to Crouch Road), Bossier Parish, LA. Principle-in-Charge. Principle-in-Charge and performed QA-QC reviews of the plans. On this project, Lazenby & Associates developed topographic surveys, property surveys , right-of-way maps, preliminary roadway and bridge plans and final roadway and bridge plans along a 7.8-mile corridor being developed as an Urban Systems Project by the Bossier Parish Police Jury.		
12/07 – 05/16		Arkansas Road (LA 616), Ouachita Parish, LA. Principle-in-Charge, Project Manager. Mr. Lazenby was Principle-in-Charge, Project Manager, and performed QA-QC reviews of the plans. On this project, Lazenby & Associates performed topographic surveys, property surveys and developed right-of-way maps , preliminary roadway plans and final roadway plans for the widening of a 3.2-mile section of LA 616 from a two-lane rural roadway section to a five-lane urban roadway section including four multi-lane roundabouts. The project also included the hydraulic analysis of an existing timber bridge site in which the bridge was replaced with a reinforced concrete box culvert.		
09/17 – 03/26		Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish, LA. Principle-in-Charge. On this project, Lazenby & Associates performed topographic surveys, developed preliminary roadway plans , and is currently developing final roadway plans for the widening of a section of Garrett Road to a four-lane arterial route with five multi-lane roundabouts. The project includes ramp modifications of the I-20/Garrett Road interchange, five (5) multilane roundabouts, a new overpass structure over I-20, a new overpass structure over Millhaven Road (LA 594) and the adjacent KCS railroad		

	tracks, lighting, and traffic signal work. The project also includes design and development of subsurface drainage plans to improve drainage within the project area. Final plans are currently 98% complete.
10/14 – 06/17	Retainer Contract for Professional Surveying Services, Statewide, LA. <i>Principle-in-Charge.</i> Responsible for 8 Task Orders to perform topographic surveys on various LDOTD projects in Louisiana
01/17 – 01/20	Retainer Contract for Professional Surveying Services – Statewide. <i>Principle-in-Charge.</i> Responsible for 6 Task Orders to perform topographic surveys on various LDOTD projects in Louisiana.
10/19 – 02/24	Retainer Contract for Professional Surveying Services – Statewide. <i>Principle-in-Charge.</i> Responsible for 15 Task Orders to perform topographic surveys on various LDOTD projects in Louisiana.
10/20 – Ongoing	Retainer Contract for Professional Surveying Services – Statewide . <i>Principle-in-Charge.</i> Responsible for this contract, which thus far has contained 2 Task Order to perform a topographic survey on S.P.N. H.015052.5: I-20 Widening & Improvements (Vancil to LA 34) in Ouachita Parish and a topographic survey on S.P.N. H.015640.5: LA 150 – LA 818 Roundabout in Lincoln Parish..
08/23 – Ongoing	IJA Off-System Bridge Replacement Program, District 05, LA. <i>Principle-in-Charge.</i> Responsible for the replacement of structurally deficient bridge structures for ten (10) off-system bridge projects in LDOTD District 05 under this contract. He is also providing QA-QC reviews of the roadway and bridge plans. The projects included in this contract are as follows: • State Project No. H.015337 – Mineral Springs Road Over Clark Creek, Ouachita Parish • State Project No. H.015453 – Hale Road Over Alligator Bayou, West Carroll Parish • State Project No. H.015454 – Keppler Creek Road Over Sugar Creek, Jackson Parish • State Project No. H.015455 – Spring Creek Road Over Wafer Creek, Lincoln Parish • State Project No. H.015456 – Hodge Road Over Cypress Bayou, Madison Parish • State Project No. H.015459 – Lapine Road Over Rogers Creek, Ouachita Parish • State Project No. H.015460 – Little Road Over Creek, Richland Parish • State Project No. H.015461 – Fire Tower Road Over Rock Creek, Union Parish • State Project No. H.015462 – Pilgrims Rest Church Road Over Steep Bank Creek, Union Parish • State Project No. H.015463 – White Oak Landing Over Edmonds Creek, Union Parish Most of these projects have reached the final preliminary plan stage and are awaiting environmental clearance.

Firm employed by.



Meets MPR No. 10

Name	Ronald J. Riggan, II, PE, PLS		Years of relevant experience with this employer	11
Title	Senior Survey Lead		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization			BS / 2006 / Civil Engineering	
Active registration number / state / expiration date			PLS. 0005119/ LA / Exp. 03/2027 PE. 0036016 / LA / Exp. 03/2027	
Year registered	2014, 2011	Discipline	Professional Land Surveyor, Professional Engineer (Civil)	
Contract role(s) / brief description of responsibilities			Surveying	



Mr. Riggan is familiar with the requirements of the LADOTD Location and Survey Section for conducting topographic surveys, property surveys and hydrographic surveys. Mr. Riggan is responsible for quality control of all survey data obtained by survey crews in conducting topographic surveys, property surveys, and hydrographic surveys. Mr. Riggan has over ten (10) years of experience in conducting and performing topographic surveys, property surveys, and developing right-of-way maps.

Experience dates	Experience and qualifications relevant to the proposed contract
07/14 – 06/16	Retainer Contract for Professional Surveying Services, Statewide, LA. Senior Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys on 14 Task Orders for an accumulated value of \$436,473.00 for LADOTD State Projects at various locations in northern Louisiana.
10/14 – 06/17	Retainer Contract for Professional Surveying Services, Statewide, LA. Project Survey Lead responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys on 8 Task Orders for an accumulated value of \$811,513.00 for LADOTD State Projects at various locations in Louisiana.
04/13 – 06/16	Hydrographic Survey Monitoring of Existing Bridges, Statewide (North Region), LA. Senior Surveyor. Performed hydrographic surveys on 14 Task Orders for monitoring scour at major bridge sites in north Louisiana. Duties included supervision of survey crews, analysis of survey data, and the development of required hydrographic survey reports at the various bridge locations.
03/15 – 08/17	Ole Highway 15 Improvements, Ouachita Parish, LA. Senior Surveyor. Performed a topographic survey of a 2.2-mile section of Ole Hwy 15 from US 80 to LA 616 and then was the project engineer responsible for roadway design. This project consisted of pavement reconstruction under the DOTD Urban Systems program. (Note that we typically perform a full topo survey , within existing right-of-way, on pavement preservation projects on Ouachita Parish roadways. This is not typically done for LADOTD on-system pavement preservation projects.).
05/16 – 02/18	Steep Bayou Sewer Main project of the West Ouachita Sewerage District No. 5, LA. Project Surveyor. Performed a topographic survey of the alignment for a sewer main trunk line from I-20 to New Natchitoches Road along Steep Bayou in Ouachita Parish. Also conducted a boundary survey of the right-of-way parcels along this route and developed the necessary ROW maps and legal descriptions..
09/18 – 01/23	Retainer Contract for Professional Surveying Services, Statewide (North Region), LA. Senior Surveyor. Performed hydrographic surveys on major bridge structures in northern Louisiana for monitoring channel scour. Duties included

	supervision of field crews, <i>analysis of survey data and development of required hydrographic survey reports</i> at the various bridge locations for submission to the LADOTD.
12/18 – 02/19	Garrett Road, Ouachita Parish, LA. Senior Surveyor. Responsible for supervision and scheduling <i>of field survey crews, analysis of survey data</i> , and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of a 0.4-mile segment of roadway from LA 15 to Austin Street under the DOTD Urban Systems program.
01/19 – 04/19	Wall Williams Road, Ouachita Parish, LA. Senior Surveyor. Responsible for <i>supervision and scheduling of field survey crews, analysis of survey data</i> , and development of field roll for use in project design. This project consisted of segments of mill, patch, and overlay and segments of reconstruction of a 1.6-mile segment of roadway from Good Hope Road to LA 143 under the DOTD Urban Systems program.
04/19 – 07/19	Lee Avenue, City of Monroe, Ouachita Parish, LA. Senior Surveyor. Responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of a 1.2-mile segment of roadway from Jackson Street to Standifer Avenue under the DOTD Urban Systems program..
07/19 – 09/19	Tanglewood Drive, Ouachita Parish, LA. Senior Surveyor. Responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of roadway reconstruction a 0.3-mile segment of roadway from LA 15 to Dellwood Drive under the DOTD Urban Systems program.

Firm employed by.



Name	Paul D. Fryer, PE, PLS	Years of relevant experience with this employer	40
Title	Senior Vice-President	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization	B.S. / 1984 / Civil Engineering, Louisiana Tech University		
Active registration number / state / expiration date	PLS 0004806/ LA / Exp. 09/2027 PE. 0023426 / LA / Exp. 09/2027		
Year registered	1987, 1997	Discipline	Civil Engineering, PLS
Contract role(s) / brief description of responsibilities	Surveying		



Mr. Fryer has over 40 years of experience in planning, surveying, designing, inspecting, and construction administration of transportation facilities. Mr. Fryer is familiar with LDOTD and AASHTO design standards for roadway design and plans development. Mr. Fryer has performed professional engineering and land surveying services on a variety of projects involving line and grade studies, major investment studies, location and Stage "0" studies as well as topographic surveys, property surveys, development of ROW maps. Mr. Fryer also has extensive experience in developing preliminary and final roadway plans on a variety of LDOTD projects, and has served in a QA-QC role on many different projects throughout his career. Mr. Fryer is familiar with the LDOTD Location and Survey Manual for conducting topographic surveys, property surveys and developing right-of-way maps. He has overseen the development of right-of-way maps for various LDOTD projects for over 20 years.

Experience dates	Experience and qualifications relevant to the proposed contract
10/07 – 04/16	Arkansas Road (LA 616), Ouachita Parish, LA. <i>Project Manager</i> . This project consisted of widening a 3.2-mile segment of LA 616 from two lanes with open ditches to 5 lanes with subsurface drainage. Served as project manager, responsible for QA-QC of the plans, and was surveyor in charge of right-of-way maps .
07/10 – 05/18	Bossier North-South Corridor Roadway and Bridges (I-220/Swan Lake Road Interchange to Crouch Road), Bossier Parish, LA. <i>Project Manager</i> . This project consisted of the reconstruction and realignment of a 3.7-mile section of Swan Lake Road and construction of a new 4.2-mile roadway connecting Swan Lake Road and Crouch Road and included two bridge structures. Served as project manager, was responsible for QA-QC of the plans, and was the surveyor in charge of right-of-way maps .
02/18 – Ongoing	Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish, LA. <i>Project Manager</i> . This project consists of widening Garrett Road from two lane to 4 lanes and construction of a new connector roadway from Garrett Road to Kansas Lane. The project includes five multi-lane roundabouts, ramp modifications of the I-20/Garrett Road interchange, a new overpass structure over I-20, and a new overpass structure over Millhaven Road (LA 594) and the adjacent KCS railroad tracks, lighting, and traffic signal work at the intersection of Kansas Lane and Millhaven Road. Served as project manager, is responsible for QA-QC of the roadway plans, and prepared right-of-way maps for the project.
05/08 – 05/12	Kansas Lane Extension (Route US 80 to Route US 165) City of Monroe Urban Systems, Ouachita Parish, LA. <i>Project Manager</i> . Served as project manager and surveyor responsible for conducting property surveys , and developing right-of-way maps as a sub-consultant to Denmon Engineering Co., Inc. This project involves construction of a four-lane urban arterial route around the University of Louisiana at Monroe connecting US 80 on the south end and US 165 on the northern end.

11/10 – 05/13	Retainer Contract for Professional Surveying Services, Statewide, LA. <i>Project Manager.</i> This retainer contract authorized 23 task orders for topographic surveys , property surveys and ROW maps over a 3-year period. Served as the Project Manager and performed QA/QC for this contract.
03/08 – 04/11	Retainer Contract for Professional Surveying Services, Statewide, LA. <i>Project Manager.</i> This retainer contract authorized 15 task orders for topographic surveys, property surveys and ROW maps over a 3-year period. Served as the Project Manager and performed QA/QC for this contract.
11/11 – 01/15	Retainer Contract For Professional Surveying Services, Statewide, LA. <i>Project Manager.</i> This retainer contract authorized 25 task orders for topographic surveys, property surveys and ROW maps over a 3-year period. Served as the Project Manager and performed QA/QC for this contract.
03/18 – 03/23	Retainer Contract For Professional Surveying Services, Statewide, LA. <i>Project Manager.</i> This retainer contract authorized 25 task orders for topographic surveys, property surveys and ROW maps over a 5-year period. Served as the Project Manager and performed QA/QC for this contract.
08/22 – Ongoing	US 165 Turn Lanes at Scott Drive, Ouachita Parish, LA. <i>Project Manager.</i> Provided a QA/QC review of the roadway plans and contract documents for this project, which consisted of adding a left and right turn lane on US 165 and traffic signal modifications at Scott Drive in Sterlington, Louisiana. This project was funded by LDOTD through Ouachita Parish School Board.
08/23 – Ongoing	IJA Off-System Bridge Replacement Program, District 05, LA. <i>Project Manager.</i> Providing QA/QC reviews of the various plan submittals for ten (10) off-system bridge projects in LDOTD District 05 under this contract. Responsible for performing the property surveys and preparing the Right-of-Way Maps for this contract. The projects included in this contract are as follows: • State Project No. H.015337 – Mineral Springs Road Over Clark Creek, Ouachita Parish • State Project No. H.015453 – Hale Road Over Alligator Bayou, West Carroll Parish • State Project No. H.015454 – Keppler Creek Road Over Sugar Creek, Jackson Parish • State Project No. H.015455 – Spring Creek Road Over Wafer Creek, Lincoln Parish • State Project No. H.015456 – Hodge Road Over Cypress Bayou, Madison Parish • State Project No. H.015459 – Lapine Road Over Rogers Creek, Ouachita Parish • State Project No. H.015460 – Little Road Over Creek, Rapides Parish • State Project No. H.015461 – Fire Tower Road Over Rock Creek, Union Parish • State Project No. H.015462 – Pilgrims Rest Church Road Over Steep Bank Creek, Union Parish • State Project No. H.015463 – White Oak Landing Over Edmonds Creek, Union Parish Most of these projects have reached the final preliminary plan stage and are awaiting environmental clearance.

Firm employed by.



Name	James S. Ellingburg, PE, LSI	Years of relevant experience with this employer	18
Title	Project Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS / 2008 / Civil Engineering		
Active registration number / state / expiration date	PE. 0037236 / LA / Exp. 09/2026 LSI. 0000814 / LA / Exp. 03/2028		
Year registered	2012	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Surveying		



Mr. Ellingburg has 18 years of experience in developing roadway plans on both LADOTD (Louisiana Department of Transportation and Development) and local roadway projects. Mr. Ellingburg is familiar with the LADOTD Roadway Design Procedure and Details Manual and the LADOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Mr. Ellingburg has assisted in hydraulic analysis and design, as well as roadway design and preparation of roadway plans, on a variety of roadway projects. He has also assisted with the processing of topographic survey data on multiple projects.

Experience dates	Experience and qualifications relevant to the proposed contract
05/08 – 06/15	Arkansas Road (LA 616), Ouachita Parish, LA. Project Staff Engineer. This project consisted of widening a 3.2-mile portion of LA 616 from a two-lane section to a five-lane urban roadway, and included four multi-lane roundabouts that required extensive geometric design and graphical grade development in order to meet AASHTO and LADOTD standards and requirements for safety. Initially served as an engineering technician, <i>checking the topographic survey in the field for accuracy</i> . Served then as a project staff engineer, assisting the project engineer with <i>development of existing drainage maps, drainage design maps, utility adjustments, and developing roadway plans</i> . Assisted with roundabout designs, joint layouts, graphical grades and sequence of construction in both Preliminary and Final plan development. Provided construction support on an as-needed basis by answering field questions from the contractor or LADOTD, once the project was let for construction.
12/10 – 10/12	Bossier North-South Corridor Roadway and Bridges (I-220/Swan Lake Road Interchange to Crouch Road), Bossier Parish, LA. Project Staff Engineer. This project consisted of the reconstruction and realignment of a 3.7-mile section of Swan Lake Road and construction of a new 4.2-mile roadway connecting Swan Lake Road and Crouch Road and included two bridge structures. Served as a project staff engineer, working on development of existing drainage maps, design drainage maps, roadway drainage plans, and assisting with roadway and bridge design and plan development for both Preliminary and Final plans. The southern portion of the project contains an urban three-lane section, while the northern segment is a rural, two-lane roadway.
11/11 – 01/12	El Camino East/West Corridor, Route LA 6, Natchitoches Parish, LA Project Staff Engineer. Served as a project staff engineer, developing existing <i>drainage maps for a LDOTD Topographic Survey</i> .
09/17 – Ongoing	Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish, LA. Project Staff Engineer. Served as a project staff engineer, assisting with generating topographic survey deliverables, developing existing drainage maps for the <i>topographic survey portion</i> of the project. Performed drainage design, developed design drainage maps, and assisted with

	design of five multi-lane roundabouts, developing graphical grades and assisting with geometric design and sequence of construction, during the design and plan preparation portion of the project. This urban project includes five multilane roundabouts and interstate ramp modifications that required extensive geometrics and graphical grades in order to meet AASHTO and LDOTD standards and requirements for safety.
01/17 – Ongoing	Ouachita Parish Police Jury Road Program, LA. <i>Project Engineer.</i> Integral team member of the Ouachita Parish Police Jury Road Program. Tasks include of evaluating parish roadways and developing pavement preservation construction plans, including <i>processing the topographic surveys</i>, drainage design, and geometric improvements, to preserve and extend the life of Ouachita Parish roadways, some of which are designed and constructed under the LADOTD Urban Systems program. Served as project engineer during construction, ensuring that the projects are built in accordance with the plans and specifications. Provided professional services, including serving as the project engineer during construction, with some of the following Ouachita Parish Urban System projects: • State Project No. H.011747 – Edwards Road (Reconstruction) • State Project No. H.013796 – Tanglewood Drive (Reconstruction) • State Project No. H.013802 – Garrett Road (Mill, Patch and Overlay) • State Project No. H.013803 – Richwood Road No. 2 (Mill, Patch and Overlay) • State Project No. H.013804 – Wall Williams Road (Mill, Patch and Overlay and includes a segment of Reconstruction) • State Project No. H.013805 – Finks Hide-A-Way Road (Mill, Patch and Overlay and includes a segment of Reconstruction) • State Project No. H.014350 – Old Natchitoches Rd (Mill, Patch and Overlay)
11/22 – 08/25	Kansas Ln Ext (Old Sterl.-US165) Phase 1, Ouachita Parish, LA. <i>Project Engineer.</i> This project consisted of the construction of new roadway in Ouachita Parish. Served as the project engineer during construction of this project, ensuring that the project is built in accordance with the plans and specifications, coordinating testing to confirm compliance with LADOTD Material Sampling Manual, and coordinating construction activities with utility companies and railroad personnel to keep the project on schedule.

Firm employed by.



Name	Noah J. Sampognaro, PE, LSI		Years of relevant experience with this employer	4
Title	Project Engineer		Years of relevant experience with other employer(s)	N/A
Degree(s) / Years / Specialization		BS / 2020 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date		PE. 0049838 / LA / Exp. 09/2027 LSI.0000808 / LA / Exp. 03/2028		
Year registered	2025 2026	Discipline	Civil Engineering LSI	
Contract role(s) / brief description of responsibilities		Surveying		
		Mr. Sampognaro has 4 years of experience in performing drainage design, hydraulic analysis, roadway design, and preparation of roadway plans on a variety of LDOTD and local roadway projects. Mr. Sampognaro passed his P.E. Civil Transportation exam in October 2022 and is currently enrolled in the University of Wyoming Cadastral Surveying Certificate Program. Mr. Sampognaro is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Mr. Sampognaro also assists in processing topographic survey and mobile LIDAR data, creating survey centerline alignments (ALG's) using horizontal regression analysis, developing digital terrain models (DTM's), and producing existing drainage maps for LDOTD topographic surveys. Mr. Sampognaro has successfully completed the following continuing education classes, workshops, and seminars: • TOPO Dot User Conference, 2022 • One-Dimensional Modeling of River Encroachments with HEC-RAS Class, 2022 • LA Specific Traffic Control Technician Course, 2022 • LA Specific Traffic Control Supervision Course, 2022		
Experience dates		Experience and qualifications relevant to the proposed contract		
08/21 – 11/22		North Frontage Road – Phase 2, Ouachita Parish, LA. Engineer. Assisted in the development of roadway plans, including processing topographic survey data, performing drainage design calculations and developing existing and design drainage maps. Also assisted with quantity calculations and preparation of a construction cost estimate. This project, which was prepared for the City of Monroe I-20 Economic Development District, consists of a 0.6-mile frontage road on new alignment north of Interstate 20, east of Garrett Road, in Monroe, Louisiana. Also assisted in construction support activities, including, but not limited to, site visits to address contractor RFI's, assisting in processing pay estimates and change orders, and assisting with the final inspection and preparation of a punch list.		
01/21 – 06/22		Retainer Contract for Professional Surveying Services, Statewide, LA. Engineer. This retainer contract consisted of fifteen task orders to perform topographic surveys for various projects across Louisiana. Assisted in post-processing topographic survey data which was collected with the use of GPS receivers, robotic total stations, and SX-10 terrestrial scanners, as well as using TOPO Dot software to extract data collected with a terrestrial mobile lidar scanner. His duties also included creating survey centerline alignments (ALG's) and associated reports using horizontal regression analysis, developing existing digital terrain models (DTMs), and producing existing drainage maps. Assisted on the following task orders: • State Project No. H.011706.5 – BNSF Several RR Xings (Baldwin) in St. Mary Parish (01/2021-08/2021)		

	- State Project No. H.012032.5 – LA 2: Bridges Near Mer Rouge, Route LA 2 in Morehouse and West Carroll Parishes (02/2021-04/2021) - State Project No. H.008220.5 – LA 406 @ F.E. Hebert Roundabout, Route LA 406 in Plaquemines Parish (03/2021-07/2021) - State Project No. H.012541.5 – LA 594: Overpass I-20, Route 594 in Ouachita Parish (01/2022-06/2022) - State Project No. H.014646.5 – I-20: US 165 – E. of Garrett Road, Route I-20 in Ouachita Parish (08/2021-01/2022).
01/22 – 1/23	I-20: I-20 Widening/Overlay (Vancil Rd to LA 34), Ouachita Parish, LA. Engineer. This project consisted of performing a complete topographic survey along I-20 from the Well Road Interchange to the LA 34 (Stella Mill St) Interchange in Ouachita Parish. It also included portions of Well Road, Downing Pines Road, Thomas Road, and LA 34 (Stella Mill St) for a total cumulative length of 25,625 ft (4.85 miles). Data was collected using GPS receivers, robotic total stations, SX-10 terrestrial scanners, and a terrestrial mobile LIDAR scanner. Assisted in post processing the survey data, extracting mobile LIDAR data using TOPO Dot software, and creating the existing drainage map. He also assisted in quality control measures by comparing field data collected by the survey crew to LDOTD as-built drawings..
01/21 – Ongoing	Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish, LA. Engineer. Assisted with quantity calculations during final plan development, as well as assisting with preparation of a construction cost estimate. This urban project includes five multilane roundabouts and interstate ramp modifications. The final plans are currently 98% complete.
01/21 – Ongoing	Ouachita Parish Police Jury Road Program, LA. Engineer. Assisted with the Ouachita Parish Police Jury Road Program. Tasks include developing pavement preservation roadway plans, including processing topographic survey data, design of cross drain structures, superelevation correction calculations, and quantity calculations, to preserve and extend the life of Ouachita Parish roadways, some of which are constructed under the DOTD Urban Systems program. Assisted on the following Ouachita Parish Urban Systems projects: - State Project No. H.013805 – Finks Hide-A-Way Road (Mill, Patch and Overlay and includes a segment of Reconstruction) - State Project No. H.014397 – Rowland Road (Mill, Patch and Overlay) - State Project No. H.014398 – Caples Road (Mill, Patch and Overlay).
06/21 – 10/24	Multiple Projects, City Street Improvements, City of Monroe. Engineer. Assisted with City of Monroe roadways designed under the LDOTD Urban Systems program. Tasks include developing pavement preservation roadway plans, including processing topographic survey data, hydraulic design, quantity calculations, and construction cost estimates. Assisted on some of the following City of Monroe Urban Systems projects: - State Project No. H.014347 – South Grand Street (Mill, Patch and Overlay) - State Project No. H.014348 – Lee Avenue (Mill, Patch and Overlay) Currently assisting with construction support activities by field marking and verifying required areas of pavement patching.
08/22 – 12/24	US 165 Turn Lanes at Scott Drive, Ouachita Parish, LA. Engineer. Assisted in the development of roadway plans and processing the topographic survey data, including creating the existing digital terrain model (DTM), existing drainage map, drainage design, and quantity calculations. This project, which was prepared for the Ouachita Parish School board, consisted of adding a left and right turn lane on US 165 and traffic signal modifications at Scott Drive in Sterlington Louisiana.

Firm employed by.



Name	Randy C. Hammons, PE		Years of relevant experience with this employer	25
Title	Project Engineer		Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization			BS / 1993 / Civil Engineering	
Active registration number / state / expiration date			PE 0029504 / LA / Exp. 09/2027	
Year registered	2001	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Roadway Design	



Mr. Hammons has more than 25 years of experience in planning and designing highways and bridges on transportation projects in Louisiana, Arkansas, Mississippi, and Tennessee. He has approximately 18 years of experience supervising and processing topographic survey data, including establishing survey control, calculating existing alignments, creating digital terrain models (DTM's), and developing existing drainage maps for LDOTD projects.

Mr. Hammons has successfully completed the following continuing education classes, workshops, and seminars:

- LA Specific Traffic Control Technician Course, 2024 (refresher)
- LA Specific Traffic Control Supervisor Course, 2024 (refresher).

Experience dates	Experience and qualifications relevant to the proposed contract
01/17 – 01/20	Retainer Contract for Professional Surveying Services, Statewide, LA. Project Engineer. <i>Responsible for processing topographic survey</i> field data and developing topographic survey maps and images. This retainer contract contained six task orders to perform topographic surveys for various projects over a 3-year time frame. Some of the task orders for Topographic Surveys were as follows: • State Project No. H.003370.5 – I-220/I-20 Interchange and BAFB Access, Route I-220 & I-20 in Bossier Parish (04/2018 – 10/2018). Topographic survey of the proposed I-220/I-20 Interchange and BAFB Access roadway in Bossier Parish using GPS receivers, robotic total stations, SX-10 terrestrial scanner, and mobile lidar. • State Project No. H.007300.5 & H004774.5 – Kansas Lane – Garrett Road Connector and I-20 Interchange in Ouachita Parish (3/2018 – 9/2018) Topographic Survey of the proposed Kansas Lane - Garrett Road Connector and I-20 Interchange using GPS receivers, robotic total stations and a SX-10 terrestrial scanner. • State Project No. H.012036.5 – US 80: Boeuf River Bridge in Richland Parish (03/2019 – 6/2019). Topographic survey for a bridge replacement project at the US 80 crossing of the Boeuf River using GPS receivers, robotic total stations and a SX-10 terrestrial scanner.
10/19 – 03/23	Retainer Contract for Professional Surveying Services, Statewide, LA. Project Engineer. Responsible for processing topographic survey field data and <i>developing topographic survey maps and images</i>. This retainer contract has contained fifteen task orders to perform topographic surveys for various projects over a 5-year time frame. Some of the task orders for Topographic Surveys were as follows: • State Project No. H.012030 – US 371: KCS RR Overpass HBI, Route LA 159 and US 371 in Webster Parish (10/2020-04/2021). Topographic survey of two bridge replacements over KCS RR using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridges.

	- State Project No. H.012032.5 – LA 2: Bridges Near Mer Rouge, Route LA 2 in Morehouse and West Carroll Parishes (02/2021-04/2021). Topographic survey of two bridge replacement sites using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridges. - State Project No. H.013832.5 – LA 6: Grand Ecore Bridge Deck Repair, Route LA 6 in Natchitoches Parish (04/2021-06/2021). Topographic survey of the existing deck, barrier rails & river pier top of cap elevations for the Grand Ecore Bridge across the Red River using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate complete bridge deck & barrier rails. - State Project No. H.014554.5 – LA 3025: Coulee Mine Scour Repair, Route LA 3025 in Lafayette Parish (04/2021-07/2021). Topographic survey of a bridge located near the intersection of LA 3025 & West Bayou Parkway using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridge, roadway and intersection. - State Project No. H.012541.5 – LA 594: Overpass I-20, Route LA 594 in Ouachita Parish (01/2022-06/2022). Topographic survey of a bridge replacement near the intersection of I-20 and LA 594 (Texas Ave) using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar used to locate 4,200 LF of I-20 mainline and two bridge decks over interstate. - State Project No. H.014646.5 – I-20: US 165 – E. of Garrett Road, Route I-20 in Ouachita Parish (08/2021-01/2022). Topographic survey of a proposed 2.49 mi interstate widening near the intersection of Garrett Road and I-20 using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar was used to locate 7,130 LF of I-20 mainline.
01/20 – Ongoing	Retainer Contract for Professional Surveying Services, Statewide, LA. Project Engineer. <i>Responsible for processing topographic survey</i> field data and developing topographic survey maps and images. This retainer contract has contained one task order to perform topographic surveys over a 5-year time frame. The task order for Topographic Surveys is as follows: State Project No. H.015052.5 – I-20 Widening & Improvements (Vancil to LA 34), Route I-20 in Ouachita Parish (05/2022-01/2023). Topographic survey of a proposed 3.94 mi interstate widening from Vancil Road to LA 34 along I-20 in West Monroe using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar was used to locate 20,815 LF of I-20 mainline
11/24 – Ongoing	I-69 Frtg. Rd. Conn (Ellerbe Rd to LA 1), Caddo Parish, LA. Project Engineer. Project Engineer responsible for processing the topographic survey field data for this project.

Firm employed by.



Name	Blaine T. Holloway, EI	Years of relevant experience with this employer	3
Title	Engineer Intern	Years of relevant experience with other employer(s)	N/A
Degree(s) / Years / Specialization	B.S. / 2023 / Civil Engineering, Louisiana Tech University		
Active registration number / state / expiration date	E.I. 0035474 / LA / Exp. 09/2027		
Year registered	2023	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Roadway Design		



Mr. Holloway has 3 years of experience in performing drainage design, hydraulic analysis, roadway design, and preparation of roadway and bridge plans on a variety of LDOTD (Louisiana Department of Transportation and Development) and local roadway projects. Mr. Holloway is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Mr. Holloway also assists in processing topographic survey, creating survey centerline alignments (ALG's) using horizontal regression analysis, and developing digital terrain models (DTM's).

Experience dates	Experience and qualifications relevant to the proposed contract
06/22 – 09/22	I-20 Widening/Overlay (Vancil Rd to LA 34) Ouachita Parish. <i>Engineering Intern.</i> This project consisted of performing a complete topographic survey along I-20 from the Well Road Interchange to the LA 34 (Stella Mill St) Interchange in Ouachita Parish. It also included portions of Well Road, Downing Pines Road, Thomas Road, and LA 34 (Stella Mill St) for a total cumulative length of 25,625 ft (4.85 miles). Data was collected using GPS receivers, robotic total stations, SX-10 terrestrial scanners, and a terrestrial mobile LIDAR scanner. Assisted in post processing the survey data and creating the existing drainage map.
06/23 – 11/23	Various Projects, City Street Improvements, City of Monroe. <i>Engineering Intern.</i> Assisted with a variety of pavement preservation designs for the City of Monroe. Task includes of developing pavement preservation roadway plans, including hydraulic design, quantity calculations, and construction cost estimates. Some of the City of Monroe projects include the following: • Task Order No. 21-17-001 – Parkview Drive Improvements (Mill, Patch and Overlay) • Task Order No. 21-17-003 – North 6th Street Improvements (Mill, Patch and Overlay).
01/24 – 04/24	Roundabout Topographic Survey, Task Order No. 2, LA 150 & LA 818. LA. <i>Engineering Intern.</i> Assisted in post-processing topographic survey data, which included developing a digital terrain model (DTM) of the existing site, creating a surveyed centerline alignment via horizontal regression, and conducting a LA One Call and coordinating with utility companies to get their existing facilities incorporated into the topographic survey. Assisted in compiling the LDOTD submittal requirements for this survey.
06/22 – 03/26	Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish. <i>Engineering Intern.</i> This project consists of widening Garrett Road from two lane to 4 lanes and construction of a new connector roadway from Garrett Road to Kansas Lane. The project includes five multi-lane roundabouts, ramp modifications of the I-20/Garrett Road interchange, a new overpass structure over I-20, and a new overpass structure over Millhaven Road (LA 594) and the adjacent KCS railroad tracks,

	lighting, and traffic signal work at the intersection of Kansas Lane and Millhaven Road. Assisted with quantity calculations during final plan development, as well as assisting with preparation of a construction cost estimate.
10/23 –Ongoing	IIJA Off-System Bridge Replacement Program, District 05, LA. <i>Engineering Intern</i>. Assisted in the development of preliminary roadway and bridge plans and hydraulic analyses/reports for ten (10) state projects under this contract. Duties included conducting hydraulic analyses utilizing HEC-RAS 1D modeling, preparing hydraulic reports in accordance with LDOTD's Hydraulics Manual, assisting in the development of roadway and bridge plans, calculating of quantities, and developing construction cost estimates. Assisted in the development of topographic surveys for several of the projects under this contract. Task included post processing of survey data, development of digital terrain models (DTM) of the existing sites, creating surveyed centerline alignments via horizontal regression, and utility coordination. Assisted on the following state projects: • State Project No. H.015337 – Mineral Springs Road Over Clark Creek • State Project No. H.015453 – Hale Road Over Alligator Bayou • State Project No. H.015454 – Keppler Creek Road Over Sugar Creek • State Project No. H.015455 – Spring Creek Road Over Wafer Creek • State Project No. H.015456 – Hodge Road Over Cypress Bayou • State Project No. H.015459 – Lapine Road Over Rogers Creek • State Project No. H.015460 – Little Road Over Creek • State Project No. H.015461 – Fire Tower Road Over Rock Creek • State Project No. H.015462 – Pilgrims Rest Church Road Over Steep Bank Creek • State Project No. H.015463 – White Oak Landing Over Edmonds Creek These projects are nearing the final plan stage, where continued assistance will be provided in the development and preparation of final roadway and bridge plans.
10/24 – Ongoing	LA 64 Roundabout @ LA 1019, LA. <i>Engineering Intern</i>. This project began as an in-house project at DOTD, where it reached the 30% preliminary plan stage, but was ultimately issued as a task order to DOTD Contract 4400026026 (IDIQ Contract for Roadway Design Safety). Performed the 3D modeling and hydraulic analysis/drainage design for this project.

Firm employed by. SAI Formerly SJB Group (Formerly SJB)			Meets MPR No. 10	
Name	Ralph D. Burgess, PLS		Years of relevant experience with this employer	1
Title	Surveyor/ Survey Department Manager		Years of relevant experience with other employer(s)	26
Degree(s) / Years / Specialization		BS / 2004 / Industrial Technology Design, Southeastern Louisiana University		
Active registration number / state / expiration date		PLS.0005040 / LA / Exp. 09/30/2026		
Year registered	2010	Discipline	Professional Land Surveyor	
Contract role(s) / brief description of responsibilities		Survey & Title Work Services		
Experience dates	Experience and qualifications relevant to the proposed contract			
		With over two decades of experience, Mr. Burgess provides critical project leadership, team development, and professional experience to SJB Group's Transportation Services. Throughout his distinguished career, he has held leadership roles at respected firms, including serving as Sr. Project Manager at T. Baker Smith, LLC in Prairieville, Louisiana, and as Survey Manager/Supervising Professional at Civil Design & Construction, Inc. in Port Allen, Louisiana, where he dedicated 13 years of service.		
09/25 – 01/26	Project No. H.000112 US 190: UPRR Overpass, LADOTD, Opelousas, LA. Project Bridge Engineer. Surveyor of Record/Project Manager. Managed topographic surveys for the I-49 and UPRR Railroad Bridge in Opelousas, as well as the US 190 and Bayou Teche Bridge replacements. Oversaw crew coordination, topography work, review and integration of Mobile LiDAR data. Traditional Field work and coordination of SUE.			
08/24 – Ongoing	Project No. H.003931 – I-10 Calcasieu River Bridge P3 Project, LADOTD, Calcasieu Parish, LA. Department Manager. SJB Group provided an additional Topographic Survey and Right-of-Way Mapping for this project, which is the largest in LA DOTD history. This project covers a 5.5 mile stretch of Interstate 10 and includes 15 bridges and 19 ramps. The topographic survey component of the project include recovery and verification of existing control, preparation of the primary and secondary control sketch, supplemental topographic survey and dtm preparation.			
09/25 – 01/26	Office of Louisiana Highway Construction Bridge Bundle 6 - O.B.2025.03.048, Vermilion Parish, LA. Survey Manager/Responsible Charge. This project is a complete topography and property survey for seven bridges. Managed a complete topography and property survey for seven bridge projects, overseeing crew coordination, control and topographic data processing, and property/right-of-way calculations. Directed creation and review of survey control, topographic, and property survey packets to ensure accuracy and compliance with project standards.			
09/25 – 10/25	Office of Louisiana Highway Construction Bridge Bundle 6 - O.B.2025.03.047, Vermilion Parish, LA. Survey Manager/Responsible Charge. Oversaw a complete topographic and property survey for a single bridge, ensuring compliance with project standards. Responsibilities included coordinating field crews, processing survey control and topography data, and calculating property boundaries and right-of-way limits. The manager prepared survey control, topographic survey, and property survey packets for submittal and review by the supervising professional, maintaining accuracy and quality throughout the project.			

09/23 – 12/23	Project No. H.015619.5 LA 106, LADOTD, Evangeline Parish, LA. Survey Manager/Responsible Charge. This project involved an 8-mile pavement preservation for District 03. It primarily had limited topography with some areas requiring full topography according to LaDOTD standards. Worked with the district to finalize survey scoping, managed and directed the topographic survey, and coordinated with local utility companies for asset locations in areas needing full topography. Upon project completion, conducted a comprehensive quality control and assurance review of the topography submittal. The topographic data was gathered using traditional methods.
07/20 – 10/21	Project No. H.013989 Greybow Rd. Palmetto Creek, LADOTD, Beauregard Parish, LA. Surveyor of Record/Project Manager. The project included the completion of property surveys, base right of way maps, and final right of way maps that were required for the project. Responsible for field crew coordination, review of title takeoff & title reports, right of way calculations, review production of maps, final QA/QC, and final deliverables to the Client. The Surveys were performed to LA DOTD Location and Survey Standard.
02/21 – 07/22	Project No. H.013958 Carpenters Bridge Rd. Whiskey Chitto Creek, LADOTD, Allen Parish, LA. Surveyor of Record/Project Manager. Managed and directed the topographic survey while coordinating with local utility companies for asset location. Conducted thorough quality control and quality assurance reviews of all topography submissions and drainage maps. The topographic data for this project was collected using both traditional means and methods.
01/21 – 06/21	Project No. H.013959 Reeds Bridge Rd. Calcasieu River Relief, LADOTD, Allen Parish, LA. Surveyor of Record/Project Manager. Managed and directed the topographic survey while coordinating with local utility companies for asset location. Conducted thorough quality control and quality assurance reviews of all topography submissions and drainage maps. The topographic data for this project was collected using both traditional means and methods. Additionally, this project included property surveys and right-of-way mapping in accordance with LA DOTD standards.
08/16 – 01/18	Project No. H.011235 I-49 Verot School Road, LADOTD, Lafayette, LA. Surveyor of Record/Project Manager. Responsible for managing and directing the topographic survey and coordinating with the SUE subconsultant for all utility locates. Reviewed and conducted QC/QA of all topography submittals and drainage maps. The topographic data for this project was collected both traditionally and by utilizing 3D Scanning methods. Collaborated with the SUE subconsultant and firm crews to obtain and incorporate all utility data.

Firm employed by.  Formerly SJB Group (Formerly SJB)			
Name	Matthew Estopinal, PE, PLS	Years of relevant experience with this employer	4
Title	Principal	Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization		BS / 2009 / Civil Engineering, LSU BS / 1996 / Microbiology, LSU	
Active registration number / state / expiration date		PE. PE #0039151 / LA / Exp. 3/31/2027 PLS #0004955 / LA / Exp. 3/31/2027 PE #122184 / TN / Exp. 1/31/2027 PE #32982 / MS / Exp. 12/31/2026	
Year registered	2006	Discipline	Professional Engineer / Professional Land Surveyor
Contract role(s) / brief description of responsibilities		Survey & Title Work Services	
Experience dates	Experience and qualifications relevant to the proposed contract		
 Mr. Estopinal has 19 years of experience as a PLS in Louisiana managing transportation and community development-related projects for private clients, MoveBR, and LADOTD. His survey experience includes Boundary, Topographic, As-Built and ALTA Surveys, Right-of-Way Mapping, Construction Layout, and control for aerial survey and mapping.			
08/20– 04/24	44-17597 - Rural Bridge Replacement Initiative, LADOTD, Districts 03, 07, 61, 62. QA/QC. SJB Group performed topographic surveying, property surveying, right-of-way maps, and roadway design of 33 bridge replacements in Districts 03, 07, 61, and 62 as a sub-consultant to Burk-Kleinpeter within their contract with LA DOTD. The Surveys were provided in accordance with the current Locations and Survey Manual and Addendum A.		
07/21 –10/23	Project No. H.004100.5 – I-10: LA 415 to Essen on I-10 and I-12, LADOTD, Baton Rouge, LA. QA/QC. SJB Group provided a Property Survey and Right-of-Way Mapping for approximately 4 miles of I-10 as well as multiple intersecting streets, for which a property map was created that encompassed the parcels affected by acquisition and accessibility.		
04/23 – 09/23	Project No. H.017322.5 – Morgan City Sidewalks & Shared Use Path, LADOTD, St. Mary Parish. QA/QC. Sub to Digital Engineering. This project included Right-of-Way Mapping, Topographic Surveying, and Subsurface Utility Engineering to assist in the installation of handicapped ramps, drainage structures, and sidewalk improvements. This project included sidewalk and crosswalk evaluations, and design improvements to ADA Standards.		
08/24 – Ongoing	Project No. H.003931 – I-10 Calcasieu River Bridge P3 Project, LADOTD, Calcasieu Parish, LA. Survey Support/ QA/QC. SJB Group provided an additional Topographic Survey, a Property Survey and Right-of-Way Mapping for this project which is the largest in LADOTD history. This project covers a 5.5 mile stretch of Interstate 10 and includes 15 bridges and 19 ramps. Assisted with title research and boundary analysis, overseeing field activities and supervising the preparation of the primary control sketch, property survey and base right-of-way maps, providing QA/QC for all activities.		

03/22 – 08/23	Project No. H.012685.5 – LA 385: Ryan Street Intersection Improvements, LADOTD, Calcasieu Parish, LA. QA/QC. Topographic Survey in Calcasieu Parish near the intersection of I-210 and LA 385 near the campus of McNeese State University. The survey data was collected utilizing mobile lidar methodologies and supplemented by conventional data collection in specified areas.
07/21 – 02/22	Project No. H.013715.5 – LA 77 Union Pacific Railroad Crossing (Iberville), LADOTD, Iberville, LA. QA/QC. This project consisted of Property Surveying, Right-of-Way Mapping and Topographic Surveying for a project that included the depiction of a railroad right-of-way, state-maintained highway, and city streets. The project included preparation of a Property Map, Base Right-of-Way Maps, Final Right-of-Way Maps and the creation of a parcel input file for acquisition descriptions of the subject area.
07/21 – 08/22	Project No. H.002176.50 – LA 10 Bridges, LADOTD, St. Landry Parish, LA. QA/QC. The LA 10 Bridges project in St. Landry Parish included Property Surveying and Right-of-Way Mapping for three sites. The property survey depicted the affected properties, the existing Right-of-Way for LA Hwy 10, and multiple state-claimed water bodies.
07/21 – 10/21	Project No. H.007963 – Blackwater Bayou Bridge, LADOTD, East Baton Rouge Parish, LA. Project Manager/QA/QC. This project required replacement of the Bayou River Bridge and a diversion road during construction along LA Hwy 410 in East Baton Rouge Parish near the City/Town of Central. This project involved Property Surveys, Right-of-Way maps, and title take-offs.
10/23 – 04/25	Project No. H.15487.5 – New Orleans Pedestrian Improvements. LADOTD, New Orleans, LA. QA/QC. SJB Group Conducted Mobile LiDAR scanning for the project which included a Topographic Survey and right-of-way mapping of fifty-five intersections in the downtown area of New Orleans, Louisiana. Additionally, the project included the determination of the existing right-of-way for the specific streets and La DOTD roadways.
07/21 – 05/24	H.012001 LA 339: Canal & Creek Bridges, LADOTD, Vermillion Parish, LA. QA/QC. The project required the removal and replacement of bridge structures along LA 339 in Vermillion Parish near the Town of Erath. The project encompassed 3 separate sites that required property surveys including right-of-way determination and property analysis. The property map set was produced in accordance with La DOTD requirements
09/16 – 09/18	Project No. H.012232 – LA 3064 to LA 1428 Phase II, LADOTD, East Baton Rouge, LA. Surveyor of Record/Project Manager. This project in East Baton Rouge Parish included Property Surveying and Right-of-Way Mapping for the proposed Dijon Drive Extension. The proposed right-of-way was utilized to prepare Base Right-of-Way Maps. Final Right-of-Way Maps and parcel input file descriptions for acquisition parcels. All surveying was performed to La DOTD Location & Survey Section requirements.

Firm employed by. SAM Formerly SJB Group (Formerly SJB)				
Name	Karen Kennedy, PE		Years of relevant experience with this employer	4
Title	Senior Project Manager		Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization		BS / 1995 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date		PE. 0028547 / LA / Exp. 09/30/2027		
Year registered	1999	Discipline	Professional Engineer	
Contract role(s) / brief description of responsibilities		Survey & Title Work Services		
Experience dates	Experience and qualifications relevant to the proposed contract			
	Ms. Kennedy has over 26 years of experience as a licensed civil engineer working in both the municipal and private sectors. Ms. Kennedy has completed infrastructure improvement, site development and subsurface utility engineering (SUE) projects for LA DOTD, MOVEBR, and other local entities and private developers. She has a thorough knowledge of the Subsurface Utility Engineering CI/ASCE Standard 38-22.			
08/24–Ongoing	Project No. H.003931 Calcasieu River Bridge Public, LADOTD, Calcasieu, LA. Utility Coordinator. SAM, LLC is providing Utility Coordination for the I-10 Calcasieu River Bridge project—LADOTD’s largest to date. Coordination supports utility relocations in a dense industrial corridor, ensuring timely construction and budget compliance throughout project duration.			
02/23 – 05/25	East Baton Rouge Parish Flood Risk Reduction Project on Jones Creek Channel Improvements, East Baton Rouge Parish, LA. Engineer of Record. This project required Quality Level “B” Subsurface Utility Engineering including all subsequent Quality Levels for approximately 4.2 miles of channel improvements along upper Jones Creek and several of its tributaries. SJB Group assisted in development of the project scope to meet all the needs for completion of this critical project. Extensive records research was performed to note all utilities throughout the project limits. Quality Level “B” designating was performed at all bridge crossings along the channel to locate all utility lines. In addition, any standalone utility lines discovered during records research that intersected the channel were investigated to achieve Quality Level “B” data. SJB Group was also tasked with providing Utility Coordination during the design phases of the project.			
08/21 – 04/24	City/Parish Project No. 20-CP-HC-0044 – MOVEBR Widening of Lee Drive (Highland to Perkins), City of Baton Rouge, Louisiana. SUE Engineer. This project involved ASCE 38-02 Quality Level C SUE services for all utilities within the project corridor as a sub-consultant. Prior to Quality Level C services, extensive Quality Level D records research was completed to aid in the subsequent SUE design. This corridor is heavily congested with utilities making the accurate location of such a critical part of the ultimate design of the project.			
11/20 - 06/24	State Project No. H.013029 Control Section No. 454-01 I-12 @ Sherwood Forest Ped/Bike Safety, City of Baton Rouge and LADOTD, Baton Rouge, LA. Engineer of Record. This project consisted of a topographic survey, utility investigation and engineering design for multiuse paths on both sides of S. Sherwood Forest Boulevard extending from S. Harrell’s Ferry Road northward to Old Hammond Hwy. The project aimed to not only improve pedestrian and bicycle mobility by connecting to the existing bike lanes north of Old Hammond Hwy but also had a goal of improving pedestrian safety especially at interstate			

	interchanges. Working with MOVEBR and LA DOTD, SJB along with Gresham Smith developed appropriate pedestrian crossings to minimize impact on vehicular traffic, while also greatly enhancing overall safety. The project is the first of its kind for this type of interstate crossing in Baton Rouge and the surrounding regions.
10/22 – 05/23	City-Parish Project No. 20-CP-US-0099 – MOVEBR Airline Highway, North (Florida Blvd to Interstate I-110) , City of Baton Rouge. <i>SUE Department Manager/Engineer of Record.</i> SJB Group completed ASCE 38-02 Quality Level D services for the project. There is a heavy congestion of utilities within these project limits and identification of utility owners and approximate locations is critical to the preliminary design of the project.
08/22 – 09/23	Task Order No. H.001820.5-3 – LA 485 Bridges Near Allen Construction Inspection, LADOTD. <i>SUE Project Manager.</i> SJB Group provided construction coordination and monitoring for the relocation of three water mains in conflict with the project alignments at three bridge locations.
04/22 – 03/23	City-Parish Project No. 20-CP-US-0100 – MOVEBR Airline Highway, South (Parish Line to Bluebonnet Blvd), City of Baton Rouge. <i>SUE Department Manager/Engineer of Record.</i> SJB Group will complete ASCE 38-02 Quality Level D services for the project. There is a heavy congestion of utilities within these project limits and identification of utility owners and approximate locations is critical to the preliminary design of the project.
04/22 – 11/22	Project No. H.031797 – LA30: EBR PL I-10, LADOTD, East Baton Rouge Parish, LA. <i>SUE Department Manager/Engineer of Record.</i> SJB Group was contracted to provide Property Surveys, GIS, LiDAR Scanning, and SUE to further the feasibility studies of the LA 30 corridor from the East Baton Rouge Parish Line to I-10 in Gonzales. This corridor is a key industrial corridor for rail and freight traffic and needs significant additional roadway capacity. Careful planning was required to ensure a successful project addressing all potential impacts including existing utilities which is often the driving factor in the design of a project. This project required ASCE 38-02 Quality Level “D” services throughout the entire project limits. Due to the significant number of pipelines within the corridor, SJB Group also conducted field observations to determine the order of the pipelines within the right-of-way. These field observations of pipeline markers resulted in several additional pipelines being identified beyond the records that were received.

Firm employed by. SAI Formerly SJB Group (Formerly SJB)				
Name	Bradley C. Jacobs, EI		Years of relevant experience with this employer	<1
Title	Senior Technician		Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization		BS / 2015 / Civil Engineering, LSU		
Active registration number / state / expiration date		EI.0032456 / LA / Exp. 09/30/2027		
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities		Survey & Title Work Services		
Experience dates	Experience and qualifications relevant to the proposed contract			
		Mr. Jacobs has over 5 years of experience as a surveying and engineering professional with extensive experience in transportation, infrastructure, and airport projects. His experience includes land surveying and subsurface utility engineering for Louisiana DOTD initiatives, while also providing engineering support for residential developments. His versatility and precision have made him a trusted contributor across multiple sectors.		
01/26 – Ongoing	Project No. H.005121 LA 415 Connector – I-10 to LA 1, LADOTD, East Baton Rouge Parish, LA. Senior Survey Technician. Established control points, performed construction staking for roadway, drainage, and utilities, and verified grades to verify compliance with design plans. They conducted as-built surveys, maintained accurate field data, and operated GPS and total station equipment. The role also included supervising survey crews and coordinating with engineers and contractors. Their work confirmed precise alignment, elevation accuracy, and adherence to DOTD standards throughout construction.			
09/25 – 01/26	Office of Louisiana Highway Construction Bridge Bundle 6 - O.B.2025.03.048, LADOA, Vermilion Parish, LA. Senior Survey Technician. This project is a complete topography and property survey for seven bridges. Responsibilities included coordination with crews, processing of control and topography, calculating property and right of way, and creating survey control, topographic survey, and property survey packets for submittal and review by supervising professional.			
09/25 – 01/26	Project No. H.000112 US 190: UPRR Overpass, LADOTD, Opelousas. LA. Survey Technician. This project is a complete topography for the I-49 and the UPRR Railroad Bridge in Opelousas. This also included topography for the US 190 and Bayou Teche Bridge Replacement. Responsibilities included coordination with crews, topography, reviewing and importing of Mobile LiDAR data, and creating topographic surveys, packet for submittal and review by supervising professionals.			
09/25 – 10/25	Office of Louisiana Highway Construction Bridge Bundle 6 - O.B.2025.03.047, LADOA, Vermilion Parish, LA. Senior Survey Technician. This project is a complete topography and property survey for a single bridge. Responsibilities included coordination with crews, processing of control and topography, calculating property and right of way, and creating survey control, topographic survey, and property survey packets for submittal and review by supervising professional.			
02/23 – 12/23	Project No. H.012027.5 - I-20 UPRR, LADOTD, Caddo Parish, LA. Survey Technician. Topographic Survey for the interstate in North Louisiana. Both traditional means and methods and 3D Scanning were used to collect topographic data for this interstate and overpass improvement project. This project also included coordinate and survey of the Union Pacific Railroad line crossing I-20. Project was completed to LADOTD Location and Survey Standards and practices.			

04/21 – 06/21

Project No. H.01689 - LA 182 @ LA 723 Roundabout , LADOTD, Lafayette Parish, LA. *Survey Technician*. Performed field data collection for topographic and property surveys, establishing survey control and centerlines using GPS and traditional methods. Responsibilities included recovering property corners, locating utilities, and assisting with right-of-way mapping for design purposes. The technician processed field data, verified accuracy, and prepared survey packets for review in compliance with DOTD standards and project requirements.

Firm employed by.



(Formerly SJB)

Name	Daniel Biggs	Years of relevant experience with this employer	2
Title	Party Chief	Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization	N/A		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Survey & Title Work Services		
Experience dates	Experience and qualifications relevant to the proposed contract		
	Mr. Biggs has over two years of experience as a Survey Party Chief. He has experience performing Boundary Surveys, Construction Stakeout, As-Built Surveys, ALTA Surveys, Topographic Surveys, Hydrographic Surveys, and Right-of-Way Surveys using both conventional and GPS instruments throughout the state of Louisiana. He is knowledgeable with several Leica Geosystems such as the ScanStation C10 3D Laser Scanner, TS16 Robotic Total Station, GS18 GNSS RTK Rover, and the Viva GS16 GNSS rover. His responsibilities include conducting site visits, gathering field data including measurements and other descriptive data as requested, operating surveying equipment, setting stakes and field markings, and performing both equipment and vehicle maintenance as needed.		
	09/25 – 12/25	Office of Louisiana Highway Construction Bridge Bundle 6 - O.B.2025.03.048, LADOA, Vermilion Parish, LA. <i>Party Chief.</i> The project is a complete topography and property survey for seven bridges. Responsibilities included coordination with crews, processing of control and topography, calculating property and right of way, and creating survey control, topographic survey, and property survey packets for submittal and review by supervising professional.	
	10/23 – 12/24	Project No. H.012052 LA 3092 Gauthier Road @ Lake Street Roundabout, LADOTD, Calcasieu Parish, LA. <i>Party Chief.</i> The project was performed for construction of a new roundabout at the intersection of LA 3092 (Gauthier Road) and Lake Street in Calcasieu Parish. A property survey was necessary for each required parcel for the preparation of a right-of-way map set. The project included the determination of the existing right-of-way of the subject roadways and property analysis.	
	10/23 – 12/24	Project No. H005121.5 LA 1 – LA 415 Connector, LADOTD, Port Allen / West Baton Rouge Parish, LA. <i>Party Chief.</i> The project was a topographic survey by conventional survey methods and mobile LiDaR Scanning for the design of a roadway to connect LA 415 to LA 1. The project is a supplement to previously performed surveying for the realignment of the project due to recent development and construction. The project limits include areas of roadway into forested lands, agricultural fields, residential, commercial, industrial, and retail areas.	
	03/25 – 10/25	City of Lafayette Project No. 25-1130-0013 – Doucet Road Sidewalks, City of Lafayette, Lafayette, LA. <i>Party Chief.</i> Directed field survey operations for topographic surveys per DOTD standards, maintaining accurate establishment of centerlines, benchmarks, and survey control using GPS observations. Responsibilities included supervising crew activities, running traverses, staking centerlines, and verifying utility locations within construction limits. Maintained compliance with the DOTD Location and Survey Manual, coordinated with project managers, and reviewed field data for accuracy prior to submission.	
	11/23 – 04/25	Project No. H.15487.5 – New Orleans Pedestrian Improvements, LADOTD, New Orleans, LA. <i>Party Chief.</i> The project included a Topographic Survey of fifty-five intersections in the downtown area of New Orleans, LA. The purpose of the project was to upgrade and construct pedestrian sidewalk crossings to ADA standards. The field data was collected via Mobile LiDAR Scanning utilizing a Trimble MX -50 and supplemented with conventional survey methods.	

Firm employed by.  Formerly SJB Group (Formerly SJB)				
Name	Erick Kidder		Years of relevant experience with this employer	2
Title	Party Chief		Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization		N/A		
Active registration number / state / expiration date		N/A		
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities		Survey & Title Work Services		
Experience dates	Experience and qualifications relevant to the proposed contract			
 Mr. Kidder has 12 years as a Party Chief. His survey experience includes Boundary, Topographic, As-Built and ALTA Surveys, Right-of-Way Mapping, Construction Layout, and control for aerial survey and mapping using both conventional and GPS instruments. He is knowledgeable with several Leica Geosystems such as the ScanStation C10 3D Laser Scanner, TS16 Robotic Total Station, GS18 GNSS RTK Rover, and Viva GS16 GNSS rover.				
09/25 - 10/25	Office of Louisiana Highway Construction Bridge Bundle 6 - O.B.2025.03.047, LADOA, Vermilion Parish LA. <i>Party Chief.</i> The project is a complete topography and property survey for a single bridge. Responsibilities included coordination with crews, processing of control and topography, calculating property and right-of-way, and creating survey control, topographic survey, and property survey packets for submittal and review by supervising professional.			
09/25 – 01/26	Office of Louisiana Highway Construction Bridge Bundle 6 - O.B.2025.03.048 , LADOA, Vermilion Parish, LA. <i>Party Chief.</i> The project is a complete topography and property survey for seven bridges. Responsibilities included coordination with crews, processing of control and topography, calculating property and right of way, and creating survey control, topographic survey, and property survey packets for submittal and review by supervising professional.			
10/23 – 12/24	Project No. H.012052 LA 3092 Gauthier Road @ Lake Street Roundabout, LADOTD, Calcasieu Parish, LA. <i>Party Chief.</i> The project was performed for construction of a new roundabout at the intersection of LA 3092 (Gauthier Road) and Lake Street in Calcasieu Parish. A property survey was necessary for each required parcel for the preparation of a right- of-way map set. The project included the determination of the existing right-of-way of the subject roadways and property analysis.			
10/23 – 12/24	Project No. H005121.5 LA 1 – LA 415 Connector, LADOTD, Port Allen / West Baton Rouge Parish, LA. <i>Party Chief.</i> The project was a topographic survey by conventional survey methods and mobile LiDaR Scanning for the design of a roadway to connect LA 415 to LA 1. The project is a supplement to previously performed surveying for the realignment of the project due to recent development and construction. The project limits include areas of roadway into forested lands, agricultural fields, residential, commercial, industrial, and retail areas.			
11/23 – 04/25	Project No. H.15487.5 – New Orleans Pedestrian Improvements, LADOTD, New Orleans, LA. <i>Party Chief.</i> The project included a Topographic Survey of fifty-five intersections in the downtown area of New Orleans, LA. The purpose of the project was to upgrade and construct pedestrian sidewalk crossings to ADA standards. The field data was collected via Mobile LiDAR Scanning utilizing a Trimble MX -50 and supplemented with conventional survey methods.			

04/23 – Ongoing	City-Parish Project No. 21-DR-US-0038 – EBRP Flood Risk Reduction Project for Beaver and Blackwater Channel Improvement, East Baton Rouge Parish, Baton Rouge, LA. <i>Party Chief</i>. The project included Topographic Survey, Right-of-Way Mapping, Boundary Survey, Title Review, and Subsurface Utility Engineering for approximately 25 miles of proposed channel improvements.
03/23 - Ongoing	Project No. H.004100 - I-10: LA 415 to Essen, LADOTD, Baton Rouge, LA. <i>Party Chief</i>. The project included a property survey and extensive right-of-way mapping for approximately 4 miles of I-10 as well as multiple intersecting streets, for which a property map was created that encompassed the parcels affected by acquisition and accessibility.

Firm employed by. SAI Formerly SJB Group (Formerly SJB)				
Name	Kenneth Gaines		Years of relevant experience with this employer	3.5
Title	SUE Technician III		Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization		N/A		
Active registration number / state / expiration date		N/A		
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities		Survey & Title Work Services		
Experience dates	Experience and qualifications relevant to the proposed contract			
		Mr. Gaines has over eight years of experience in Subsurface Utility Engineering (SUE) and surveying with a strong background in transportation and municipal infrastructure projects. He specializes in ASCE 38-02 Quality Level A–D investigations, utility designation using GPR and electromagnetic methods, and supporting topographic surveys for Louisiana DOTD initiatives. His expertise in managing roadway projects and delivering accurate utility mapping has made him a trusted resource for design and construction across diverse environments.		
09/25 – Ongoing		Project No. H.000112 US 190: UPRR Overpass, LADOTD, Opelousas Parish, LA. SUE Technician III. The project is a complete topography for the I-49 and the UPRR Railroad Bridge in Opelousas. Included also topography for the US 190 and Bayou Teche Bridge Replacement. Responsibilities included coordination with crews, topography, reviewing and importing of Mobile LiDAR data, and creating topographic surveys, packet for submittal and review by supervising professionals.		
11/24 – 01/25		I-49 Connector- Soil Borings, LADOTD, Lafayette, LA. SUE Technician III. Performed a utility investigation to achieve QL-B data by designating/marketing utilities within a 25 ft radius of 36 soil boring/CPT sites by applying an appropriate suite of electromagnetic and GPR equipment. Included QL B–D investigation per ASCE 38-02		
10/23 – 12/24		Project No. H.005121.5 LA1 – LA415 Connector, LADOTD, Port Allen / West Baton Rouge Parish, LA. Project Manager. The project was a topographic survey by conventional survey methods and mobile LiDAR Scanning for the design of a roadway to connect LA 415 to LA 1. The project is a supplement to previously performed surveying for the realignment of the project due to recent development and construction. The project limits include areas of roadway into forested lands, agricultural fields, residential, commercial, industrial, and retail areas.		
05/24 – 08/25		City of Ville Platte - Morganza to Gulf SUE , Ville Platte, LA. SUE Technician III. Performed Quality Level B-D investigations per CI/ASCE 38-02, designated/marked utilities using GPR, electromagnetic equipment, and other geophysical methods. Supported surveyor operations.		
01/20 – 08/24		Ascension Parish Project No. MA-19-03, Roddy Road to LA 933, Ascension Parish, LA. SUE Technician III. Performed QL A–D investigations per CI/ASCE 38-02 for a single-lane roundabout. Supported surveyor operations using Leica TS16, RTK, GPR, Geophysical Equipment, & Vacuum Excavation.		

Firm employed by. SAM Formerly SJB Group (Formerly SJB)				
Name	Marshall Pounds		Years of relevant experience with this employer	2
Title	Utility Coordinator Specialist		Years of relevant experience with other employer(s)	26
Degree(s) / Years / Specialization		N/A		
Active registration number / state / expiration date		N/A		
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities		Survey & Title Work Services		
Experience dates	Experience and qualifications relevant to the proposed contract			
		Mr. Pounds has over 25 years in the utility locating and construction industry. Mr. Pounds is a utility research specialist with a vast database of utility providers and contacts. He is tasked with records research, supporting field efforts, organization and processing of field data, client coordination, and preparation of project deliverables. He has a thorough knowledge of the Subsurface Utility Engineering CI/ASCE Standard 38-22 Standard Guideline for Investigating and Documenting Existing Utilities.		
08/24 – Ongoing	Project No. H.003931 Calcasieu River Bridge Public, LADOTD, Calcasieu, LA. SUE Field Manager. Provided Utility Coordination for the I-10 Calcasieu River Bridge project—LADOTD’s largest to date. Coordination supports utility relocations in a dense industrial corridor, maintaining timely construction and budget compliance throughout project duration.			
10/23 – 12/24	MA-23-06 LA 73 at LA 74 Roundabout, Parish of Ascension, Louisiana. SUE Field Manager. The project included a Property Survey, Topographic Survey, Right-of-Way Mapping, Quality Level “B” Subsurface Utility Engineering, and Quality Level “A” Subsurface Utility Engineering, for a proposed roundabout at the intersection. Utilities included water, gas, telephone, electric, cable, and fiber optic. Topographic survey, geophysical investigation and the utility records were used to complete the drawings prepared in accordance with ASCE 38-02 standards. Engineering judgement was used to correlate records and above ground surveyed features.			
10/23 – 08/24	MA-22-04 LA 73 at Cornerview Roundabout, Parish of Ascension, Louisiana. SUE Technician. Property Survey, Topographic Survey, Right-of-Way Mapping, Quality Level “B” Subsurface Utility Engineering, Drainage Design, Quality Level “A” Subsurface Utility Engineering, Geotechnical Investigation, Roundabout Report, Preliminary and Final Design Plans for a proposed roundabout at the intersection. Utilities included water, gas, telephone, electric, cable, and fiber optic. Topographic survey, geophysical investigation and the utility records were used to complete the drawings prepared in accordance with ASCE 38-02 standards. Engineering judgement was used to correlate records and above ground surveyed features.			
08/21 – 04/24	City/Parish Project No. 20-CP-HC-0044 – MOVEBR Widening of Lee Drive (Highland to Perkins), City of Baton Rouge/ Parish of East Baton Rouge. SUE Field Manager. The project involved ASCE 38-02 Quality Level C SUE services for all utilities within the project corridor as a sub-consultant. Prior to Quality Level C services, extensive Quality Level D records research was completed to aid in the subsequent SUE design. The corridor is heavily congested with utilities making the accurate location of such a critical part of the ultimate design of the project.			

10/22 – 05/23

City-Parish Project No. 20-CP-US-0099 – MOVEBR Airline Highway, North (Florida Blvd to Interstate I-110), City of Baton Rouge/ Parish of East Baton Rouge. *SUE Field Manager.* SJB Group completed ASCE 38-02 Quality Level D services for the project as a sub-consultant to Huval & Associates. There is a heavy congestion of utilities within these project limits and identification of utility owners and approximate locations is critical to the preliminary design of the project.

Firm employed by.



(Formerly SJB)

Name	Philip Dowden	Years of relevant experience with this employer	3
Title	Field Crew Manager	Years of relevant experience with other employer(s)	26
Degree(s) / Years / Specialization	N/A		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Survey & Title Work Services		
Experience dates	Experience and qualifications relevant to the proposed contract		
	Mr. Dowden has more than 27 years of experience in the survey field. He is knowledgeable in a variety of software including Trimble Business Center, POSpac MMS, TopoDOT, OpenRoads Designer, LadybugCapPro, IrfanView 64, and Quick Terrain Modeler. He is also thoroughly knowledgeable in a variety of equipment, such as the Trimble MX50 and tertiary equipment such as DMI, Ladybug, and Leica Base Positioning, Faro S350, Geoslam, and compact microdrones with Teledyne LiDAR, amongst others.		
	03/23 – Ongoing	Project No. H.004100 - I-10: LA 415 to Essen, LADOTD, Baton Rouge, LA. Field Crew Engineer. The project included a property survey and extensive right-of-way mapping for approximately 4 miles of I-10 as well as multiple intersecting streets, for which a property map was created that encompassed the parcels affected by acquisition and accessibility.	
	08/22 – 04/24	44-17597 - Rural Bridge Replacement Initiative, Districts 03,07, 61,62, LADOTD, Statewide, LA. Survey Technician. Provided survey support for a topographic survey, property survey, right-of-way mapping, and roadway design for bridge replacements in Districts 03, 07, 61, and 62	
	09/25 – 01/26	Office of Louisiana Highway Construction Bridge Bundle 6 - O.B.2025.03.048, LADOA, Vermilion Parish, LA. Field Crew Manager. The project is a complete topographic, hydrographic/bathymetric, and property survey for seven bridges. Led and coordinated multiple survey crews, maintaining proper execution of survey control, topographic, and bathymetric data collection in accordance with project standards and safety requirements. Oversaw field operations related to property and right-of-way data acquisition, verified accuracy and completeness of collected data, and coordinated closely with office staff to support processing and preparation of survey control, topographic, hydrographic/bathymetric, and property survey packets for submittal and professional review.	
	03/22 – 08/23	Project No. H.012685.5 – LA 385: Ryan Street Intersection Improvements, LADOTD, Calcasieu Parish, LA. Mobile LiDAR Lead. The project included a Topographic Survey in Calcasieu Parish near the intersection of I-210 and LA 385. The survey included all utilities, drainage, and finish floor elevations of buildings that fell within the survey limits. LiDAR Data was gathered using a Velodyne Mobile Scanner Terrestrial Surveying was performed using a Leica TS16 Robotic Total Station and a Leica GS18 T GNSS RTK Rover. Data was processed using OpenRoads Designer TopoDOT and InSuite MicroStation.	
	03/15 – 08/15	Multiple Vessels, Alaska. Hydrographic Survey Operations Specialist. Participated in the mobilization and support of multiple vessels associated with the Shell Arctic Campaign. Responsibilities included assisting with vessel mobilization activities, coordinating survey and marine equipment deployment, and supporting operations involving EchoScope sonar systems	

	mounted on remotely operated vehicles (ROVs). Contributed to successful offshore operations by overseeing proper installation, configuration, and functionality of specialized hydrographic and subsea survey equipment across various vessels.
10/14 – 11/14	Vissollela, Angola, Africa. Hydrographic Survey Operations Specialist. Conducted an EchoScope sonar survey aboard an ROV to support subsea mapping operations associated with FPSO infrastructure. Responsibilities included operating and supporting EchoScope systems to map 62 subsea trenches connected to FPSOs, maintaining accurate data acquisition and coverage. Contributed to offshore survey operations by supporting ROV deployment, monitoring data quality, and assisting with coordination between survey personnel and vessel operations.
09/14 – 09/14	Plant Survey, Lake Charles, LA. Hydrographic Survey Operations Specialist. Supported an EchoScope sonar survey project focused on analyzing erosion caused by plant runoff from culverts. Responsibilities included assisting with EchoScope data acquisition and field operations to map and assess erosion patterns and sediment displacement. Contributed to data quality control and survey support activities to achieve accurate evaluation of runoff impacts on surrounding infrastructure.

Firm employed by.  Formerly SJB Group (Formerly SJB)				
Name	Trenten Norris		Years of relevant experience with this employer	<1
Title	Senior Technician		Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization		N/A		
Active registration number / state / expiration date		N/A		
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities		Survey & Title Work Services		
Experience dates	Experience and qualifications relevant to the proposed contract			
 Mr. Norris has over 12 years of survey experience and has over 10 years of experience managing Transportation-related surveying projects with Remote Sensing including multiple projects for the Louisiana Department of Transportation (LADOTD), City of Baton Rouge, City of Kenner, and City of New Orleans.				
01/26 – Ongoing	Project No. H.005121 LA 415 Connector – I10 to La 1, LADOTD, Port Allen / West Baton Rouge Parish, LA. Senior Survey Technician. Supported construction by assisting with survey layout, topo data extraction, and operating GPS and total station equipment. Performed grade checks, collected and processed field data, and maintained accurate survey records. The role included coordinating with the survey crew and project team to maintain compliance with plans and specifications. The work contributed to construction accuracy and compliance with DOTD standards.			
09/25 – 01/26	Office of Louisiana Highway Construction Bridge Bundle 6 - O.B.2025.03.048, LADOA, Vermilion Parish, LA. Project Manager. The project is a complete topography and property survey for seven bridges. Responsibilities included coordination with crews, processing of control and topography, calculating property and right of way, and creating survey control, topographic survey, and property survey packets for submittal and review by supervising professional.			
10/23 – 04/24	Project No. H.011235 Verot School Road, LADOTD, Lafayette, LA. Senior Technician/Party Chief. Oversaw and coordinated all topographic field work which include traditional means and methods, 3D Terrestrial Scanning, and coordination with the SUE Consultant on the project. The project was for interchange for the at Verot School Road and Future I49 corridor. Other duties were reviewing all the Title Take offs, Title reports, property surveys, and base Right-of-Way maps.			
01/18 – 01/20	Project No. H. 004100 I-10: LA 415 to Essen Lane on I-10 and I-12, LADOTD, Baton Rouge, LA. Senior Technician/Party Chief. The project consists of Freeway widening by the addition of one travel lane to the westbound (WB) direction of I-10 from Washington Street to College Drive and one travel lane to the eastbound (EB) direction of I-10 from Washington Street to east of the I-10/I-12 split on I-10.			
08/21 – 04/24	Project No. H.011833.5 St. Mary Street Sidewalks, LADOTD, Scott, LA. Senior Technician/Party Chief for LiDAR crew Led field operations for LiDAR data collection to document existing sidewalk conditions along St. Mary Street for Project H.011833.5. Managed crew coordination, equipment setup, and quality compliance to make sure accurate, high-resolution scans for			

	sidewalk replacement planning. Processed and verified collected point-cloud data to support engineering design, alignment checks, and construction-ready documentation.
10/16 – 11/16	Project No. H.012728.5 LA 443 Emergency Bridge Replacement, LADOTD, Tangipahoa Parish, LA. <i>Senior Technician</i>. The project consisted of emergency replacement of at least four bridges along LA 443. Work included demolition of damaged structures, construction of new bridges meeting Ongoing safety standards, and implementation of roadway improvements. Technical operations were supervised to maintain compliance with specifications and environmental regulations. The project was completed under an accelerated schedule to restore safe and reliable transportation.

Firm employed by:



Name	Casey Floyd	Years of relevant experience with this employer	5
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	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Geotechnical Services		



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.

Experience dates	Experience and qualifications relevant to the proposed contract
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, LADOTD, Evangeline, Jackson, Rapides, Richland, St. Landry, Vernon, and Winn Parishes, LA. <i>Drilling Supervisor</i> . 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, LADOTD, Ascension Parish, LA. <i>Drilling Supervisor</i> . 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 / IJA: Off-System Bridges, LADOTD, Allen, Beauregard, and Calcasieu Parishes, LA. <i>Drilling Supervisor</i> . 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, LADOTD, Terrebonne Parish, LA. <i>Drilling Supervisor</i> . 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, LADOTD, Calcasieu Parish, LA. <i>Drilling Crew Chief</i> . 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, LADOTD, West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA. <i>Drilling Crew Chief</i>. 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), LADOTD, East Baton Rouge Parish, LA. <i>Drilling Crew Chief</i>. 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, LADOTD, Orleans Parish, LA. <i>Drilling Crew Chief</i>. 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), LADOTD, Lafayette Parish, LA. <i>Drilling Supervisor</i>. 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, LADOTD, Vicksburg, MS. <i>Drilling Supervisor</i>. 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.

Firm employed by:



Name	Jarmon King, PE	Years of relevant experience with this employer	7
Title	Project Engineer	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization	BS / 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	Geotechnical Engineering		
Experience dates	Experience and qualifications relevant to the proposed contract		
	Mr. King serves as a project engineer of Ardaman in the Baton Rouge office with over 8 years of experience. Mr. King is involved with overseeing and conducting geotechnical investigations. Mr. King also prepares soil boring logs; processes and analyzes Cone Penetration Test (CPT) sounding design and analyses of multiple types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA & 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, LADOTD, West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA. <i>Project Engineer</i> . 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), LADOTD, Baton Rouge Parish, LA. <i>Project Engineer</i> . 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	Rural Bridge Initiative Phase II, LADOTD, West Feliciana, East Feliciana, Livingston, and St. Bernard Parishes, LA. <i>Assistant Project Engineer</i> . 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.	

11/21 – Ongoing	SP NO. H.012030 / US 371: KCS Railroad Overpasses HBI, LADOTD, Webster Parish, LA. Assistant Project Engineer. The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Ardaman performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.
07/21 – 01/22	SP NO. H.003931 / I-10 Calcasieu River Bridge, LADOTD, 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 – 06/21	SP NO. H.002825 / Nicholson Drive (LA HWY 30) Segment 1, LADOTD, 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, LADOTD, 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, LADOTD, 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), LADOTD, East Baton Rouge Parish, LA. Assistant Project Engineer. Mr. King evaluated the laboratory test results and produced logs for the widening of the East and Westbound lanes, elevated structures, and construction of interchange and ramps on Westbound lanes along I-10 between LA 415 and Howard Street spanning approximately 1 mile. The geotechnical investigation included 58 deep borings and 11 cone penetrometer (CPT) soundings, associated laboratory testing and the preparation of a geotechnical data report.
03/25 – Ongoing	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, LADOTD, Rapides, Richland, Vernon, Winn, Evangeline, Jackson, and 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.
09/22 – 12/25	Evangeline Road & Cn Railroad Culvert, LADOTD, St. Charles Parish, LA. Project Manager. Ardaman completed subsurface exploration and geotechnical engineering evaluation. The project consists of the installation of two reinforced concrete box culverts (RCBCs) on the north and south sides of the CN Railroad as it crosses over Evangeline Road near Montz, Louisiana in St. Charles Parish. Ardaman performed the geotechnical fieldwork and engineering evaluation including recommendations for site preparation, shoring and bedding recommendations, and pavement design in a final report.

Firm employed by:



Name	Jessica N. Litt	Years of relevant experience with this employer	12
Title	Laboratory Manager	Years of relevant experience with other employer(s)	N/A
Degree(s) / Years / Specialization	B.S. / 2010 / Biology		
Active registration number / state / expiration date	NICET / Generalist, Laboratory No. 141243 / 10-01-2027		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Geotechnical Services		



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.

Experience dates	Experience and qualifications relevant to the proposed contract
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. <i>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.</i>
08/24 – Ongoing	SP NOs. H.015568.5, H.015569 / LA 44 Roundabouts & Widening: Ascension Parish, LA. <i>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.</i>
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. <i>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.</i>
07/23 – Ongoing	SP NOs. H.015489, H.015490, H.015491, H.015492 / IJA: Off-System BridGES: Allen, Beauregard, and Calcasieu Parishes, LA. <i>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</i>

	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.
11/21 – Ongoing	SP NO. H.012030 / US 371: KCS Railroad Overpasses HBI: Webster Parish, LA. <i>Laboratory Manager</i>. The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Ardaman performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.
10/18 – 06/21	SP NO. H.000263.5-1 / Chef Menteur Pass Bridge And Approach: Orleans Parish, LA. <i>Laboratory Technician</i>. 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.
09/22 – 12/25	Evangeline Road & CN Railroad Culvert: St. Charles Parish, LA. <i>Laboratory Technician</i>. Ardaman completed subsurface exploration and geotechnical engineering evaluation. The project consists of the installation of two reinforced concrete box culverts (RCBCs) on the north and south sides of the CN Railroad as it crosses over Evangeline Road near Montz, Louisiana in St. Charles Parish. Ardaman performed the geotechnical fieldwork and engineering evaluation including recommendations for site preparation, shoring and bedding recommendations, and pavement design in a final report.
11/15 – 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. <i>Laboratory Technician</i>. 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. <i>Laboratory Technician</i>. 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. <i>Laboratory Technician</i> 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. <i>Laboratory Manager</i>. 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.

Firm employed by.



Name	Mark Woodward, P.E.		Years of relevant experience with this employer	8
Title	Principal Engineer		Years of relevant experience with other employer(s)	36
Degree(s) / Years / Specialization			MS / 2019 / Risk Management, Notre Dame of Maryland University MS / 1986 / Civil Engineering, Tulane University BS / 1982 / Civil Engineering, Tulane University	
Active registration number / state / expiration date			PE. 24206 / LA / 9/30/2027	
Year registered	1991	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Geotechnical Engineering	
Experience dates	Experience and qualifications relevant to the proposed contract			
	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.			
04/21-01/25	SP No. H.013987 / Rural Bridges Phase I, LADOTD, Claiborne Parish, LA. <i>Principal Engineer</i> . The Rural Bridges project initiative consists of replacing many older bridges throughout the State of Louisiana. Provided review of the geotechnical design including pile foundations for 3 bridges.			
01/19-12/23	SP No. H.008226 / Cheniere Spillway & Bridge Replacement, LADOTD, Ouachita Parish, LA. <i>Principal Engineer</i> 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, LADOTD, Bossier Parish, LA. <i>Principal Engineer</i> . 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. Provided quality assurance oversight for this project, reviewing the work during the design and construction phase.			
05/18-08/19	SP No. H.011152.5 / I-12 Widening (US 190 to LA 59), LADOTD, St. Tammany Parish, LA. <i>Principal Engineer</i> . 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. Provided oversight to perform additional soil borings, lab testing and engineering analyses for a retaining wall for one of the bridge abutments.			

07/23-Ongoing	SP No. H.012030 / US 371: KCS Railroad Overpasses HBI, LADOTD, Webster Parish, LA. <i>Principal Engineer.</i> The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Ardaman performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.
05/18-08/19	SP No. H.011152.5 / I-12 Widening (US 190 to LA 59), LADOTD, St. Tammany Parish, LA. <i>Principal Engineer.</i> 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. Provided oversight to perform additional soil borings, lab testing and engineering analyses for a retaining wall for one of the bridge abutments.
05/18-09/19	SP No. H.001344 / US 190: LA 437 to USE 190 BUS (PH 1), LADOTD, St. Tammany Parish, LA. <i>Principal Engineer.</i> Provided technical oversight for this project which includes the widening of US 190 to a four-lane boulevard between US 437 and US 190.
05/18-07/18	IMTT Access Road Pavement, Avondale, Jefferson Parish, LA. <i>Principal Engineer.</i> 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, USACE, Orleans Parish, LA. <i>Chief of Structural Design.</i> 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. <i>Dam and Levee Safety Program Manager.</i> 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 verify 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, USACE, Plaquemines Parish, LA. <i>Lead Geotechnical Engineer.</i> In the aftermath of Hurricane Katrina, 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 that was coordinated pre-Katrina for Deep Mixing. Designed ground improvement and reviewed/ approved all construction submittals and oversaw construction.

Firm employed by: 			Meets MPR No. 9	
Name	Megan Bourgeois, PE		Years of relevant experience with this employer	20
Title	Principal Engineer / Assistant Branch Manager		Years of relevant experience with other employer(s)	N/A
Degree(s) / Years / Specialization		BS / 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 / 03-31-2028		
Year registered	2011	Discipline	Civil	
Contract role(s) / brief description of responsibilities		Geotechnical Engineering		
		Ms. Bourgeois has more than 20 years of experience with design and analyses of countless types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA & 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.		
Experience dates		Experience and qualifications relevant to the proposed contract		
07/23 – Ongoing		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 <i>helped oversee supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database</i> 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.		
10/09 – Ongoing		I-20 MISSISSIPPI RIVER BRIDGE REVIEW: Vicksburg, MS. Project Manager. Ms. Bourgeois <i>manages this multi-million-dollar, highly technical project</i> consisting of investigating movement of the I-20 Bridge in Vicksburg, MS. She managed a highly technical team including academia, experts, including <i>internationally recognized geotechnical engineers, geohydrologists, instrumentation specialists, and 3-D geotechnical modeling experts</i> . 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.
07/21 – 01/22	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	RURAL BRIDGE INITIATIVE PHASE II: West Feliciana, East Feliciana, Livingston, and 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	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.
07/15 – Ongoing	I-49 CONNECTOR (LAFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE): Lafayette Parish, LA. Project Engineer. Assisting the Program Manager in overseeing the geotechnical investigation and design of the 5 miles of freeway consisting of a 3.5-mile elevated structures that will include pile supported approach slabs, pile foundations, slope stability, embankment settlement, pavement design, advanced pile load test programs, and earth retaining structures. Overseeing laboratory program which will include a total of more than 400 borings including deep borings, shallow borings, and CPT soundings. Ms. Bourgeois is the project lead to develop the Geotechnical Investigation and Design Report.

Firm employed by:

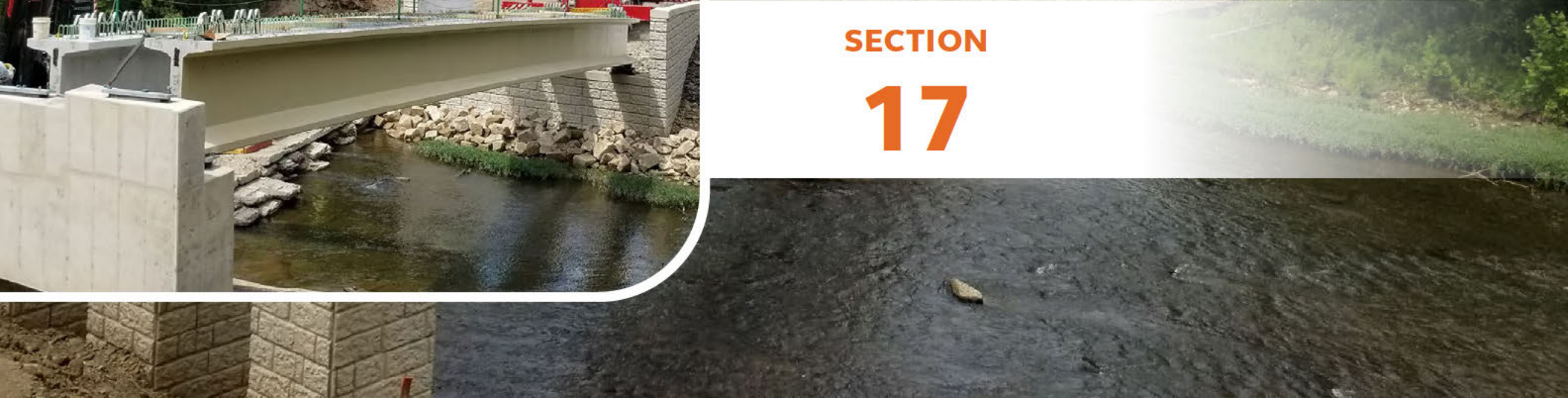


Name	Robert Jewell, PE	Years of relevant experience with this employer	19
Title	Project Engineer / Branch Manager	Years of relevant experience with other employer(s)	N/A
Degree(s) / Years / Specialization	BS / 2009 / Civil Engineering		
Active registration number / state / expiration date	38579 / LA / Exp. 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	Geotechnical Engineering		
	Mr. Jewell serves as the Branch Manager of our Baton Rouge office and has over 19 years of experience with design and analyses of countless types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA & 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.		
Experience dates	Experience and qualifications relevant to the proposed contract		
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. <i>Project Manager.</i> 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.		
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. <i>Project Manager.</i> The project consists of a Construction Management at Risk (CMAR) project. Mr. Jewell currently oversee all aspects of engineering analyses pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. Mr. Jewell helped develop the Geotechnical Data reports, memorandums, and Design reports for this project.		
06/20 – 06/21	NICHOLSON DRIVE (LA HWY 30) SEGMENT 1: East Baton Rouge Parish, LA. <i>Project Engineer.</i> This project consisted of the reconstruction and widening of a section of Nicholson Drive between the intersections of Brightside Lane and Burbank Drive for the MOVEBR Program. Thirteen shallow soil borings and two deep soil borings were drilled at the subject site and associated laboratory testing was performed. Engineering analyses included pavement and culvert crossing design recommendations in accordance with LADOTD specifications.		
11/21 – Ongoing	SP NO. H.012030 / US 371: KCS RAILROAD OVERPASSES HBI: Webster Parish, LA. <i>Project Manager.</i> The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Ardaman performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.		

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, and St. Bernard Parishes, LA. <i>Project Manager.</i> 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. <i>Project Manager.</i> This was a Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructing an interchange and access road from Interstate 20 in Bossier City, Louisiana. Mr. Jewell managed and oversaw the preparation of the preliminary design and planning report. Mr. Jewell also oversaw the field construction services consisting of PDA monitoring, bi-directional load cell load tests, and settlement monitoring. The PDA program consisted of monitoring PPC piles during initial drive and restrikes to allow for evaluation of setup and early acceptance of pile resistances.
10/15 – 10/21	SP NO. H.013579 / PECUE LANE I-10 INTERCHANGE: East Baton Rouge Parish, LA. <i>Project Engineer.</i> 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. <i>Project Manager.</i> 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. <i>Project Manager.</i> 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. <i>Project Engineer.</i> 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.



SECTION
17



Firm name	ARCADIS		Past Performance Evaluation Discipline(s)*	Bridge, Traffic, ITS, Other (Drainage), CEI/OV
Project name	I-10: LA 415 to Essen Lane on I-10 & I-12 (CMAR)		Firm responsibility (prime or sub?)	Sub
Project number	H.004100	Owner's name	Louisiana Department of Transportation and Development	
Project location	Baton Rouge, Louisiana		Owner's Project Manager	Nicholas Olivier
Owner's address, phone, email	1201 Capitol Access Rd, RM 602-L, Baton Rouge, LA 70802; 225 379 1331			
Services commenced by this firm (mm/yy)	10/20	Total consultant contract cost (\$1,000's)		\$20,000
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$2,500

Firms Members: Osama Shahawy, Kester Hollier, Jose Rodriguez, Ari Deitch, Colin Sarratt, Krishna Singaraju, Sushil Dhungana, Max Aguirre,

Firms Role: Bridge and structural design, permanent signing design, construction support, transportation management plan (TMP), interchange modification reports (IMRs).

Arcadis is delivering **bridge and structural design**, Interchange Modification Reports (IMRs), permanent signing plans, and a Transportation Management Plan (TMP) in full compliance with LADOTD and applicable federal requirements. The project advances the widening of I-10 from three to four lanes in each direction from LA 415 to Essen Lane, including **bridge replacement and rehabilitation**, interchange and ramp modifications, shoulder widening, and auxiliary lanes. All design activities are being developed in accordance with **LADOTD standards** and the established submittal, review, and approval processes, including coordination of TMP and IMR with LADOTD and FHWA. The RCP Plan Phase and Phase 1 Design are currently progressing for the corridor segment between the Mississippi River Bridge and Essen Lane, supporting staged delivery, design reviews, and regulatory approvals.

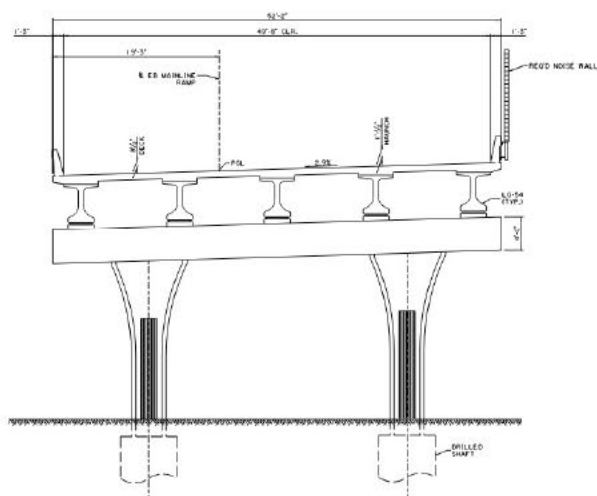
Bridge / Structural Design—Arcadis is responsible for the structural analysis and design of substructures for the Terrace–Washington mainline bridges and the I-110 ramp connection to the EB mainlines, including both temporary and permanent widening configurations. Substructure design, detailing, and load development are performed in

accordance with the **LADOTD Bridge Design and Evaluation Manual (BDEM) and the AASHTO LRFD Bridge Design Specifications, including requirements for strength, serviceability, and extreme-event** limit states. Modifications include the conversion of an existing ramp to a bridge structure by extending existing columns and installing new bent caps, with design criteria reviewed and approved per LADOTD submittal procedures.

Phased construction is incorporated into the design to maintain traffic operations, with temporary works and staging developed in accordance with DOTD constructability and maintenance-of-traffic requirements. Foundation layouts are developed consistent with LADOTD **Geotechnical Design guidelines and BDEM foundation provisions**, considering site-specific load demands, scour, and subsurface conditions. The final structural and geometric configuration accommodates the Greenway shared-use path beneath the mainline structures while maintaining required horizontal and vertical clearances per LADOTD roadway and bridge design criteria.

Relevant Services

- Bridge and Structural Design
- Traffic Study and Design
- Construction Cost Estimate
- Transportation Management Plan
- Stakeholder and Agency Coordination



Firm name			Past Performance Evaluation Discipline(s)*	Bridge, Road, Traffic, Environmental
Project name	Chef Menteur Bridge and Approaches, Route US 90		Firm responsibility (prime or sub?)	Prime
Project number	H.000263.2	Owner's name	Louisiana Department of Transportation and Development (LADOTD)	
Project location	Orleans Parish, LA		Owner's Project Manager	Nikki Leon / Irina Sorset
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225 242 4514, nikki.leon@la.gov (irina.sorset@la.gov)			
Services commenced by this firm (mm/yy)	08/11	Total consultant contract cost (\$1,000's)		\$1,118
Services completed by this firm (mm/yy)	11/14	Cost of consultant services provided by this firm (\$1,000's)		\$879

Firm Members Involved: Akhil Chauhan, David Fulks

Firm's Role: Bridge and roadway design, roundabout evaluation, complete streets analysis, bridge type/lifecycle cost assessment; typical sections, bridge and road line and grade, horizontal and vertical design services, preliminary construction cost estimate based on LADOTD pay items and unit cost prices.

Arcadis supported LADOTD by developing preliminary design layouts for the replacement of the existing US 90 swing-span bridge over Chef Menteur Pass in Orleans Parish, as part of an Environmental Assessment. The effort advanced *three alignment alternatives and both movable- and fixed-span bridge* concepts, enabling LADOTD to evaluate tradeoffs in constructability, navigational clearance, lifecycle cost, and environmental impacts. Design development was performed in strict accordance with *LADOTD Design Guidelines, EDSMs, and the Road and*

Bridge Design Manuals, verifying immediate compatibility with downstream design and permitting requirements. These deliverables provided LADOTD with a *clear, standards-compliant basis for alternative screening, stakeholder coordination, and progression to NEPA decision-making and final design*.

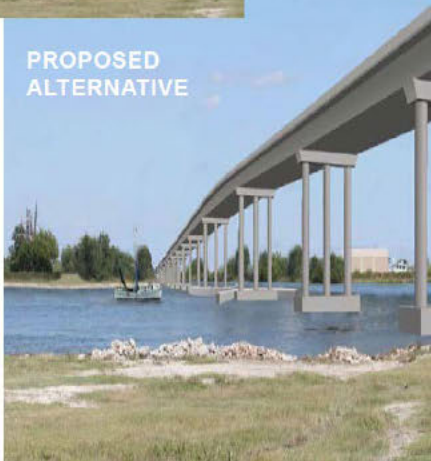
Key Challenges – Constraints included minimizing impacts to the Venetian Isles subdivision and nearby environmental, cultural, and historic resources, including Fort Macomb and the Bayou Sauvage National Wildlife Refuge. Engineering challenges were driven by strong tidal currents at Chef Menteur Pass, contributing to significant scour potential and elevated vessel collision risk.

Project Approach – The approach focused on early identification of critical path elements, including updating post-Katrina vessel clearance requirements, performing remote sensing to identify submerged cultural resources and obtain bathymetric data, and securing early concurrence on design criteria to address mixed-use corridor needs. In accordance with LADOTD's Complete Streets Policy, stakeholder input—particularly from regional bicycle representatives—was incorporated into the design. Access management strategies were implemented to enhance local mobility by minimizing direct driveway connections and promoting shared access. The team executed an accelerated coordination effort, conducting multiple stakeholder and agency meetings early in the project to support timely decision-making and environmental clearance.

Relevant Services

- Geometric Design of Roadway and Bridge
- Roadway and Bridge Typical Sections
- Local Access Connections
- Bridge type / Lifecycle Cost Assessment
- Construction Cost Estimate
- LADOTD Design Guidelines and EDSM's
- LADOTD Road Design and Bridge Design Manuals

ORIGINAL

PROPOSED
ALTERNATIVE

17 FIRM EXPERIENCE:

Firm name	ARCADIS		Past Performance Evaluation Discipline(s)*	Bridge, Road
Project name	Sprucevale Road over Little Beaver Creek		Firm responsibility (prime or sub?)	Prime
Project number	TOHCOL01	Owner's name	Columbiana County Engineer	
Project location	Columbiana County, Ohio		Owner's Project Manager	Troy Graft, PE
Owner's address, phone, email	235 South Main St., Lisbon, OH 44432			
Services commenced by this firm (mm/yy)	08/11	Total consultant contract cost (\$1,000's)		\$227.6
Services completed by this firm (mm/yy)	12/19	Cost of consultant services provided by this firm (\$1,000's)		\$227.6

Firm Members Involved: Bob Beasley

Firm's Role: Arcadis performed structural design and plan development for replacement of the Road Bridge over Little Beaver Creek, including realignment of the approach roadway to correct deficient horizontal geometry. The existing structure, a two-span steel truss supported on stone abutments and a concrete pier, was replaced with a 181 ft-long, two-span prestressed concrete I-girder bridge supported on semi-integral reinforced concrete abutments and a multi-column concrete pier.

Substructure and foundation design include driven pile foundations at the rear abutment and drilled shafts at the forward abutment and pier, developed based on site-specific loading and geotechnical conditions.

Key Environmental Compliance Aspects

- Bridge geometry was developed to **avoid in-channel piers within the ordinary high-water limits**, maintaining natural hydraulic conditions and minimizing disturbance to the creek.
- Span configuration (132-ft main span) was specifically selected to **comply with Wild and Scenic River designation requirements**, reducing impacts to protected waterways.
- Design approach minimizes in-stream construction and foundation impacts, supporting permitting and environmental clearance.
- Alignment and structural configuration were coordinated to **limit environmental disturbance while maintaining hydraulic performance and scour stability**.

Roadway and Alignment Design – The horizontal alignment was revised to correct substandard approach geometry, with the proposed bridge relocated approximately 50 feet downstream of the existing crossing. The design includes approximately 1,700 feet of roadway reconstruction and widening, incorporating a 650-foot horizontal curve with a 16-degree central angle terminating at the bridge, in accordance with applicable geometric design criteria for curvature and approach transitions.

Relevant Services

- Bridge Design
- Hydraulic Analysis
- Environmental
- Right-of-Way



Firm name	 ARCADIS		Past Performance Evaluation Discipline(s)*	Road, Bridge, Traffic, Geotech, Survey, Environmental
Project name	Replacement of SR 164 Bridge over Yellow Creek JEF-164-5.63		Firm responsibility (prime or sub?)	Prime
Project number	TOHODT07.PE01	Owner's name	Ohio Department of Transportation (ODOT)	
Project location	District 11, Jefferson County, Ohio		Owner's Project Manager	Waseem Khalifa
Owner's address, phone, email	2201 Reiser Ave. SE, New Philadelphia, OH 44663, (614) 466-6511,			
Services commenced by this firm (mm/yy)	01/14	Total consultant contract cost (\$1,000's)		\$196
Services completed by this firm (mm/yy)	01/19	Cost of consultant services provided by this firm (\$1,000's)		\$166

Firm Members Involved: Robert Beasley

Firm's Role: Bridge and roadway design plans, hydraulic analysis, construction phasing and sequencing plans, railroad and agency coordination, environmental, and traffic control plans.

The project involved the replacement of a deficient two-span box-beam bridge over Yellow Creek and the correction of substandard approach geometry with an existing design speed of 20 mph. Three alternative alignments were developed and evaluated to identify the preferred alternative based on engineering, environmental, and constructability considerations.



The selected design includes approximately 0.25 miles of roadway realignment and reconstruction, incorporating a new single-span rolled steel beam bridge supported on full-height abutments founded on spread footings, located adjacent to the existing Ohio Rail Railroad bridge.

Environmental compliance measures were integrated into the preferred alternative, including minimizing new right-of-way and impacts to adjacent resources, limiting in-stream work and disturbance to the creek channel, and maintaining existing hydraulic conditions. Alignment and structure location were coordinated to reduce impacts to the surrounding environment and streamline permitting while maintaining design standards and project constructability.

Design Process / Approach - Scope of Work – The project included roadway approach improvements, including pavement reconstruction, drainage systems, signing and pavement

markings, water main relocation, reconstruction of the Ohio Rail at-grade crossing, and relocation of overhead and underground utilities. Engineering services encompassed field survey, preparation of right-of-way plans and legal descriptions, HEC RAS hydraulic modeling of Yellow Creek, and development of a Categorical Exclusion (CE Level 2) document. Coordination with the railroad was critical due to the proximity of the crossing to the SR 164/TR 263 intersection. All **design deliverables were developed under Arcadis' Quality Matters™ QA/QC program** to verify compliance with applicable standards and submittal requirements.

Relevant Services

- Bridge Design
- Bridge Hydraulics
- Construction Phasing / Sequencing
- Roadway Design
- Traffic Control Plans
- Railroad Coordination
- Environmental Compliance / Permitting

Firm name			Past Performance Evaluation Discipline(s)*	Bridge, Road, Traffic, ITS, Environmental CEI/OV
Project name	University Boulevard over Arlington River Bridge Replacement		Firm responsibility (prime or sub?)	Prime
Project number	212379-3-52-01/E2R17	Owner's name	Florida Department of Transportation, District 2	
Project location	Jacksonville, Florida, USA		Owner's Project Manager	Jeff Daugharty, PE
Owner's address, phone, email	1109 South Marion Avenue Lake City, FL 32025, 904 360 5575, jeff.daugharty@dot.state.fl.us			
Services commenced by this firm (mm/yy)	08/13	Total consultant contract cost (\$1,000's)		\$12,000
Services completed by this firm (mm/yy)	08/15	Cost of consultant services provided by this firm (\$1,000's)		\$1,150

Firm Members Involved: Kristen Kesmire

Firm's Role: Lead Designer – Structural and Roadway Design

Arcadis served as lead designer for this project, delivering a complete roadway, bridge, and Maintenance of Traffic (MOT) design to replace a structurally deficient crossing with substandard geometric approaches.

Structural Design – The superstructure utilizes prestressed concrete girders designed under a *zero-tension service limit state* to minimize cracking and long-term maintenance. Substructure elements were designed using *Class V (6,500 psi) concrete* and corrosion-resistant admixtures in splash-zone regions to enhance durability in an *extremely aggressive marine/coastal environment*. Foundation systems were developed to address poor, marsh-type soils, with deep foundations and load transfer mechanisms designed to meet strength, serviceability, and settlement criteria. Structural detailing incorporated redundancy, constructability considerations, and long-term durability requirements consistent with AASHTO LRFD and owner criteria.

Constructability and Environmental Stewardship – MOT phasing was optimized through strategic modification of temporary bridge alignment, allowing use of a *single construction trestle* between the temporary and permanent structures. This approach enabled efficient three-phase construction while maintaining traffic, improving safety, and *avoiding additional right-of-way, minimizing environmental disturbance, and reducing impacts to utilities and adjacent properties*.

QA/QC Process – All design deliverables were developed under *Arcadis' Quality Matters™ QA/QC program*, incorporating independent design reviews, interdisciplinary coordination checks, and formal submittal reviews at key milestones. The process included verification of design assumptions, structural calculations, constructability reviews, and compliance checks with applicable standards, *verifying accuracy, consistency, and adherence to project performance requirements*.

Corrosion mitigation measures were developed in accordance with DOT durability criteria, with a focus on limiting chloride ingress and extending service life under aggressive exposure conditions. The design incorporates low-permeability, high-strength concrete, increased reinforcement cover, and corrosion-resistant admixtures—particularly in splash-zone elements—to delay the initiation of corrosion and reduce long-term deterioration. Collectively, these measures support BDEM objectives for durability, reduced maintenance, and long-term structural performance.

Relevant Services

- Roadway Design
- Drainage Design
- Construction Quantities
- Signal Design
- ITS Design and Communications
- Pavement Marking Design
- Traffic Engineering
- Maintenance of Traffic
- Signal Timing Plans
- Environmental Permitting



17 FIRM EXPERIENCE:

Firm name		Past Performance Evaluation Discipline(s)*	Bridge
Project name	Evaluation and Load Testing of Five Posted Bridges		Firm responsibility (prime or sub?) Prime
Project number	H.009859.5	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	Statewide, LA	Owner's Project Manager	Dana Feng, PhD, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, 225 379 1060, Dana.Feng@LA.GOV		
Services commenced by this firm (mm/yy)	05/19	Total consultant contract cost (\$1,000's)	\$343
Services completed by this firm (mm/yy)	01/20	Cost of consultant services provided by this firm (\$1,000's)	\$343

Firm Members Involved: Osama Elsaad, Zhiyong Liang, Mohsen Shahawy, Feng Xie

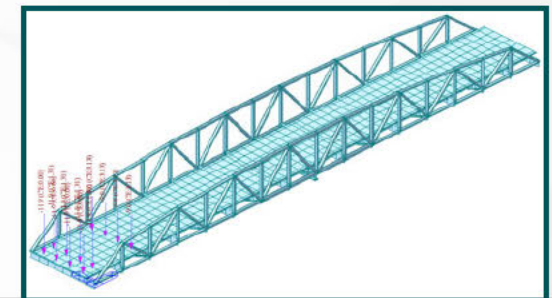
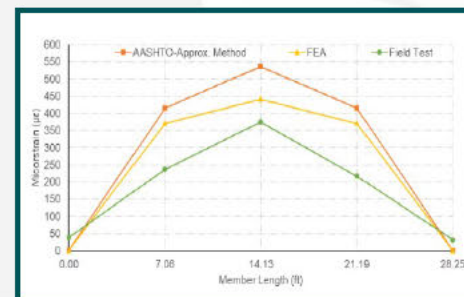
Firms Role: The scope of work was to evaluate five bridges, three of which are movable bridges, that were posted for a load lesser than the Legal Loads and/or Special Hauling Vehicles. The evaluation was carried out utilizing bridge inspection and load testing coupled with detailed 3-D Finite Element Analysis, to remove the current load posting. This approach captures the actual behavior of the structure and accounts for strength-enhancing factors not included in the design.

Results reveal that the bridges can carry loads higher than those estimated by design codes.

Recall No.	Parish	Type	Total Length (feet)
033700	Cameron	Steel Low Truss Swing Span	1,049
033730	Cameron	Steel Low Truss Swing Span	589
009690	Vermillion	Steel Plate Girder Swing Span	465
009580	Vermillion	Precast Concrete Slab Units	114
009570	Vermillion	Precast Concrete Slab Units	114



A strengthening and rehabilitation plan was also developed for the Mermentau Bridge (#033700) to avoid posting.



17 FIRM EXPERIENCE:

Firm name		Past Performance Evaluation Discipline(s)*	Bridge
Project name	US 80 Texas Street over Red River Bridge Rehab		Firm responsibility (prime or sub?) Prime
Project number	H.011484	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	Shreveport, LA	Owner's Project Manager	Stephanie Doolittle, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, 225 379 1329, Stephanie.Doolittle@la.gov		
Services commenced by this firm (mm/yy)	11/15	Total consultant contract cost (\$1,000's)	\$962
Services completed by this firm (mm/yy)	04/18	Cost of consultant services provided by this firm (\$1,000's)	\$962

Firm Members Involved: Osama Elsaad, PE; Zhiyong Liang, PhD, PE; Mohsen Shahawy, PhD, PE; Feng Xie, PE

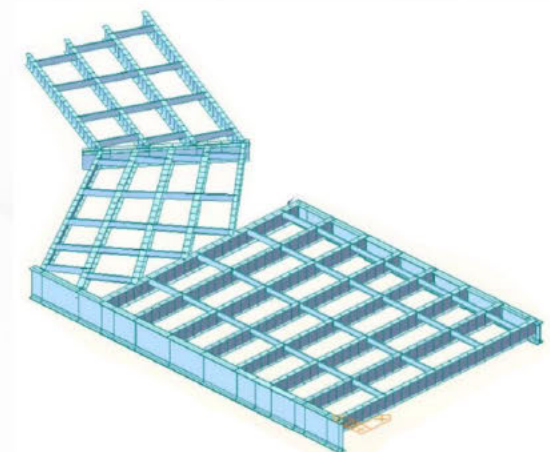
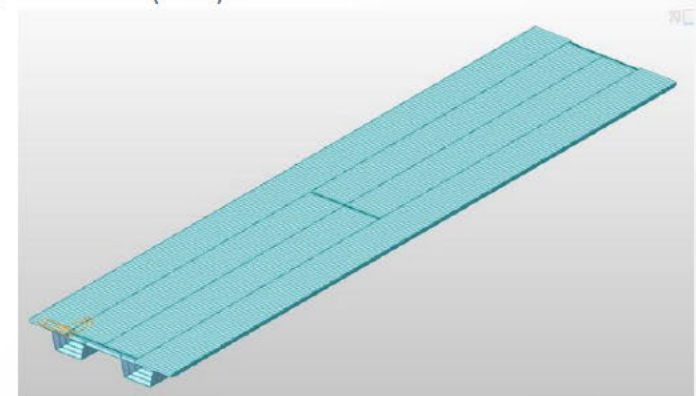
Firms Role: SDR was tasked by LADOTD to conduct load rating analysis of 27 complex off-system bridges across the state of Louisiana using the LRFR method in accordance with LADOTD Bridge Design and Evaluation Manual (BDEM) and AASHTO Manual for Bridge Evaluation (MBE).

The bridge types included in this project were as follows:

- Ferry-toll
- Pontoon
- Steel i-beam
- Steel plate girder swing spans
- Steel plate girder continuous spans
- Steel plate girder bascule spans
- Low truss swing spans
- Steel box girder

Since AASHTO approximate analysis is not applicable to many of the bridges, the superstructures were analyzed utilizing Finite Element Analysis along with in-house-developed spreadsheets or Mathcad. The substructures were rated using RC-Pier, MathCAD, and Microsoft Excel spreadsheets.

Influence lines for the controlling load effect at critical sections were also developed for the substructures.



17 FIRM EXPERIENCE:

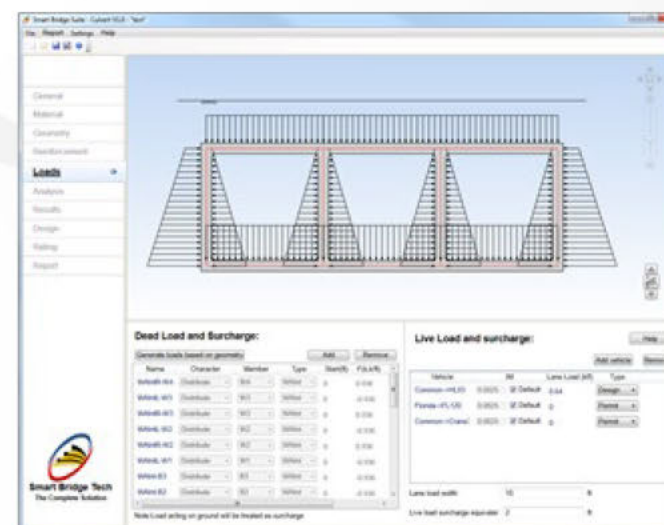
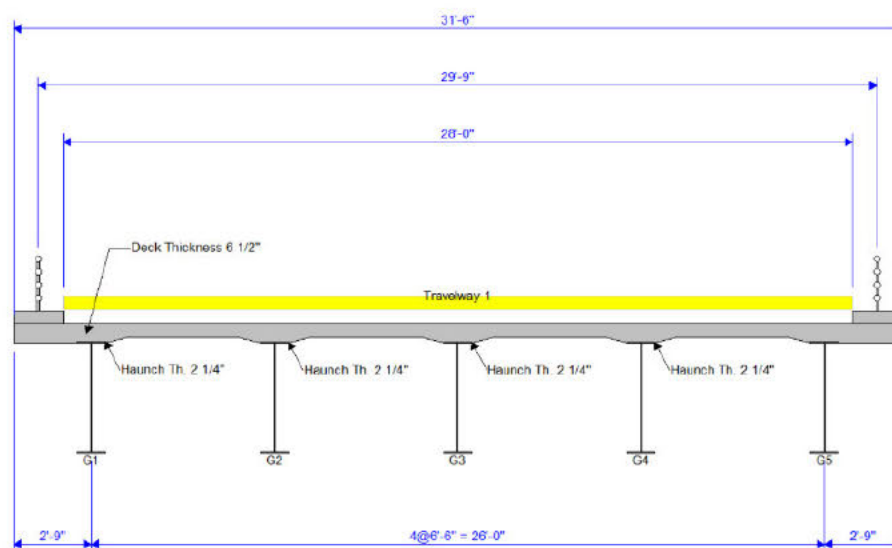
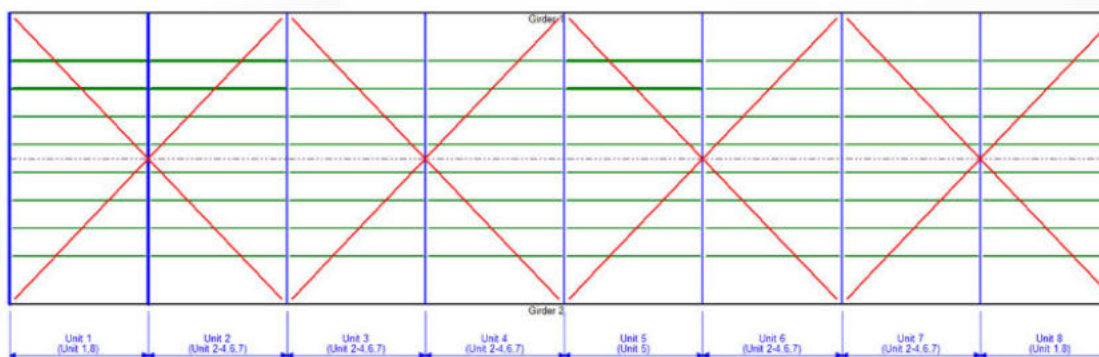
Firm name		Past Performance Evaluation Discipline(s)*	Bridge
Project name	LA 27 I-10 Overpass Repairs		Firm responsibility (prime or sub?) Prime
Project number	H.013450	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	Calcasieu Parish	Owner's Project Manager	Heather Patton, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, 225 379 1306, Heather.Patton@LA.GOV		
Services commenced by this firm (mm/yy)	3/18	Total consultant contract cost (\$1,000's)	\$364
Services completed by this firm (mm/yy)	6/18	Cost of consultant services provided by this firm (\$1,000's)	\$364

Firm Members Involved: Osama Elsaad, Zhiyong Liang, Mohsen Shahawy, Feng Xie

Firms Role: The scope was to perform Load and Resistance Factor Rating (LRFR) load rating analysis of 617 bridges in accordance with LADOTD Bridge Design and Evaluation Manual (BDEM) and AASHTO Manual for Bridge Evaluation (MBE).

The bridge types include:

- Reinforced concrete slab
- Precast concrete slab
- Reinforced concrete t-beam
- Precast prestressed concrete girder
- Steel i-beam
- Steel plate girder
- Reinforced concrete box culverts
- Reinforced concrete arched culverts
- Timber bridges



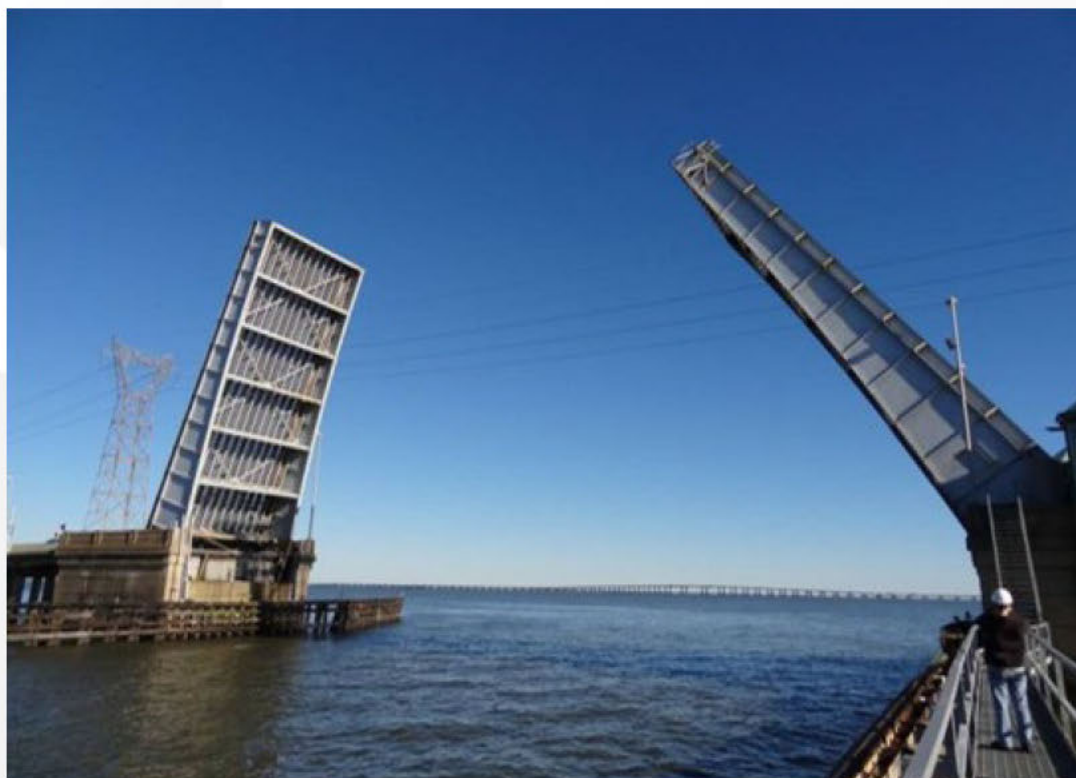
17 FIRM EXPERIENCE:

Firm name	 MODJESKI—MASTERS Experience great bridges		Past Performance Evaluation Discipline(s)*	Road, Bridge, Other (Drainage), Traffic, Planning, ITS, Environmental
Project name	IDIQ Contract for Bridge Preservation Services		Firm responsibility (prime or sub?)	Sub
Project number	Contract No. 44-12382	Owner's name	Louisiana Department of Transportation and Development (LADOTD)	
Project location	Statewide, LA		Owner's Project Manager	Paul Vaught
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1076, Mark.Bucci@la.gov			
Services commenced by this firm (mm/yy)	04/18	Total consultant contract cost (\$1,000's)		\$4,100
Services completed by this firm (mm/yy)	04/23	Cost of consultant services provided by this firm (\$1,000's)		\$3,657
Firm Members Involved: Geoffrey Forest, PE , Jonathan Gerhart, PE , David Kanger, PE				

As the Prime Consultant, Modjeski and Masters assembled a highly qualified, multi-disciplinary team to perform and execute 28 task orders for the LADOTD under a five-year IDIQ Bridge Preservation Contract. M&M was responsible for engineering and related services and the management of subconsultants contracted to provide support as part of the M&M team. All task orders were completed on schedule and within budget. M&M provided bridge engineering services for fixed and movable bridges which included new bridges, bridge replacements, bridge rehabilitation, bridge preventive maintenance and repair, and roadway lighting. Movable bridge engineering services included structural, mechanical, electrical, and architectural feasibility, design and plan development, and CRES.

Relevant Services

- Bridge Engineering (Fixed and Movable)
- Bridge Load Rating/Analysis
- Geotechnical Investigation
- Instrumentation and NDT
- Construction Related Engineering Support
- Road Design/Traffic Engineering/TMP
- Bridge Inspection & Coatings Evaluation
- Surveying
- Environmental/Permitting



17 FIRM EXPERIENCE:

Firm name			Past Performance Evaluation Discipline(s)*	Bridge, Road, Traffic, Survey, Geotech
Project name	IDIQ Contract for Bridge Preservation Services			Firm responsibility (prime or sub?) Prime
Project number	Contract No. 44-24187	Owner's name	Louisiana Department of Transportation and Development	
Project location	Statewide, LA	Owner's Project Manager	Brian Allen, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1840, Brian.Allen@la.gov			
Services commenced by this firm (mm/yy)	10/22	Total consultant contract cost (\$1,000's)		\$12,250 (max)
Services completed by this firm (mm/yy)	10/27 (est.)	Cost of consultant services provided by this firm (\$1,000's)		\$2,170

Firm Members Involved: Geoffrey Forest, PE, Jonathan Gerhart, PE, David Kanger, PE

As the Prime Consultant, Modjeski and Masters assembled a highly qualified, multi-disciplinary team to perform and execute 20 task orders for the LADOTD under a five-year IDIQ Bridge Preservation Contract. M&M was responsible for engineering and related services and the management of subconsultants contracted to provide support as part of the M&M team. All task orders were completed on schedule and within budget. M&M provided bridge engineering services for fixed and movable bridges which included new bridges, bridge replacements, bridge rehabilitation, bridge preventive maintenance and repair, and roadway lighting. Movable bridge engineering services included structural, mechanical, electrical, and architectural feasibility, design and plan development, and construction related engineering services.

Relevant Services

- Bridge Engineering (Fixed and Movable)
- Bridge Load Rating/Analysis
- Geotechnical
- Investigation Instrumentation and NDT
- Surveying
- Environmental/Permitting
- Road Design/Traffic Engineering/TMP
- Construction Related Engineering Support
- Bridge Inspection & Coatings Evaluation



17 FIRM EXPERIENCE:

Firm name			Past Performance Evaluation Discipline(s)*	Bridge, Road, Traffic, Survey, Geotech
Project name	IDIQ Contract for Bridge Preservation Services			Firm responsibility (prime or sub?) Prime
Project number	Contract No. 44-17263	Owner's name	Louisiana Department of Transportation and Development	
Project location	Statewide, LA		Owner's Project Manager	Mark Bucci, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1076, Mark.Bucci@la.gov			
Services commenced by this firm (mm/yy)	04/20	Total consultant contract cost (\$1,000's)		\$5,800
Services completed by this firm (mm/yy)	04/25	Cost of consultant services provided by this firm (\$1,000's)		\$5,524

Firm Members Involved: Geoffrey Forest, PE, Jonathan Gerhart, PE, David Kanger, PE

As the Prime Consultant, Modjeski and Masters assembled a highly qualified, multi-disciplinary team to perform and execute 33 task orders for the LADOTD under a five-year IDIQ Bridge Preservation Contract. M&M was responsible for engineering and related services and the management of subconsultants contracted to provide support as part of the M&M team. All task orders were completed on schedule and within budget. M&M provided bridge engineering services for fixed and movable bridges which included new bridges, bridge replacements, bridge rehabilitation, bridge preventive maintenance and repair, and roadway lighting. Movable bridge engineering services included structural, mechanical, electrical, and architectural feasibility, design and plan development, and CRES.

Relevant Services

- Bridge Engineering (Fixed and Movable)
- Bridge Load Rating/Analysis
- Geotechnical Investigation Instrumentation and NDT
- Construction Related Engineering Support
- Road Design/Traffic Engineering/TMP
- Bridge Inspection & Coatings Evaluation
- Surveying
- Environmental/Permitting



17 FIRM EXPERIENCE:

Firm name	 moffatt & nichol		Past Performance Evaluation Discipline(s)*	Bridge
Project name	LaDOTD Complex Bridge Inspection		Firm responsibility (prime or sub?)	Sub
Project number	H.009730.5, Task Order 03	Owner's name	Louisiana Department of Transportation and Development	
Project location	Statewide, Louisiana		Owner's Project Manager	Stephanie Doolittle, P.E.
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, Louisiana 70802 225-379-1329, stephanie.doolittle@la.gov			
Services commenced by this firm (mm/yy)	02/23	Total consultant contract cost (\$1,000's)	\$470	
Services completed by this firm (mm/yy)	12/24	Cost of consultant services provided by this firm (\$1,000's)	\$260	

Firm Members Involved: Chace Hulon, Bryan Tyson, Chip Eschenbach, Jeffrey Gazarek, Herodotos Pentas

M&N was part of a team responsible for performing bridge inspection of complex structures statewide, utilizing an IDIQ contract. Structure types include cantilever trusses, cable-stayed bridges, steel vertical lift bridges, and plate girder bascule bridges. Tasks include providing bridge inspections, SPRAT/rope access, underwater inspections, bridge ratings, categorization and documentation of bridge assets, and the development of the LaDOTD BIM and the Coding & Field Guide. All statewide inspections of in-service bridges throughout Louisiana are performed in accordance with FHWA guidelines. Representative tasks include the following. The comprehensive in-depth reports included a detailed summary of the rope access inspection methodology, inspection findings of current conditions and noted deficiencies, field notes, and photographs.

M&N developed major updates to the manual, including off-system directives, to support the creation of a new Bridge Load Rating Manual and a new Coding & Field Guide. A team of subject matter experts contributed to the development and reviews at periodic milestones. M&N collaborated with the LaDOTD staff throughout the development to manage expectations and maintain direction. In-person progress meetings occurred monthly, which included facilitating various District Bridge Engineers throughout the state. The manual is compliant with the NBIP (23 metrics and the three new metrics). The manual is thoughtfully organized systematically and interactively, with an appendix to store all vital updated forms for the Bridge Inspection Program. The Load Rating Manual will be the final development task and complement the other documents in content and format. The Coding & Field Guide is uniquely designed for a seamless navigation experience. Following delivery, acceptance, and publishing, a training module will be designed and delivered to all LaDOTD District personnel. M&N has been retained for five years to provide annual updates as needed.

Relevant Services

- BIM Updates
- Non-Destructive Testing
- NBE and SNBI Ratings
- Retainer Contract
- In-Depth Inspection and Reporting on Repairs
- TMP Dev and Work Zone Safety



17 FIRM EXPERIENCE:

Firm name	 moffatt & nichol		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	LaDOTD Underwater Bridge Inspections			Firm responsibility (prime or sub?)	Prime
Project number	H.009730.5, Task Order 2	Owner's name	Louisiana Department of Transportation and Development		
Project location	Statewide, Louisiana		Owner's Project Manager	Stephanie Doolittle, P.E.	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, Louisiana 70802, 225-379-1329, stephanie.doolittle@la.gov				
Services commenced by this firm (mm/yy)	06/22	Total consultant contract cost (\$1,000's)			\$2,402
Services completed by this firm (mm/yy)	08/25	Cost of consultant services provided by this firm (\$1,000's)			\$1,419

Firm Members Involved: Chace Hulon, Jeffrey Gazarek, Chip Eschenbach, Bryan Tyson, Charles Balzarini, Herodotos Pentas

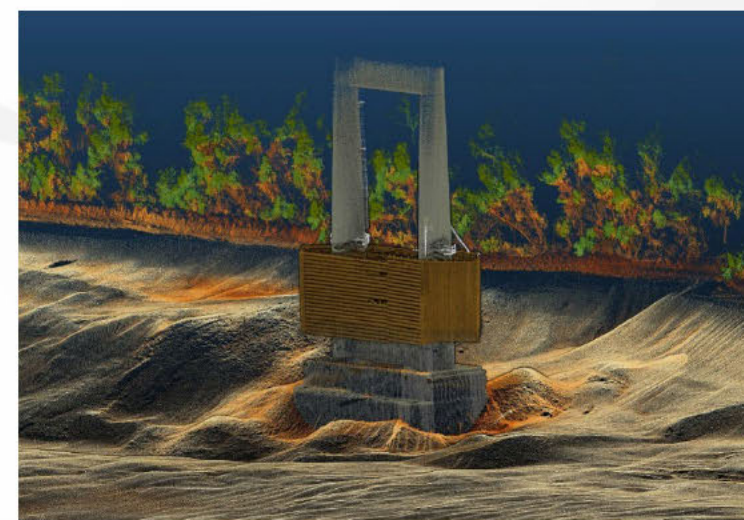
As part of a five-year retainer contract, M&N has been tasked with performing underwater bridge inspections for over 500 bridges throughout the state of Louisiana through Task Order 2 and over 800 bridges across all three task orders on this contract. The bridges consist of small to mid-sized waterways along with nine bridges passing through large swamps and bayous that vary between 3 and 14 miles long, 15 culverts, and four bridges crossing over large waterways (the Mississippi River, Prien Lake, and Whiskey Bay Channel). Many of the bridges crossed over waterways inhabited by alligators, which posed a potential hazard to the inspectors. To mitigate the probability of an incident, M&N implemented a Louisiana Department of Wildlife and Fisheries-approved nuisance alligator trapper during inspections at specific locations. M&N has safely performed Level I, II, and III underwater dive inspections and emergency damage assessments while augmenting 2D and 3D sonar technologies per the NBIS.

The M&N dive team captures images and bathymetric data utilizing high-resolution side scan sonar units and multibeam sonar technology. High-resolution images and point cloud data of bridge piers/bents are collected to identify channel bottom conditions and structural deterioration. Underwater acoustic imaging services were provided over large navigable waterways with high-risk diving conditions such as fast currents, low visibility, heavy debris, extreme depths, cold water, and vessel traffic.

Scour evaluations (inherent to underwater bridge inspections) are vital to the inspection and report process. All inspector-divers are trained to observe soundings near submerged substructure units, channel migration/alignment, bank erosion, channel bed material, condition of scour protection structures and channel training devices, flow velocity, timber debris quantity and location, major changes in watershed and hydraulic capacities from upstream development and construction; and to review all conditions in real-time on-site to establish a rate of scour and erosion for effective prioritization of repairs and development of scour plan of actions for monitoring.

Relevant Services

- NBIS Underwater Bridge Inspection and Reporting
- Underwater Acoustic Imaging and Hydrographic Surveying
- NBE and SNBI ratings
- Retainer Contract
- InspectX Submittals
- High-Risk Diving Operations and Hazardous Wildlife
- Emergency Response
- TTC and Work Zone Safety



17 FIRM EXPERIENCE:

Firm name	 moffatt & nichol	Past Performance Evaluation Discipline(s)*	Bridge
Project name	BIM and Coding & Field Guide - 2024		Firm responsibility (prime or sub?) Sub
Project number	H.009730.5, Task Order 3	Owner's name	Louisiana Department of Transportation and Development (LADOTD)
Project location	Statewide, LA	Owner's Project Manager	Stephanie Doolittle, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, Louisiana 70802, 225 379 1500, Stephanie.Doolittle@la.gov		
Services commenced by this firm (mm/yy)	02/23	Total consultant contract cost (\$1,000's)	\$470
Services completed by this firm (mm/yy)	12/24	Cost of consultant services provided by this firm (\$1,000's)	\$430

Firm Members Involved: Chace Hulon, Bryan Tyson

M&N was tasked with revising the BIM for the LaDOTD Bridge Program to incorporate the 2022 NBIS Final Rule. The new policies and procedures included the following documents:

- LADOTD On-System BIM
- LADOTD Off-System BIM
- LADOTD Coding & Field Guide

While the above documents have been completed, the LaDOTD Bridge Load Rating Manual development is currently in progress. M&N collaborated with the LaDOTD staff throughout the development to meet expectations and maintain their input, direction, and compliance. In-person progress meetings occurred monthly, including meetings with various District Bridge Engineers throughout the state.

The BIM policies and procedures were completed and published in December 2024, were fully implemented in January 2025, and will be fully compliant for the FHWA audit in 2028.

Updates to the LaDOTD BIM were largely a result of the 2022 NBIS Final Rule regulations, and included topics such as:

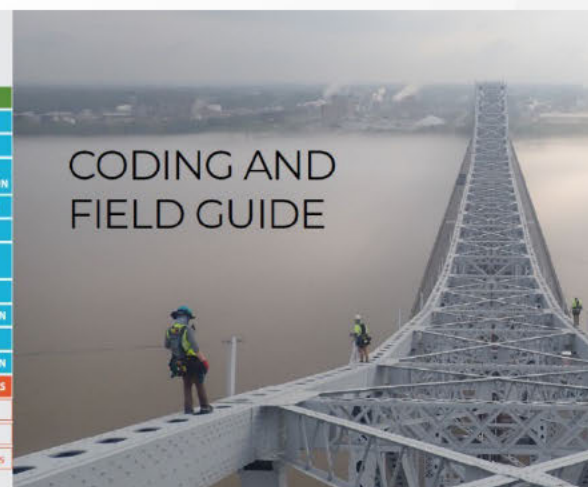
- Replaced the 1995 Coding Guide with SNBI.
- Inventory now includes private bridges on public roads and temporary bridges open to traffic.
- Two methods for risk-based inspection intervals.
- Enhanced personnel qualifications, specifically for NSTM and Underwater Team Leaders.
- Critical finding reporting with monthly reports.
- Load rate for routine and special permit loads.
- Load post within 30 days of a valid load rating.
- Allowance for advanced technologies and Unmanned Aerial Systems that may supplement traditional methods

Relevant Services

- Inspection and Reporting Standards
- Inspection Techniques
- Safety and Risk Management
- Retainer Contract
- Training and Certification
- Technology and Tools
- Innovation
- QA/QC Procedures



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BRIDGE ELEMENT LEVEL TABLES
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Bridge Element Level Table
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17 FIRM EXPERIENCE:

Firm name		Past Performance Evaluation Discipline(s)*	Bridge
Project name	Bayou Dulac Bridge MB Assessment		Firm responsibility (prime or sub?) Sub
Project number	N/A	Owner's name	LADOTD (TRC Engineers – Prime Consultant)
Project location	Dulac, LA	Owner's Project Manager	Michael Schrepfer, TRC Engineers
Owner's address, phone, email	4545 Sherwood Common Blvd., Building 3A, Baton Rouge, LA 70816 (225) 236-8342		
Services commenced by this firm (mm/yy)	04/25	Total consultant contract cost (\$1,000's)	Unknown
Services completed by this firm (mm/yy)	11/25	Cost of consultant services provided by this firm (\$1,000's)	\$13

Firm's Members: Jayson Helsel, PE

Firm's Role: Bridge Coating Condition Assessments.

The Dulac Bayou Bridge in Dulac, Louisiana carries LA0057 and two lanes of traffic plus two sidewalks for pedestrians over the Dulac Bayou. The total bridge length is 460 feet with a swing span length of 135 feet, including an open grid deck design. The bridge was constructed in 1971, and most of the structure reportedly still has the original coating system.

As part of the preliminary design services, KTA provided a coating condition assessment (visual, coating thickness, adhesion) sampling, laboratory testing (infrared spectroscopy and lead, cadmium, and chromium testing), chloride testing/remediation, provided maintenance painting recommendations for this project, and provided an opinion of probable construction costs.

Relevant Services

- Bridge Coating Condition Assessments
- Identification of Deficiencies
- Rehabilitation Recommendation and Prioritization of Improvements.



17 FIRM EXPERIENCE:

Firm name		Past Performance Evaluation Discipline(s)*	Bridge
Project name	Krotz Springs Bridge		Firm responsibility (prime or sub?) Sub
Project number	4400025311 task order	Owner's name	LADOTD (Hardesty & Hanover, LLP – Prime Consultant)
Project location	St. Landry Parish, LA	Owner's Project Manager	Babak "Bobby" Naghavi, PE, PH, PhD – Hardesty & Hanover
Owner's address, phone, email	3850 N. Causeway Blvd., Suite 1625, Metairie, LA 70002 504-605-7940 bnaghavi@hardestyhanover.com		
Services commenced by this firm (mm/yy)	09/23	Total consultant contract cost (\$1,000's)	\$5,000
Services completed by this firm (mm/yy)	02/24	Cost of consultant services provided by this firm (\$1,000's)	\$12

Firm's Members: Robert Lanterman

Firm's Role: Bridge Coating Condition Assessments

The Krotz Springs Bridge is owned and operated by LADOTD. The bridge was constructed in 1973 and consists of eastbound and westbound structures. Each bridge carries two lanes of vehicle traffic over the Atchafalaya River in Krotz Springs, Louisiana. The bridges consist of a 3-span truss main span that measures 780 ft. The coating history indicates that the westbound bridge was last coated in December of 2017 and the eastbound bridge was last coated in May of 2016, both with a coating system consisting of a zinc epoxy primer, epoxy intermediate, and urethane finish.

In September 2023, as a subconsultant to Hardesty & Hanover, LLP, KTA performed a coating condition assessment on both structures. The purpose of this assessment was to determine the coating of the existing coatings on the structure in order to develop a maintenance painting strategy for the bridge.

A visual assessment of the coated surfaces was conducted to determine the type, extent, and location of coating breakdown and corrosion on the structure. Coating thickness, number of coats, and adhesion were determined using appropriate instrumentation. Samples were removed for further laboratory examination to determine if toxic metal concentrations were present in the existing coatings and to generically identify the coating type. Photographs of typical coating conditions were taken. The results of the field and laboratory testing, a discussion of those results, and photographs were included in a report prepared and submitted to Hardesty & Hanover.

Relevant Services

- Bridge Coating Condition Assessments
- Identification of Deficiencies
- Rehabilitation Recommendation and Prioritization of Improvements.



17 FIRM EXPERIENCE:

Firm name	 SAM Formerly SJB Group <i>(Formerly SJB Group)</i>		Past Performance Evaluation Discipline(s)*	Survey, Right-of-Way, Other (SUE)
Project name	I-10 Calcasieu River Bridge Public-Private Partnership Project		Firm responsibility (prime or sub?)	Sub
Project number	H.003931	Owner's name	LA DOTD	
Project location	Calcasieu Parish		Owner's Project Manager	Paul Vaught, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 225-379-1816 paul.vaughtiii@la.gov			
Services commenced by this firm (mm/yy)	8/24	Total consultant contract cost (\$1,000's)	\$130,000	
Services completed by this firm (mm/yy)	8/31	Cost of consultant services provided by this firm (\$1,000's)	\$3,000	

Firm Members Involved: Karen Kennedy, PE; Matthew Estopinal, PE, PLS; Tim Brewer, RF, PS, PLS, RPLS, RPP; Colin Gravois, PLS; Marshall Pounds; Ralph Burgess, PLS

SAM, LLC is undertaking critical tasks for the I-10 Calcasieu River Bridge project, including Property Surveying, limited Topographic Surveying (to verify and supplement existing topographic surveys), and Utility Coordination throughout the project limits. This initiative is the largest in the history of the Louisiana Department of Transportation and Development (LA DOTD) and one of North America's most substantial infrastructure projects commissioned in 2023. The existing bridge demolition and replacement will have a significant impact on existing properties and utility facilities within the limits of the project which is a heavily congested residential, commercial and industrial corridor.

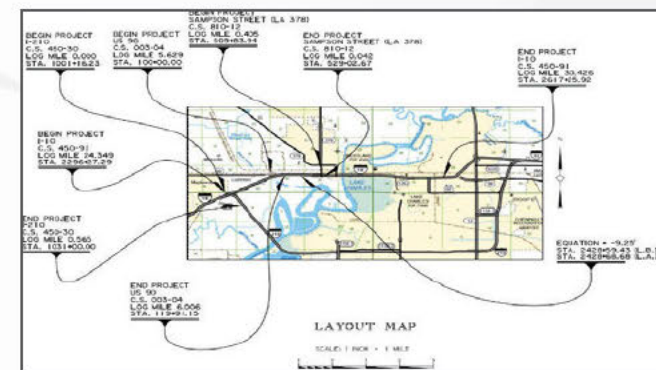
The Property Surveying work covers a 5.5-mile stretch of Interstate 10 within the design-build boundaries. This extensive task involves thorough title research to gather existing surveys and deeds, field surveying, and mapping for all parcels along the corridor. The range of properties includes small residential lots to large commercial and industrial tracts. Right of way acquisition will be necessary for segments of the project. All property surveys and Right-of-Way Mapping will adhere to the Standards of Practice for route surveys set forth by the Louisiana Professional Engineering and Land Surveying Board, as well as LA DOTD's Location and Survey Manual requirements. The technical provisions of the project require the developer to verify and confirm the location, accuracy and datum of the survey control network provided by DOTD in the bid phase of the project. This was completed using a control network from the provided network to establish fixed horizontal coordinate results for each location of the provided control. There will also be additional topographic surveys necessary to supplement the topographic survey provided by DOTD.

The bridge relocation and the reconfiguration of interchanges will extensively impact utilities within the project limits. These utilities include both local, municipally owned infrastructure to large industrial pipelines. The coordination of these utilities' relocation is a complex, iterative process requiring collaboration with LA DOTD, developers, property owners, and utility stakeholders to verify the project adheres to budget and schedule constraints. Key utility coordination activities include:

- Preparing conflict matrices and conflict plans to identify and resolve utility conflicts.
- Drafting and utility relocation agreements and utility permits
- Managing the development and coordination of as-built plans to document completed relocations.

Relevant Services

- Property Survey
- Topographic Surveys
- Utility Coordination



17 FIRM EXPERIENCE:

Firm name			Past Performance Evaluation Discipline(s)*	Geotech
Project name	MRB South GBR: LA 1 to LA 30 Connector		Firm responsibility (prime or sub?)	Prime
Project number	H.013284	Owner's name	LADOTD	
Project location	West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes		Owner's Project Manager	Christina Brignac
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA (225)379-1937 Christina.Brignac@la.gov			
Services commenced by this firm (mm/yy)	07/23	Total consultant contract cost (\$1,000's)		\$6,000
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$713.1

Firm Members Involved: Megan Bourgeois, Robert Jewell, Jarmon King, Casey Floyd, Jessica Litt

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. There are three proposed alignments for this project connecting LA 1 on the west side of the Mississippi River to LA 30 on the east. The three alignments range from approximately 7 miles to 8 miles in length including interchanges at either end.

For this preliminary phase of work, Ardaman performed 18 soil borings, and 23 electronic cone penetration tests (ECPTs) distributed among the three alternative alignments. Six soil borings to a maximum exploration depth of 250 feet below existing ground surface (bgs) were performed in the Mississippi River batture area targeting the proposed bridge foundations on either side of the Mississippi River for each alternative. The remaining 12 soil borings performed to a maximum exploration depth of 150 feet were located along each of the alignments for the high-level approaches and low-level interchanges on either side of the Mississippi River. The ECPTs were performed to maximum exploration depths ranging from 42 feet to 150 feet and were located along the three proposed alignments to supplement the soil borings.

Additionally, a total of 31 electrical resistivity (ER) geophysical survey transects were completed to allow for a survey of the stratigraphy between soil investigation locations.

Engineering services include 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. A data report and preliminary geotechnical assessment report were submitted.



17 FIRM EXPERIENCE:

Firm name	FORTE & TABLADA	Past Performance Evaluation Discipline(s)*	Bridge
Project name	Linwood Avenue Bridge Rehabilitation		Firm responsibility (prime or sub?) Prime
Project number	RFS 24-705	Owner's name	City of Shreveport
Project location	Shreveport, LA	Owner's Project Manager	David Smith, P.E.
Owner's address, phone, email	505 Travis Street, Suite 300, Shreveport, LA 71101, 318-673-6050, David.Smith@shreveportla.gov		
Services commenced by this firm (mm/yy)	02/25	Total consultant contract cost (\$1,000's)	\$350.0
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)	\$22.2

Firm Members Involved: Joffrey Easley, Levi Yantis

Firms Role: Bridge Rehabilitation

Forte and Tablada was engaged by the City of Shreveport to develop rehabilitation and strengthening details for the Linwood Avenue bridge. This steel bridge, which was constructed in 1950 and crosses multiple CPKC and UPRR railroad tracks, has been closed since 2022 following an inspection by LADOTD inspection personnel. Prior to the closure, Forte and Tablada inspected, laser scanned, gathered field measurements, load rated, and developed a set of Load Rating Plans (since the original construction plans are not available) for LADOTD in 2021. Following the closure of the bridge, a Bridge Evaluation Report outlining alternatives to reopen the bridge was submitted to City of Shreveport.

Since AASHTO approximate analysis is not applicable to many of the bridges, the superstructures were analyzed utilizing Finite Element Analysis along with in-house-developed spreadsheets or Mathcad. The substructures were rated using RC-Pier, MathCAD, and Microsoft Excel spreadsheets.

Influence lines for the controlling load effect at critical sections were also developed for the substructures.

Based on the 2021 load rating by Forte and Tablada, preliminary locations requiring rehabilitation and strengthening have been determined. Due to the insufficient clearances between the existing highway bridge and the railroad tracks, Conceptual Rehabilitation/Strengthening Plans have been developed and shared with CPKC and UPRR to determine any railroad-specific requirements associated with the rehabilitation. The Conceptual Plans utilize the laser scanning and Load Rating Plans developed by Forte and Tablada in 2021.

Coordination with both CPKC and UPRR concerning the project scope and development of rehabilitation and strengthening details is ongoing. Linwood Avenue intersects with the Shreveport Healthcare and Development Corridor and is a vital route for the City of Shreveport.

Relevant Services

- Load Rating
- Construction Plans



Linwood Avenue Bridge over Railroad Tracks - Typical Bent

17 FIRM EXPERIENCE:

Firm name	 LAZENBY & ASSOCIATES, INC.		Past Performance Evaluation Discipline(s)*	Survey
Project name	Retainer Contract for Professional Surveying Services		Firm responsibility (prime or sub?)	Prime
Project number	4400012667	Owner's name	Louisiana Department of Transportation and Development	
Project location	Statewide, Louisiana		Owner's Project Manager	Carl Hultgren, PLS, CH
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, LA 70804-9245, (225) 379-1723, Carl.Hultgren@la.gov			
Services commenced by this firm (mm/yy)	07/18	Total consultant contract cost (\$1,000's)		\$367.6
Services completed by this firm (mm/yy)	03/23	Cost of consultant services provided by this firm (\$1,000's)		\$367.6

Firm Members Involved: Jerry Lazenby, Ronald Riffin, Paul Fryer

Firms Role:

Lazenby & Associates, Inc. was the Prime Consultant on this project. This project consisted of 25 Task Orders to perform Topographic Surveys, Property Surveys and Right-of-Way Maps for various LaDOTD Projects in North Louisiana.

All work performed on this project was performed out of our West Monroe office using Louisiana residents.

This contract included 25 Task Orders. Some of the task orders performed under this contract include the following:

Task Order No.	Description	Location	Amount	Time Frame & Personnel
H.012798.5	LA 594: Roundabout at Rowland Road Property Surveys & ROW Maps	Ouachita Parish	\$14,851	Aug., 2018 – June, 2019 Paul D. Fryer, P.E., P.L.S. Ronald J. Riffin, II, P.E., P.L.S.
H.007300.5/ H.004774.5	Kansas Lane – Garrett Road Topographic Survey, Property Surveys & ROW Maps	Ouachita Parish	\$99,292	Jan., 2019 – Sept., 2019 Paul D. Fryer, P.E., P.L.S. Ronald J. Riffin, II, P.E., P.L.S.
H.000169.6	Missouri Pacific Railroad Bridge @ Sicard Road Property Surveys & ROW Maps	Ouachita Parish	\$4,230	Sept., 2019 – Sept., 2019 Paul D. Fryer, P.E., P.L.S. Ronald J. Riffin, II, P.E., P.L.S.



SECTION

18

APPROACH AND METHODOLOGY

As Prime Consultant, Arcadis will provide full program management and execution of all task orders under this IDIQ contract. Our approach is centered on:

- **Early and continuous coordination** with LADOTD Headquarters and Districts, and stakeholders
- **Clear communication and defined project controls** to maintain schedule and budget.
- **Comprehensive scope development** and risk identification to reduce uncertainty.
- **Integrated, multidisciplinary delivery** to ensure constructability and efficiency.

This approach is aligned with LADOTD's project delivery processes and enables the development of practical, cost-effective, and permit-ready solutions. Our team consistently emphasizes constructability, schedule adherence, and risk mitigation through proactive planning and complex technical competence.

Arcadis has assembled a highly qualified team of Louisiana-based and nationally recognized staff and subconsultants with expertise in bridge design, movable structures, geotechnical engineering, roadway and traffic design, inspection, surveying, and environmental services. This integrated team structure provides the technical depth and flexibility required to support simultaneous task orders while maintaining consistent quality and responsiveness.



Our team's long-standing working relationships and familiarity with LADOTD standards and expectations enable seamless coordination, efficient decision-making, and reliable project delivery.

CONTRACT UNDERSTANDING

Arcadis understands that this contract provides LADOTD with an on-demand, task-order-based bridge engineering program supporting both fixed and movable structures. The contract is structured to advance priority assignments efficiently while maintaining flexibility in scope, schedule, and funding.

Our team will deliver fully coordinated, permit-ready plans that integrate structural, mechanical, and electrical designs that meet environmental requirements.

All work will be performed in accordance with **LADOTD standards, the Bridge Design and Evaluation Manual (BDEM), AASHTO LRFD Bridge Design Specifications, and applicable federal requirements.**

Arcadis will provide single-point accountability for contract performance. **Osama Shahawy, PE**, will serve as Contract Manager and primary point of contact. With over 30 years of bridge engineering experience and deep knowledge of LADOTD standards and processes, he will ensure effective coordination, technical excellence, and successful delivery of all task orders.

The team will manage scope, schedule, and resources proactively to deliver all task orders in full compliance with IDIQ contract requirements and established timelines.

Quality Assurance/Quality Control (QA/QC) procedures will be implemented throughout all phases to ensure accuracy, consistency, and compliance.

A **proactive risk management framework** that includes early identification of **design constraints, coordination** with permitting agencies, constructability reviews, and **continuous stakeholder engagement** to minimize delays and optimize project outcomes will be applied.

TASK ORDER INITIATION

Arcadis will implement a responsive, streamlined task order process that ensures rapid mobilization, clear alignment with LADOTD priorities, and efficient project delivery. Upon notification of a proposed task order, Arcadis will promptly coordinate with LADOTD to confirm project scope, schedule, budget, and objectives. Our Project Manager will lead the development of a detailed Scope of Services in close collaboration with the assigned LADOTD Project/Task Manager, ensuring clarity, accuracy, and alignment at the outset.

Following scope approval, Arcadis will **prepare a comprehensive level-of-effort estimate and project schedule to support timely task order authorization**. Deliverables will be advanced expeditiously to facilitate rapid initiation, and our team will be prepared to begin work immediately upon receipt of the Notice to Proceed (NTP), maintaining momentum and minimizing delays.

KICKOFF MEETING

Upon NTP, Arcadis will conduct a kickoff meeting with LADOTD and key stakeholders to confirm project objectives, design criteria, coordination requirements, and delivery expectations. This meeting will **establish clear communication protocols** and ensure alignment among all parties. Arcadis will then **develop a Critical Path Method (CPM) baseline schedule and a detailed Project Work Plan** that incorporates approved design criteria, QA/QC requirements, and stakeholder input, including coordination with the LADOTD District office, the U.S. Coast Guard, and other regulatory agencies, as applicable.

BRIDGE DESIGN SERVICES

Arcadis will conduct a **comprehensive site assessment** to evaluate existing bridge conditions, collect field data, and **identify constructability considerations**, including phased construction. Efforts include **coordination of surveying, geotechnical investigations, utilities, drainage, and review of LADOTD roadway classification and Stage 0 recommendations**, in accordance with **LADOTD standards and the Bridge Inspection Manual**.

Design will be developed using **LADOTD-approved criteria**, refining bridge geometry to ensure safe transitions and required clearances. The project will advance through preliminary and final design, incorporating

traffic control, environmental considerations, and permitting requirements, with coordination with LADOTD through Plan-in-Hand and Advanced Check Print reviews.

Arcadis will deliver complete plans, specifications, calculations, and cost estimates for letting, emphasizing staged construction approaches that maintain traffic and minimize disruption.

For **bridges with posting restrictions** due to capacity uncertainty, Arcadis will supplement analytical load rating efforts with instrumented field load testing, including strain-gage measurements and controlled truck-loading protocols, similar to methodologies used in movable-bridge evaluations. The resulting measured response data will be correlated with refined analytical models to reduce conservatism and better define actual load-carrying capacity.

All evaluations and recommendations will be performed in accordance with LADOTD Bridge Design and Evaluation Manual (BDEM), **AASHTO LRFD/MBE provisions, and NBIS requirements**, ensuring defensible, data-driven decisions that enhance safety, mobility, and asset management outcomes.

Load rating will be performed **using AASHTOWare BrR**, and cost-effective repair solutions, technical reports, rehabilitation plans, cost estimates, and implementation schedules will be developed.

Specialized services include railroad coordination, movable bridge systems, and integrated multidisciplinary support, which will be submitted for LADOTD review and approval.

All **deliverables will meet LADOTD electronic standards**, ensuring coordinated, constructable, and compliant solutions that enhance safety, extend service life, and provide long-term value.

BRIDGE INSPECTION SERVICES

SDR Engineering will deliver **specialized bridge inspection services** backed by decades of experience on LADOTD IDIQ contracts, including complex cable-stayed and truss structures. They deploy **scalable teams (2–12 inspectors)** tailored to project conditions and led by experienced supervisors to ensure efficient execution. **NHI 130078-certified inspectors** will perform fracture-critical evaluations with a focus on fatigue-prone details, ensuring accurate and reliable assessments.

Movable Bridge: M&M will evaluate the bridge's unique characteristics by reviewing existing documentation and conducting field inspections, including strain-gage testing. The assessment will address constructability, jacking locations, balance pocket contents, code compliance, and load ratings based on the condition of the members. A comprehensive report will summarize findings, recommendations, work alternatives, and the proposed scope for structural preservation.

Underwater Inspections: Our certified sub, **Moffatt & Nichol**, will perform all activities, including detailed assessments and mapping of channel-bottom scour. We will use acoustic imaging and side-scan sonar for precise depth measurements and sounding.

SAMPLING, INSTRUMENTATION, AND NDT

SDR Engineering will provide comprehensive **Non-Destructive Testing (NDT) services**, including **ultrasonic testing, GPR, and material analysis**. KTA-Tator will **provide a comprehensive paint/coating assessment**, including detailed evaluations of existing systems. KTA performs **visual inspections, surface area calculations, dry film thickness measurements, and substrate assessments to identify coating deterioration and corrosion**, and verify prior surface preparation. We will also develop **procedures for treatment, handling, and waste disposal to ensure regulatory compliance and safety**.

ROAD DESIGN AND TRAFFIC SERVICES

All roadway engineering services performed by the Arcadis Team will comply with the latest editions of **LADOTD's Roadway Design Procedure and Details Manual, Minimum Design Guidelines, and Engineering Directives and Standards Manual (EDSM)**, as well as applicable **AASHTO design guides and FHWA's MUTCD**.

Hydraulic and drainage design will be performed in accordance with **LADOTD's Hydraulics Manual, utilizing HydroWIN** for all hydrologic and hydraulic analyses.

All plan development will conform to LADOTD drafting and software standards. Roadway design will be completed in the MicroStation environment using **Bentley Inroads or OpenRoads** by qualified staff proficient in both platforms.

Arcadis will **develop Transportation Management Plans (TMPs)** that provide clear, coordinated strategies for managing work zone impacts and maintaining mobility effectively. TMPs will be prepared during the design development phase for each Task Order, with the scope and level of detail tailored to the project's specific complexity and risk. All **TMPs will be developed in full compliance with EDSM VI.1.1.8**, ensuring consistency with LADOTD requirements and supporting efficient, safe project delivery.

SURVEYING AND TITLE WORK SEARCH

The Arcadis subconsultant surveying teams will perform all required topographic surveys in full compliance with the latest **LADOTD Location and Survey Manual**, including accepted survey practices and horizontal/vertical control standards.

Survey data will utilize LADOTD-approved feature codes and symbology per the **latest Survey Feature Code Guidebook**. **3D Terrestrial Scanning**, when applicable, will supplement conventional methods and comply with all LADOTD scanning standards.

All deliverables will conform to LADOTD electronic data requirements.

GEOTECHNICAL

The Arcadis Team, led by **Ardaman & Associates, Inc**, understands LADOTD geotechnical requirements, including investigations, laboratory testing, reporting, engineering analysis, and construction monitoring.

Field Investigations: Soil borings will be performed using appropriate rigs (truck-, track-, ATV-, or marine-based) and methods (dry auger or wet rotary), with all work conducted by qualified personnel in accordance with LADOTD standards for sampling, calibration, sealing, surveying, and handling. CPT soundings will utilize vehicle-mounted systems to provide continuous soil data, improving efficiency and supporting project schedules.

Laboratory Testing: Laboratory testing will be performed in accordance with LADOTD-required testing. Testing will include classification, strength, and consolidation, consistent with LADOTD guidelines.

Engineering and Construction Support: Advanced field exploration, laboratory data, and analytical methods will be used to evaluate subsurface conditions and develop design recommendations. Ardaman will also provide construction monitoring, instrumentation, and quality

assurance services to support all phases of construction in compliance with LADOTD requirements.

ENVIRONMENTAL AND PERMITTING SERVICES

Arcadis will provide a streamlined, permit-focused compliance process that begins with review of existing mapping, agency databases, and regulatory resources to identify wetlands, waters, cultural resources, threatened and endangered (T&E) species, scenic streams, navigable waters, levees, and other environmental constraints. Following this desktop review, our Professional Wetland Scientists, ecologists, Registered Professional Archaeologists, and historians will complete field investigations as needed, including wetland and waters delineations, biological surveys, and cultural resources surveys. Environmental resource delineations will be provided to the design team to quantify impacts, develop avoidance and minimization measures, and prepare permit drawings.

Arcadis will prepare the required technical documentation, including Wetland Findings Reports, Biological Survey Reports, Cultural Resources Survey Reports, and related materials to support agency coordination pursuant to Section 7 of the Endangered Species Act, Section 106 of the National Historic Preservation Act, and other applicable federal and state regulations. Based on project location and impacts, we will **prepare U.S. Army Corps of Engineers (USACE) Sec. 10/404 Clean Water Act (CWA) permits, USACE Sec. 408** permission requests for impacts to federal Civil Works projects (e.g., levees and shipping channels), LA Department of Environmental Quality Sec. 401 Water Quality Certification requests, LA Department of Energy and Natural Resources Coastal Use Permits, U.S. Coast Guard (USCG) Section 9 bridge permits and navigation lighting plans, LA Department of Wildlife and Fisheries Scenic Rivers permits, and local levee board permits and Coastal Zone permits. Arcadis will engage and **coordinate with LADOTD and regulatory agencies early and throughout the permitting process** to identify concerns, verify complete application submittals, and expedite reviews where possible.

CONSTRUCTION SUPPORT

Arcadis will provide construction support, including participation in pre-construction conferences, RFI responses, and coordination meetings with 24 hours' notice. Construction cost estimates will be submitted at

each milestone, with focused discussions on high-cost items to support LADOTD decision-making.

PEER REVIEW

Peer reviews will be conducted by licensed professional engineers with **relevant LADOTD experience**, in accordance with applicable **EDSMs, design manuals, and QA/QC requirements**. Comments will be submitted to LADOTD and the design team, with resolutions tracked, validated, and incorporated into the final design through a structured QC process.

A formal Peer Review Resolution Agreement and a comprehensive comment resolution log will be provided to ensure full compliance, traceability, and quality control.

QA/QC

Arcadis will implement **task-specific QA/QC for each assignment**, tailoring reviews, checks, and documentation to the complexity of the work. Each task order will include an independent technical review and verification of all calculations and deliverables. Arcadis also maintains a **corporate QA/QC program fully compliant with LADOTD requirements**, ensuring all work meets BDEM, AASHTO, and NBIS standards and delivers consistent, accurate, and complete tasks.

ACTIVITY	Month																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Task Order Development																								
Project Scoping & Fee Negotiation																								
Task Order NTP Issued																								
Preliminary Plans																								
Project Plan Development																								
Kickoff Meeting																								
Data Collection & Field Inspection																								
Topographic Survey																								
30% PP Development																								
60% PP Development																								
95% PP Development																								
Plan-In-Hand Meeting																								
100% PP Development																								
Final Plans																								
60% FP Development																								
Joint Plan Review Meeting																								
95% FP Development																								
Advanced Check Print Review Meeting																								
98% FP Development																								
100% FP Development																								
Construction Support																								
Review & address RFI																								
On Call Construction Support																								



SECTIONS

19-23

Firm(s) <u>ALL FIRMS MUST BE REPRESENTED IN THIS TABLE</u>	Discipline	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
	Data Collection	4400023812 / H.015377.5	Weigh Station Assessment	\$352,125
	Traffic	4400019379 / H.013797	LA 30: EBR PL – I-10	\$481,700
		4400024307 / H.015052	I-20: Widening/Ovrly (Vancil Rd-LA 34)	\$4,510
		4400023690 / H.015590.5	LA 494: LA 6 To Blanchard Rd	\$40,250
		4400023690 / H.016529.5	US90BUS (Broad St): Enterprise BL – I-210	\$146,200
		4400023690 / H.016380.5	LA 1024: S-Wave Ground Inlay Grooves	\$6,863
		4400017033 / H.005121	LA 1/LA 415 Connector	\$256,667
		4400025625 / H.014622.2	St. Nazaire Road Ext: LA 96 – Corne Road	\$93,857
		4400024084 / H.009300.5	CMAR Contract for Hooper Road Widening (LA 3034 – LA 37)	\$9,676
		H.003931	I-10 Calcasieu River Bridge P3 Project	\$500,000
		4400025047 / H.011358.2	US 190 (Vine Street) Reconstruction	\$57,906
		4400021325 / H.010824.1	US 71 Corridor Study	\$66,131
		LTRC Project No. 26-5SS / SIO No. DOTLT1000610	Expanding Adaptive Traffic Control Systems: A Strategic Study For Louisiana's Arterial Highways	\$97,000
		4400029193 / H.004100.5 and H.004100.6	I-10: LA 415 to Essen Lane on I-10 and I-12 <i>(40% of remaining work is complete and invoiced but awaiting payment)</i>	\$868,084
		4400026028 / H.012311.2	LA 429 Connector (LA 30 / LA 73 TO US 61)	428,536
		4400026027 / H.003771	I-10 at LA 74	256,554
	Road	4400024307 / H.015052	I-20: Widening/Ovrly (Vancil Rd-LA 34)	\$2,883
		4400017033 / H.005121	LA 1/LA 415 Connector	\$628,390
		4400025022 / Multiple State Project Nos	IJJA Off System Bridge Program – Road Task Orders	\$10,377
		H.003931	I-10 Calcasieu River Bridge P3 Project	\$100,000
		4400026028 / H.012311.2	LA 429 Connector (LA 30 / LA 73 TO US 61)	657,630
		4400026027 / H.003771	I-10 at LA 74	67,274
	ITS	4400029193 / H.004100.5 and H.004100.6	I-10: LA 415 to Essen Lane on I-10 and I-12 <i>(40% of remaining work is complete and invoiced but awaiting payment)</i>	\$276,209
		4400026457 / H.013868.5	ITS MGMT, OPERATIONS, & MAINT	\$217,962
		4400026457 / H.013868.6 (A)	ITS MGMT, OPERATIONS, & MAINT	\$107,689
		4400026457 / H.013868.6 (B)	ITS MGMT, OPERATIONS, & MAINT	\$149,134



	ITS	H.003931	I-10 Calcasieu River Bridge P3 Project	\$100,000
	Environmental	4400019338 / Multiple State Project Nos	Rural Bridge Replacement Initiative Phase II	\$17,088
		4400029193 / H.004100.5 and H.004100.6	I-10: LA 415 to Essen Lane on I-10 and I-12 <i>(40% of remaining work is complete and invoiced but awaiting payment)</i>	\$78,917
		4400009281 / H.009932	US 80 Widening: Vancil Road to Well Road EA	\$5,343
		4400025022 / H.015498.5 Recall 102225	Park Road Over Lagoon	\$11,464
		4400025022 / Multiple State Project Nos	IJJA Off System Bridge Program – Env. Task Orders	\$87,426
		4400025625 / H.014622.2	St. Nazaire Road Ext: LA 96 – Corne Road	\$32,977
		H.003931	I-10 Calcasieu River Bridge P3 Project	\$50,000
		4400025047 / H.011358.2	US 190 (Vine Street) Reconstruction	\$5,035
		4400030714 / H.016648.1	I-12@I-55 Interchange Improvement Study	\$175,493
		4400026028 / H.012311.2	LA 429 Connector (LA 30 / LA 73 TO US 61)	691,308
		4400026027 / H.003771	I-10 at LA 74	215,198
	Bridge	4400029193 / H.004100.5 and H.004100.6	I-10: LA 415 to Essen Lane on I-10 and I-12 <i>(40% of remaining work is complete and invoiced but awaiting payment)</i>	\$473,501
		4400025022 / Multiple State Project Nos	IJJA Off System Bridge Program – Bridge Task Orders	\$15,000
		H.003931	I-10 Calcasieu River Bridge P3 Project <i>(20% of remaining work is complete and invoiced but awaiting payment)</i>	\$100,000
	CE&I/OV	4400029193 / H.004100.5 and H.004100.6	I-10: LA 415 to Essen Lane on I-10 and I-12 <i>(40% of remaining work is complete and invoiced but awaiting payment)</i>	\$276,208
		4400027361 / H.011220.6, H.012901.6, H.010634.6	US 90 Engineering Support	\$248,515
		4400016923 / H.012901.6, H.010634.6	US 90Z (Bodenger Blvd. – Stumpf Blvd.)	\$192,319
		4400025046 / H.013710.6	I-10: US 61 to LaPlace ITS Deployment (CE&I)	N/A
		4400025665 / H.013482.6	I-10 WBR Queue Warning System	\$21,492
		44-4128; H.004273	I-49 Connector, Lafayette	\$740,233
	Geotech	44-18899; H.004791	LA 23: Belle Chasse Bridge & Tunnel (HBI)	\$40,545
		44-19013; H.004100.5 & .6	I-10 CMAR Design Continuation: LA 415 TO ESSEN ON I-10 & I-12	\$897,508
		H.004435	I-12 to Bush Construction Phase	\$39,040
		44-8671; H.009266	I-10 Widening: LA 73 to LA 30	\$46,811
		44-17438; H.013284	MRB GBR LA 1 to LA 30 Connector	\$3,979
		44-6189; H.004647.6	I-20 Mississippi River Bridge at Vicksburg	\$1,270,473



Geotech

44-25025; H.015452, H.015453, H.015456, H.015458	IIJA	\$10,461
44-21519; H.012030.5	KCS RR Overpasses US 371	\$39,877
44-21887; H.012542, H.012453, H.012047	Replacement of 15 Bridges	\$185,794
44-6189; H.016313.5, H.016314.5	Culvert Replacements	\$951
H.015430	IIJA	\$3,192
H.001798	LA 531: Bridges Near Dubberly	\$12,533
H.016094	US 371: Brushy Creek Bridge	\$36,357
H.016204	Benton Sidewalks & RR Crossing	\$8,550
H.016328.5	Canal Bridge Iberville Parish	\$14,523
H.016333.5	Over Bayou Bridge Evangeline Parish	\$29,577
H.016334.5	Over Drain Bridge Evangeline Parish	\$36,506
H.016335.5	Canal Bridge Iberville Parish	\$15,354
H.016336.5	Bayou Bridge Evangeline Parish	\$35,039
H.016083.5	W Worthey Sidewalks Ascension Parish	\$41,942



Survey

Bridge

Bridge

Road

CEI/OV

Survey

Survey

4400021594/H.011965.6	Task Order No. 2 - IWGO Bridge Rehabilitation (Drone Flyover)	\$47,688
4400021594/H.009859.5	Task Order No. 6 - Load Rate Selected Statewide Bridges	\$813,327
4400021594/H.009730.5	Task Order No. 8 - In-Depth Bridge Inspections	\$95,757
4400021594/H.015546.6	Task Order No. 9 - Caplis Sligo Road Over Red Chute Bayou	\$5,244
4400021594/H.009859.5	Task Order No. 10 - Statewide Bridge Rating	\$837,955
4400023921/H.015519.6	Task Order No. 5 - Smith Road over Red Chute Bayou	\$9,024
4400024589/H.014990.5	OSBR S. Tiger Bend Rd & East Achord Rd Bridges	\$41,837
4400013387/H.013137.5	OSBR Ouachita	\$12,089
4400019864/H.014318.5	OSBR Gurney Road Bridges	\$4,708
4400025037/H.014994.5	OSBR Bonne Idee Rd over Bonne Bayou	\$3,487
4400024586/H.014981.5	OSBR Hosston River Road	\$5,689
4400024641/H.005734.5	LA 447 Corridor	\$300,449
4400023837/H.013714.6	Valhi Blvd Shared-Use Path (Houma)	\$7,598
4400023837/H.015011.6	Local Rd Striping & Signing (Ascension)	\$242,304
4400023837/H.013753.6	LA 428: Gen Degaulle - Old Behrman	\$228,344
4400021532/H.010116.5	LA 1088: Soult & Trinity Roundabouts	\$22,187
4400021532/H.012059.5	LA 19: Bridges near Zachary	\$19,490
4400021532/H.013195.5	LA 98 Curve Realignment	\$3,753
4400021532/H.005734.5	LA 447 Corridor Study	\$95,561
4400021532/H.012563.5	LA 73: Bayou Manchac Bridge (HBI)	\$461

		4400027919/H.015587.5	LA 3211 @ Yokley Rd Roundabout	\$7,031
		4400021532/H.004100.5	I-10: LA 415 to Essen on I-10 & I-12	\$100,036
		4400031906/H.004791.6	LA 23: Belle Chasse Bridge & Tunnel (HBI)	\$72,104
		4400031925/H.007811.5	Comite River - Cypress Bayou	\$72,812
		4400030630/H.015724.5	Kings Hwy: Healthcare & Dev Corridor	\$8,800
		4400025029/H.015341	D61(EBR) IJJA Off-System Bridge	\$53,978
		4400025029/H.015341	D61(EBR) IJJA Off-System Bridge - SA 3	\$9,113
		H.004100	I-10 Capital Corridor	\$4,240
		4400004128/H.004273.5	I-49 Connector Additional ROW	\$6,692
		4400031228/H.015469.5	Shreveport Pavement Program	\$44,235
	Bridge	Contract No. 4400021514, State Project Nos. H.012003, H.011995, H.010007, H.012568, and H.012000	Contract 2 for Moveable Bridges (5) (5 field work completed)	\$27,747
		Contract 4400021516	Contract for 5 (revised to 4) moveable bridges (two completed)	\$58,170
		Contract 4400021515	Contract for 5 moveable bridges (5 field work completed)	\$42,236
		Contract 4400029683	Contract for St Francisville Bridge (field work completed)	\$9,481
	Road	4400010428, H.004774.5	Kansas-Garrett Connector & I-20 Improvements	\$31,992
		H.009837.5	LA 64: Roundabout @ LA 1019, Routes: LA 1019, LA 64	\$93,726
		4400026026, H.015231.5	US 80 Roundabout @ US 80, LA 15 & LA 546; Routes: US 80, LA 15 & LA 546	\$189,181
	Road	4400026026, H.016037.5	LA 1138-1 & LA 1138-2: Corridor Improvements	\$359,901
		4400026026, H.015615.5	LA 14: Roundabout @ Corbina Road Route: LA 14	\$209,916
		4400026913, H.015200.5	East Street & Parkview Drive Sidewalk (Monroe)	\$51,058
		4400026913, H.016208.5	Shephard St. Sidewalks (Minden)	\$4,000
		4400026913, H.016192.5	US 425 & Arkansas St. Sidewalks (Ferriday)	\$1,631
		4400026913, H.016204	Benton Road, Shed Road Sidewalks & KCS Crossing	\$196,385
		4400031585, H.016797.5	US 80 & US 167 Repairs, (Lincoln Parish)	\$282,023
		4400031585, H.016563.5	LA 151: Claiborne P/L-LA 545, (Lincoln Parish)	\$248,113
	Bridge	4400025025, H.015462.5	Pilgrim Rest Church Road Over Steep Bank Creek, Off-System Bridge	\$4,050
		4400025025, H.015461.5	Firetower Road Over Rock Creek, Off-System Bridge	\$4,150
		4400025025, H.015454.5	Keppler Creek Road Over Sugar Creek, Off-System Bridge	\$4,150
		4400025025, H.015457.5	Olen Hughes Road Over Bayou Bonne Idee, Off-System Bridge	\$8,446
		4400025025, H.015337.5	Mineral Springs Road Over Clark Creek, Off-System Bridge	\$15,600



Survey	4400025025, H.015459.5	Lapine Road Over Rogers Creek, Off-System Bridge	\$1,050
	4400025025, H.015453.5	Hale Road Over Alligator Bayou, Off-System Bridge	\$17,611
	4400025025, H.015456.5	Hodge Road Over Cypress Bayou, Madison Parish Off-System	\$31,798
	4400025025, H.015452	Henderson Loop Road Over Wildcat Bayou	\$67,415
	4400021887, H.012047	US 167 Bridge & US 167 Bridge Relief Over Big Creek	\$165,918
	4400021887, H.012542	LA 114 Bridge Over Belle Deau Bayou/ LA 107 Bridge Over Bayou Jack Relief	\$98,745
	4400021887, H.012543	LA 8 Bridge Over Big Creek	\$96,262
	4400021887, H.012544	LA 120 Bridge Over Creek, Relief No 1-3	\$293,580
	4400021972, H.015641.5	US 165 Super Street (Deloach St.-White St.)	\$427,740
	4400021972, H.015640.5	LA 150 & LA 818 Roundabout	\$64,076
	4400021972, H.014054.5	I-69 FRTG RD CONN (Ellerbe Rd-LA 1), Route: LA 3276-P	\$13,084
	4400027916, H.009837.5	LA 64: Roundabout @ LA 1019, Livingston Parish	\$40,384
	4400027917, H.004825.5	LA 28: Widening: LA 3128 to LA 116 (On Hold)	\$150,908
	4400027735, H.005184	I-69 Frontage Road Connector / Stonewall Fryerson to Ellerbe Road	\$474,190
	4400027687, H.008768.5	Hydrographic Surveying Monitoring (North Region)	\$24,485
Other (Roadway Lighting)	H.015504.6 - Task Order 6	CCC Decorative Lighting	\$6,625
	JN 3144	Expert witness services in bridge design, construction, repair and forensic analysis	\$195,719
	Contract 44-29193 H.004100.5/H.004100.6	Subconsultant: LA 415 to Essen Lane on I-10 and I-12 Segment 1 Task 2	\$228,487
	Contract 44-21128 H.014258	Subconsultant: LA 1: Port Allen Canal Bridge Replacement - Phase 2 CRES	\$394,111
	H.011137.6 - Task Order 5	I-12: LA 1077 to LA 21	\$108,195
	H.002980.6 -Task Order 9	I-10 Overpass Over US 165 & MP RR	\$49,009
	H.014998.6 -Task Order 11	West Larose Lift Bridge Rehabilitation - CRES Close Out	\$62,222
	H.001271.5 - Task Order 13	Cane River Bridge Navigation Lights	\$178,768
	H.014609.1 - Task Order 14	Cameron Ferry Landing Replacement	\$217,545
	H.004647.6 - Task Order 15	I-20: MRB Geotechnical and Structural - Vicksburg Monitoring	\$90,403
Bridge	H.011705 - Task Order 17	US 11 Rehabilitation Close-out Continuation CRES	\$8,310



		H.014465.5 - Task Order 20	Vermillion River Bridge (Perry Bridge Rehab 2025 - Add Scope)	\$5
		H.015115.6 - Task Order 19	LA 224 at ICWW Girder Repair CRES	\$40,987
		H.014465.6 - Task Order 7	LA 82 Perry Bridge Rehabilitation CRES	\$1,204,101
		Contract 44-05673 H.011235.5	Subconsultant: I-49 South @ Verot School Road	\$2,979
		Contract 44-05673 H.011235.5	Subconsultant: I-49 South @ Verot School Road	\$290
		H.009859.5 - Task Order 1	Bridge Load Rating	\$284,231
		H.009859.5 - Task Order 2	Load Rating of 10 Statewide Bridges	\$714,699
		Contract 44-22581, H.011222.5	I-10: N.O. CBD4 (Louisa - I510)	\$143,058
		H.009859.5	Bayou Barataria - Limited Rehabilitation	\$39,030
		H.009730.5 Task Order 1	Complex Inspection - Structural, Mechanical, Electrical LA 56 and LA 661	\$124,463
		H.009730.5 Task Order 2	Complex Inspection - Structural, Mechanical, Electrical	\$564,488
	CE&I/OV	H.011487.6	LA 182: Berwick Bay Bridge Rehabilitation	\$1,007,297
	CE&I/OV	H.015028.6	LA 302: Bayou Barataria MB Repl Phase I	\$680,531
		H.003144.6	MRB (Luling) CEI of Latent Defects	\$4,293
		H.003144.6 - Supp No. 1	Luling Exit Pipe Sealing CE&I 2026	\$174,790
	Bridge	4400029207; H.009730.5	IDIQ Contract for Underwater Inspections – Task Order 1	\$1,730,605
		4400029683; H.009730.5	IDIQ Contract for Complex Bridge Inspections – Task Order 1	\$396,506
		4400024187; H.014609.1	IDIQ Contract for Bridge Preservation – Task Order 14 Cameron Ferry Landing Replacement	\$36,453
	Rail	4400011834; H.012811.1	Railroad Inventory Systems Railroad Inventory Upgrade – Supplemental Agreement 1	\$21,602
	Bridge	44-21595, H.009859	Load rating of 300 bridges	\$312,256
		44-31060, H.01248	Load rating of 117 bridges (off-system)	\$120,392
		44-30996, H.011487	Berwick Bay Bridge Rehab (Construction Support)	\$3,836
		44-30996, H.010015	H.010015.5 -LA 143 BAYOU D'ARBONNE BRIDGE	\$2,486
		44-30996, H.012028	I-20: LAKE SHORE DRIVE/KCS OVERPASS REHAB (Phase I)	\$25,600
		44-27650, H016525	H.016525.5-US 80: MILE CREEK BRIDGE REPAIR	\$28,852



Other (SUE)	44-17033 / H.005121.9	SUE - LA 415 Connector - I10 to La 1	\$ 326,401
	4400027349	I-10 Calcasieu Project P3	\$5,749,687
CPM	44-30226 / H.014258.6	RCL - LA 1: Port Allen Canal Bridge Replacement (Phase 2) (HBI)(CE&I)	\$69,951
	44-31862 / S.P. Multiple	Contract For Consulting Services Critical Path Method (CPM) Analysis	\$316,272
Survey	44-23943 / H.014886.5	US 90: LAFITTE AVE TO FRANCE RD	\$70,053
	H015932	LA 182: City of Franklin	\$56,232
Survey	44-29196 / H016255.5	LADOTD LA 1: WGS Riverplex	\$89,707.51
	44-17033 / H.005121	LA 415 Connector - I10 to La 1	\$131,201
Road	44-23943; H.009892	US 90 FR: Exit to LA 329	\$300,466
	44-23943; H.016278	US 167: Median Improvements	\$24,586
	44-23943; H.014886.5	US 90: Lafitte Ave to France Rd	\$112,925
	44-27093; H.016110	LA 31: LA 94 – LA 341	\$16,959
	44-23943; H.013941	LA 724: Roundabout at Landry Rd	\$16,496
	44-27093; H.014041	Inter. Imp. on LA 92 @ LA 733 & Gallet Rd.	\$16,943
	44-28432; H.015569.5	LA 44: I-10 Roundabouts	\$290,282
	44-23943; H.012633	LA 1088 Forest Brook Blvd Roundabout	\$281,055
	44-27093; H.015849	US 190: R-Cut @ LA 741	\$5,865
	44-27093; H.014824	US 90 @ Wax Lake	\$7,000
	44-27093; H.015847	US 90: LA 668 to LA 318	\$192,208
	44-27093; H.015949	LA 335: E JCT LA 694 – LA 14	\$10,530
	44-27735; H.014056	I-69 Frontage Rd Connector (Stonewall Frierson)	\$126,570
	44-27735; H.005184	I-69 Frontage Rd Connector (Stonewall to Ellerbe Rd)	\$485,000
	44-27735; H.014054	I-69 Frontage Rd Connector (Ellerbe Rd to LA 1)	\$281,042
	44-24641; H.005734.5	LA 447: I-12 to Buddy Ellis Road	\$297,227
	44-30072; H.016773	LA 1: Old River Road to Broadway Ave	\$215,529
	44-30072; H.015291	LA 158: LA 8 - US 71	\$212,313
	44-30072; H.016296	LA 191: 286'N of LA 1218 - LA 174	\$206,900
	44-30072; H.015313	LA 156: LA 479 - LA 501	\$237,789
	44-30072; H.016775	LA 121: Vernon P/L - LA 112	\$210,736
CE&I/OV	44-23943; H.011909.6	US 171 Roundabout at Boone St. Construction Support	\$64,558
	44-23943; H.011137 &	I-12 Construction Support Contract 2	\$36,677
	44-23943; H.010960	LA 30 Construction Support 2	\$47,574
	44-23943; H.009892	US 90 FR: Exit to LA 329 Construction Support	\$10,000



Other (Project Managem ent)	44-28432; H.015569.5	LA 44: I-10 Roundabouts	\$32,253
	44-27735; H.014056	I-69 Frontage Rd Connector (Stonewall Frierson)	\$204,885
	44-27735; H.005184	I-69 Frontage Rd Connector (Stonewall to Ellerbe Rd)	\$279,379
	44-27735; H.014054	I-69 Frontage Rd Connector (Ellerbe Rd to LA 1)	\$289,959
	32184S-T001; H.011909	US 171 – Trial Services	\$3,315
	32184S-T003	LA 30 Roundabout - Trial Services	\$7,000
	32184S-T002; H.011909	US 171 – Property Report	\$3,200
	44-25029; H.015545	Stoney Point Burch over Drainage Bayou	\$745
	44-25029; H.015550	Pride-Baywood Over Mill Creek	\$745
	44-27735; H.005184	I-69 Frontage Rd Connector (Stonewall to Ellerbe Rd)	\$123,138
	44-27735; H.014054	I-69 Frontage Rd Connector (Ellerbe Rd to LA 1)	\$64,690
	44-27735; .014056	I-69 Frontage Rd Connector (Stonewall Frierson)	\$184,114
	44-27735; H.005184	I-69 Frontage Rd Connector (Stonewall to Ellerbe Rd)	\$147,000
	44-27735; H.014054	I-69 Frontage Rd Connector (Ellerbe Rd to LA 1)	\$191,270

STAFF CERTIFICATION CHART SUMMARY

Names	Firm	Relevant Certification
Osama Shahawy, PE <i>Meets MPR No. 4</i>	 ARCADIS	FHWA – NHI Course No. 130055 Safety Inspection of In-Service Bridges
Jose L. Rodriguez, PE <i>Meets MPR No. 8</i>	 ARCADIS	ATSSA Traffic Control Supervisor
Jason Morrell, PWS <i>Meets MPR No. 14</i>	 ARCADIS	Professional Wetland Specialist Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 NHI course No. 142005, “National Environmental Policy Act and Transportation Decision Making” FHWA – NHI Course No. 142047 – Water Quality Management of Highway Runoff Institute for Wetland & Environmental Education & Research, Inc. – Corps Wetland Delineation Manual Watershed Hydrology Consultants, LLC – Assessing and Advancing Watershed Management – Identification of Intermittent and Perennial Streams
Ari Deitch, PE, PTOE, PTP, RSP	 ARCADIS	Road Safety Professional (RSP) Professional Traffic Operations Engineer (PTOE) Professional Transportation Planner (PTP) Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 ATSSA Traffic Control Supervisor NHI - Highway Safety Manual Workshop NHI Traffic Signal Design & Operation
Kester Hollier, PE, PTOE	 ARCADIS	Professional Traffic Operations Engineer (PTOE) Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 ATSSA Traffic Control Supervisor
	 ARCADIS	
Max Aguirre, PhD, PE, PTOE, RSP2I	 ARCADIS	Professional Traffic Operations Engineer Road Safety Professional 2I ATSSA Traffic Control Supervisor Traffic Engineering Analysis Process & Report Modules 1, 2, & 3

Names	Firm	Relevant Certification
Chace Hulon, PE	 moffatt & nichol	FHWA – NHI Course No. 130053 Bridge Inspection Refresher Training FHWA – NHI Course No. 130091 Underwater Bridge Inspection SPRAT Level 2 Technician
Bryan Tyson, PE, ADCI	 moffatt & nichol	ATSSA Traffic Control Supervisor FHWA – NHI Course No. 130053 Bridge Inspection Refresher Training FHWA – NHI Course No. 130091 Underwater Bridge Inspection SPRAT Level 1 Technician ADCI Entry Level Tender/Diver
Jeffrey Gazarek, ADCI	 moffatt & nichol	ATSSA Traffic Control Supervisor FHWA – NHI Course No. 130053 Bridge Inspection Refresher Training ADCI Mixed Gas Diving Supervisor COSM Certificate for Occupational Safety managers
Christopher Eschenbach, ADCI, CWI	 moffatt & nichol	FHWA – NHI Course No. 130053 Bridge Inspection Refresher Training FHWA – NHI Course No. 130091 Underwater Bridge Inspection SPRAT Level 1 Technician ADCI Surface Supplied Air Diving Supervisor AWS QC1, Standard for AWS Certification for Welding Inspectors
Ronald Riggin, II, PE, PLS <i>Meets MPR No. 10</i>	 LAZENBY & ASSOCIATES, INC.	ATSSA Traffic Control Supervisor
Paul Fryer, PE, PLS	 LAZENBY & ASSOCIATES, INC.	ATSSA Traffic Control Supervisor
James Ellingburg, PE, LSI	 LAZENBY & ASSOCIATES, INC.	ATSSA Traffic Control Supervisor Traffic Engineering Analysis Process & Report Modules 1, 2, & 3
Jerry Lazenby, PE, PLS	 LAZENBY & ASSOCIATES, INC.	ATSSA Traffic Control Supervisor
Noah Sampognaro, PE, LSI	 LAZENBY & ASSOCIATES, INC.	ATSSA Traffic Control Supervisor
	 LAZENBY & ASSOCIATES, INC.	
Joffrey Easley, PE <i>Meets MPR No. 4</i>	 FORTE & TABLADA	ATSSA Traffic Control Supervisor ATSSA Certified Flagger FHWA – NHI Course No. 130053 Bridge Inspection Refresher Training FHWA – NHI Course No. 130055 Safety Inspection of In-Service Bridges FHWA – NHI Course No. 130078 Fracture Critical Inspection Techniques for Steel Bridges LADOTD LPA Qualifications Program CE&I Training LADOTD-Mead & Hunt Maintenance and Rehabilitation of Historic Bridges

Names	Firm	Relevant Certification
Levi Yantis, PE <i>Meets MPR No. 4</i>		ATSSA Online Flagger Certification FHWA – NHI Course No. 130078 Fracture Critical Inspection Techniques for Steel Bridges FHWA – NHI Course No. 130078 Bridge Inspection for Nonredundant Steel Tension Members (NTSM) FHWA – NHI Course No. 130055 Safety Inspection of In-Service Bridges FHWA – NHI Course No. 130053 Bridge Inspection Refresher Training FHWA – NHI Course No. 13017C Maintenance of Moveable Projects LADOTD-Mead & Hunt Maintenance and Rehabilitation of Historic Bridges
Jayson Helsel, PE		AMPP Protective Coatings Specialist NACE Certified Coating Inspector – Level 3
James Kretzler		AMPP Basic Coatings Inspector ASNT NDT Level III Magnetic Particle Testing ASNT NDT Level III Liquid Penetrant Testing ASNT NDT Level III Radiographic Testing ASNT NDT Level III Ultrasonic Testing AWS QC1, Standard for AWS Certification for Welding Inspectors
Rob Lanterman		AMPP Protective Coatings Specialist AMPP Senior Certified Coatings Inspector
Adam Fields, PE <i>Meets MPR No. 8</i>	 Stanley Consultants	ATSSA Traffic Control Supervisor
Jesse Tisdale, PE <i>Meets MPR No. 8</i>	 Stanley Consultants	Traffic Engineering Analysis Process & Report Modules 1, 2, & 3 ATSSA Traffic Control Supervisor
Aidan Carter, PE	 Stanley Consultants	ATSSA Traffic Control Supervisor ATSSA Certified Flagger
Caitlin Marks	 Stanley Consultants	ATSSA Certified Flagger
Jared Blohowiak, PE	 Stanley Consultants	ATSSA Traffic Control Supervisor ATSSA Certified Flagger
Megan Bourgeois, PE		ATSSA Traffic Control Supervisor ATSSA Certified Flagger
Casey Floyd		ATSSA Traffic Control Supervisor ATSSA Certified Flagger Water Well Contractor's License

Names	Firm	Relevant Certification
Jarmon King, PE	 Ardaman & Associates, Inc.	ATSSA Traffic Control Supervisor ATSSA Certified Flagger PDCA Basic Dynamic Measurement Analysis Proficiency Test
Robert Jewell, PE	 Ardaman & Associates, Inc.	ATSSA Traffic Control Supervisor ATSSA Certified Flagger PDCA Advanced Dynamic Measurement Analysis Proficiency Test
Louisiana's Secretary of State (SOS) Registration Screenshots for: Arcadis U.S., Inc., SDR Consultants, Inc. Moffat & Nichol, Lazenby & Associates, Inc., Forte & Tablada, Modjeski and Masters, Inc., KTA-TATOR, INC., Stanley Consultants, Inc., Ardaman & Associates, Inc., and SAM formerly SJB Group is located at the end of this section.		



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

Osama A. Shahawy

has participated in

FHWA-NHI-130055 Safety Inspection of In-Service Bridges

hosted by

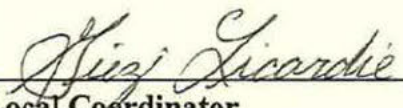
Chicago Transit Authority & HBM Engineering Group, LLC

Date: January 05-16, 2015

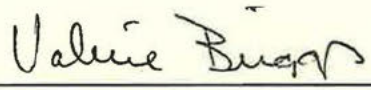
Hours of Instruction: 67 Hours

Location: Chicago, IL


Instructor


Local Coordinator


Instructor


Valerie Briggs, Director
National Highway Institute



Jose Rodriguez
has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 29-MAR-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



***Society of Wetland Scientists
Professional Certification Program, Inc***

renews the designation

Professional Wetland Scientist

For

Jason E. Morrell

In recognition of all the professional requirements approved by the Society of Wetland Scientists Certification
Renewal Program, and verified by the Society's Certification Renewal Review Panel.
Professional Wetland Scientist Number 2319 issued on 4/1/2013 and recertified on 5/2/2023.
Due to recertify again by 4/1/2028.



Rob McInnes, PWS
President

Pat Frost, PWS
Certification Renewal Chair

U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute
Certificate of Training
JASON MORRELL



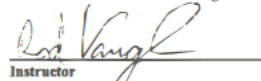
has participated in
**FHWA-NHI-142005 NEPA and the Transportation
Decisionmaking Process**

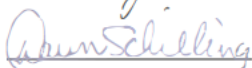
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LA DOTD/LTRC

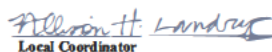
Date: December 3-5, 2018

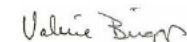
Hours of Instruction: 18

Location: Baton Rouge LA


Instructor


Instructor


Local Coordinator


Valerie Briggs, Director

National Highway Institute

National Highway Institute

Certificate of Training



Jason Morrell

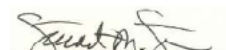
has participated in
FHWA-NHI-142047 Water Quality Management of Highway Runoff

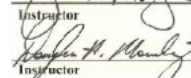
hosted by
Georgia Department of Transportation

Date: October 25-26, 2011

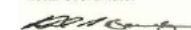
Hours of Instruction: 12 hours

Location: Atlanta, GA


Instructor


Instructor


Local Coordinator


Richard Barnaby, Director
National Highway Institute

INSTITUTE FOR WETLAND & ENVIRONMENTAL
EDUCATION & RESEARCH, INC.

CERTIFICATE OF TRAINING

This certifies that

JASON MORRELL

has completed wetland delineation training in the use of the

CORPS WETLAND DELINEATION MANUAL

Note: This training has been based in part on the U.S. Army Corps of Engineers Wetlands Manual, Technical Report Y-87-1 (1987 Manual), as provided for in the training materials developed in conjunction with Section 307(e) of the Water Resources Development Act of 1990 for the Wetland Delineator Certification Program.


Barbara J. Tiner, President

September 2002
Date

P.O. Box 288, Leverett, MA 01054 (413) 548-8866 www.wetlanded.com

Apalachicola, Chattahoochee, and Flint River Basins

Certificate of Completion

AWARDED TO

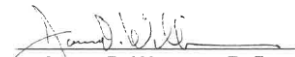
Jason Morrell

FOR SUCCESSFULLY COMPLETING THE

ACF FRESHWATER MUSSEL WORKSHOP

TOPICS INCLUDED: MUSSEL EVOLUTION, TAXONOMY, BIOLOGY, ECOLOGY, TERMINOLOGY, SHELL IDENTIFICATION, ISSUES AFFECTING MUSSEL POPULATIONS, CURRENT RESEARCH, PROPOSED FEDERAL AND STATE LISTINGS, MOLECULAR, GENETIC AND PROPAGATION TECHNIQUES, SURVEY METHODS, AS WELL AS RECOVERY EFFORTS. THE COURSE INSTRUCTION INCLUDED LECTURE, HANDS-ON CLASSROOM AND FIELD IDENTIFICATION OF FRESHWATER MUSSELS OF THE ACF.

Newton, Georgia
August 6-9, 2012


JAMES D. WILLIAMS PH.D.
MALACOLOGIST



Watershed Hydrology Consultants LLC
Assessing and Advancing Watershed Management

Certificate of Training

This certifies that

Jason Morrell

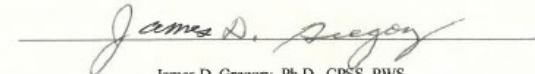
has successfully completed the

**Training Course on the Identification
of Intermittent and Perennial Streams**

May 21-23, 2012
Atlanta, Georgia

Classroom instruction and field instruction and practice were provided on: (1) The science of stream networks; hydrologic functions of streams and riparian zones; stream maps; and the geomorphologic, hydrologic, and biologic characteristics of headwaters streams; and (2) North Carolina Division of Water Quality, *Methodology for Identification of Intermittent and Perennial Streams and Their Origins*, Version 4.11, 2010.

Instruction provided by: Watershed Hydrology Consultants LLC, 1114 Upper Reach Drive, Wilmington, NC 28409; James D. Gregory; Principal/Senior Scientist and Lead Instructor


James D. Gregory, Ph.D., CPSS, PWS
Course Director

Certificate of Completion

presented to

Jason Morrell

for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: March 29, 2022
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3



Authorized Instructor



Authorized Instructor



Authorized instructor

Certificate of Completion

presented to

Jason Morrell

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: March 29, 2022
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3



Authorized Instructor



Authorized Instructor



Authorized instructor

Certificate of Completion

presented to

Jason Morrell

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: March 30, 2022
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3



Authorized Instructor



Authorized Instructor



Authorized instructor

Transportation Professional Certification Board, Inc.

certifies that

Ariel Jacob Deitch

*has met all of the requirements established by the Certification Board
to use the title of*

Professional Traffic Operations Engineer

*unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 4346 issued in Washington, DC, USA*

11/20/17


Michael K. Park
Chair




Jeffrey F. Paniati
Executive Director

Certificate of Completion

presented to

Ari Deitch

for completing the

Traffic Engineering Analysis Process & Report Module 1

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

Professional Development
Hours (PDHs) Awarded: 2

Poly A. Colvane
Authorized Instructor

John Hitt
Authorized Instructor

Robert J. Bunnell
Authorized instructor



Certificate of Completion

presented to

Ari Deitch

for completing the

Traffic Engineering Analysis Process & Report Module 2

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

Professional Development
Hours (PDHs) Awarded: 3

Poly A. Colvane
Authorized Instructor

John Hitt
Authorized Instructor

Robert J. Bunnell
Authorized instructor



Certificate of Completion

presented to

Ari Deitch

for completing the

Traffic Engineering Analysis Process & Report Module 3

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

Professional Development
Hours (PDHs) Awarded: 3

Poly A. Colvane
Authorized Instructor

John Hitt
Authorized Instructor

Robert J. Bunnell
Authorized instructor





ATSSA

Safer Roads Save Lives

Ari Deitch
has attended
Louisiana Traffic Control Supervisor

Completed: 22-FEB-2024

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

Certificate of Professional Development Hours
presented to

Ari Deitch

for attending the

**Highway Safety Manual Workshop
12 PDHs**

on

May 2-3, 2013

Baton Rouge, Louisiana


Authorized By



Research, Technology Transfer, Education and Training





U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

ARI DEITCH

has participated in

***FHWA-NHI-133121 Traffic Signal Design
and Operation***

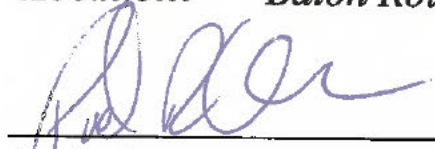
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LA DOTD/LTRC

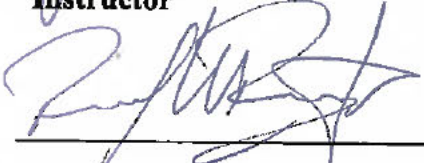
Date: *August 16-17, 2017*

Hours of Instruction: 11

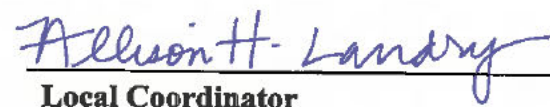
Location: *Baton Rouge, LA*



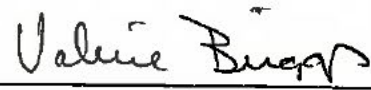
Instructor



Instructor



Local Coordinator



**Valerie Briggs, Director
National Highway Institute**

Transportation Professional Certification Board Inc.

certifies that

Hester Berk Hollier

*has met all of the requirements established by the Certification Board
to use the title of*

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

unless withdrawn by the Certification Board and subject to the provisions for renewal.

Certificate number 3928 issued in Washington, D.C., U.S.A.

November 18, 2015

Kim H. W. Stout
Chair



[Signature]
Executive Director



Kester Hollier
has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 29-JUL-2023

CEU (If Applicable):

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This certificate provides proof of training, not certification.

American Traffic Safety Services Association
ATSSA.com

Certificate of Completion

presented to

Kester Hollier

for completing the

Traffic Engineering Analysis Process & Report Module 1

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

Professional Development
Hours (PDHs) Awarded: 2

John J. Colvine
Authorized Instructor

John Hitt
Authorized Instructor

P. G. Brumfield
Authorized instructor



Certificate of Completion

presented to

Kester Hollier

for completing the

Traffic Engineering Analysis Process & Report Module 2

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

Professional Development
Hours (PDHs) Awarded: 3

John J. Colvine
Authorized Instructor

John Hitt
Authorized Instructor

P. G. Brumfield
Authorized instructor



Certificate of Completion

presented to

Kester Hollier

for completing the

Traffic Engineering Analysis Process & Report Module 3

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

Professional Development
Hours (PDHs) Awarded: 3

John J. Colvine
Authorized Instructor

John Hitt
Authorized Instructor

P. G. Brumfield
Authorized instructor



Transportation Professional Certification Board, Inc.

certifies that

Max Aguirre

*has met all of the requirements established by the Certification Board
to use the title of*

Professional Traffic Operations Engineer

unless withdrawn by the Certification Board and subject to the provisions for renewal.

Certificate number 5291 issued in Washington, DC, USA

7/13/2022

Deborah L. Snyder

*Deborah Snyder
Chair*



**PROFESSIONAL TRAFFIC
OPERATIONS ENGINEER**

Jeffrey F. Paniati

*Jeffrey F. Paniati
Executive Director*

Transportation Professional Certification Board, Inc.

certifies that

Max Aguirre

*has met all of the requirements established by the Certification Board
to use the title of*

Road Safety Professional

unless withdrawn by the Certification Board and subject to the provisions for renewal.

Certificate number 636 issued in Washington, DC, USA

8/3/2021

Deborah Snyder
Deborah Snyder
Chair



Jeffrey F. Panzani
Jeffrey F. Panzani
Executive Director

ATSSA
Safer Roads Save Lives

Max Aguirre

has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 18-SEP-2025

CEU (If Applicable): 0.75

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

American Traffic Safety Services Association
ATSSA.com



The Transportation Professional Certification Board

Certifies that

Max Aguirre, Ph.D.,PE,PTOE,RSP2I

successfully renewed the Road Safety Professional Infrastructure® (Level 2) certification

Original Certification Date: 7/9/2024

Certification Valid Through: 7/9/2027

Jeffrey F. Paniati,
Executive Director and CEO

Joseph C. Balskus, P.E., PTOE, RSP1
TPCB Chair

Certification Number: 182

Certificate of Completion

presented to

Max Aguirre

for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 2.5

Poly Colina
Authorized Instructor

John Holt
Authorized Instructor

Robert Brumfield
Authorized instructor



Certificate of Completion

presented to

Max Aguirre

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3.5

Poly Colina
Authorized Instructor

John Holt
Authorized Instructor

Robert Brumfield
Authorized instructor



Certificate of Completion

presented to

Max Aguirre

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: January 30, 2020
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3.5

Poly Colina
Authorized Instructor

John Holt
Authorized Instructor

Robert Brumfield
Authorized instructor





James Ellingburg
has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 19-JUL-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

Certificate of Completion

presented to

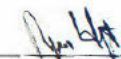
James Ellingburg

for completing the

**Traffic Engineering Analysis Process & Report Class
Module 1, 2 & 3**

Date: August 11 – 12, 2021
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 8.50


Authorized Instructor


Authorized Instructor





National Highway Institute
Certificate of Training



Chace Hulon

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Office of State Aid Road Construction

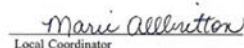
Date: May 16-18, 2023

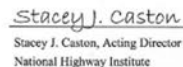
Location: Ridgeland, MS

Hours of Instruction: 18


Instructor


Instructor


Local Coordinator


Stacey J. Caston, Acting Director
National Highway Institute



National Highway Institute
Certificate of Training



Chace Hulon

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

California Department of Transportation

Date: April 23-26, 2024

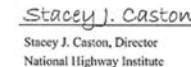
Location: Sacramento, CA

Hours of Instruction: 24


Instructor


Instructor


Local Coordinator


Stacey J. Caston, Director
National Highway Institute



**SOCIETY OF PROFESSIONAL
ROPE ACCESS TECHNICIANS**

Rope Access Certification



Acknowledges that

CHACE HULON

*has successfully completed the evaluation and written test
in accordance with SPRAT's Rope Access Certification Requirements
and is a certified*

Level 2 Technician

SPRAT #070712

AWARDED: 25 January, 2025

Expires: 17 March, 2028


DAVE SARTONE, EVALUATIONS COMMITTEE CHAIR

MATT HUNT, SPRAT PRESIDENT

SPRAT's Technician Verification System may be used to verify the accuracy of data on this certificate.
©2012 - Present, Society of Professional Rope Access Technicians



National Highway Institute



Certificate of Training

Bryan Tyson

has participated in

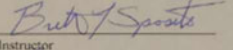
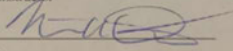
FHWA-NHI-130091 Underwater Bridge Inspection

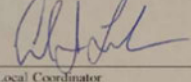
Issued by

A.DiCesare Associates, PC

Date: October 10-13, 2023
Location: Wethersfield, CT

Hours of Instruction: 24


Instructor

Instructor


Local Coordinator
Stacey J. Caston
Stacey J. Caston, Director
National Highway Institute



National Highway Institute



Certificate of Training

Bryan Tyson

has Successfully Completed

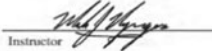
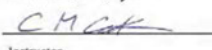
FHWA-NHI-130053 Bridge Inspection Refresher Training (SNBI)

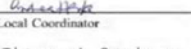
hosted by

California Department of Transportation

Date: February 27-29, 2024
Location: Oakland, CA

Hours of Instruction: 22


Instructor

Instructor


Local Coordinator
Stacey J. Caston
Stacey J. Caston, Director
National Highway Institute



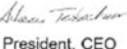
PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Bryan Tyson
has attended
Louisiana Traffic Control Supervisor
Training Course

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

Baton Rouge, LA
Location


Vice President of Education and Technical Services

President, CEO

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



American Traffic Safety Services Association ATSSA.com



**SOCIETY OF PROFESSIONAL
ROPE ACCESS TECHNICIANS**
Rope Access Certification



Acknowledges that

BRYAN TYSON

has successfully completed the evaluation and written test
in accordance with SPRAT's Rope Access Certification Requirements
and is a certified
Level 1 Technician

SPRAT # 172995
AWARDED: 13 June, 2025
Expires: 17 June, 2028


STACEY J. CASTON, STACEY J. CASTON COMPANY CHAIR
NATL. TRNG. SPRT PRESIDENT

SPRAT's Technician Evaluation System may be used to verify the accuracy of data on this certificate.
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National Highway Institute
Certificate of Training



Jeffrey Gazarek

has successfully completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Louisiana Department of Transportation & Development

Date: June 16-18, 2025

Hours of Instruction: 22

Location: Baton Rouge, LA

Mark Nyerges Digitally signed by Mark Nyerges
Date: 2025.06.25 16:22:29 -0400

Instructor

Earl Dubin Digitally signed by Earl Dubin
Date: 2025.06.25 16:34:57
GMT

Instructor

Allison Landry

Local Coordinator

Stacey Caston

Stacey Caston, Director
National Highway Institute

Certificate

of completion awarded to

Jeffrey Gazarek, COSM

for successfully meeting all recertification requirements of

**CERTIFICATE FOR OCCUPATIONAL SAFETY
MANAGERS**



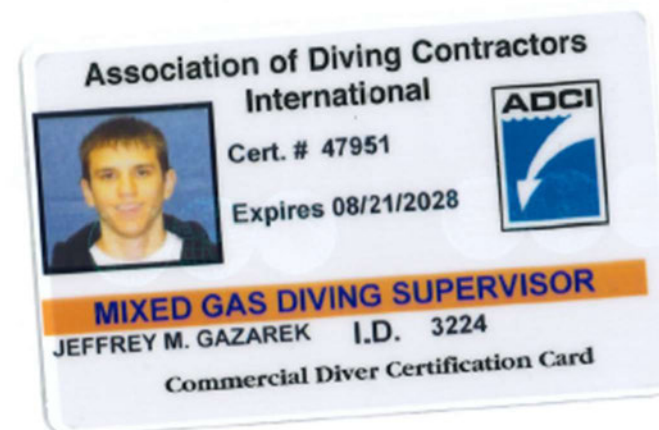
Expiration: December 31, 2025
Student ID #: 9657344
Certificate #: 324896

Katherine Fisher

President C.O.

Stacey Caston

VP of Learning Innovation





National Highway Institute
Certificate of Training
CHRISTOPHER A. ESCHENBACH



has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

LA DOTD/LTRC

Date: January 10-12, 2023

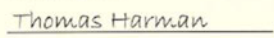
Hours of Instruction: 18

Location: Baton Rouge, LA


Instructor


Local Coordinator


Instructor


Thomas Harman, Director
National Highway Institute



National Highway Institute
Certificate of Training
Christopher Eschenbach



has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

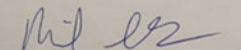
hosted by

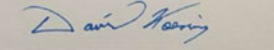
Missouri Department of Transportation

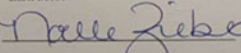
Date: October 28-31, 2024

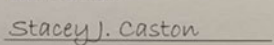
Hours of Instruction: 24

Location: Jefferson City, MO


Instructor


Local Coordinator


Instructor


Stacey J. Caston, Director
National Highway Institute



**SOCIETY OF PROFESSIONAL
ROPE ACCESS TECHNICIANS**
Rope Access Certification



Acknowledges that

**CHRISTOPHER ALLEN
ESCHENBACH**

*has successfully completed the evaluation and written test
in accordance with SPRAT's Rope Access Certification Requirements
and is a certified*

Level 1 Technician

SPRAT #200515

AWARDED: 25 January, 2025

Expires: 25 January, 2028


DAVID SAMSON, EVALUATIONS COMMITTEE CHAIR

MATT HENS, SPRAT PRESIDENT

SPRAT's <https://www.sprat.org/verify> may be used to verify the accuracy of data on this certificate.





Jerry Lazenby
has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 19-JUL-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



Noah Sampognaro
has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 19-JUL-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



Paul Fryer
has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 18-OCT-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



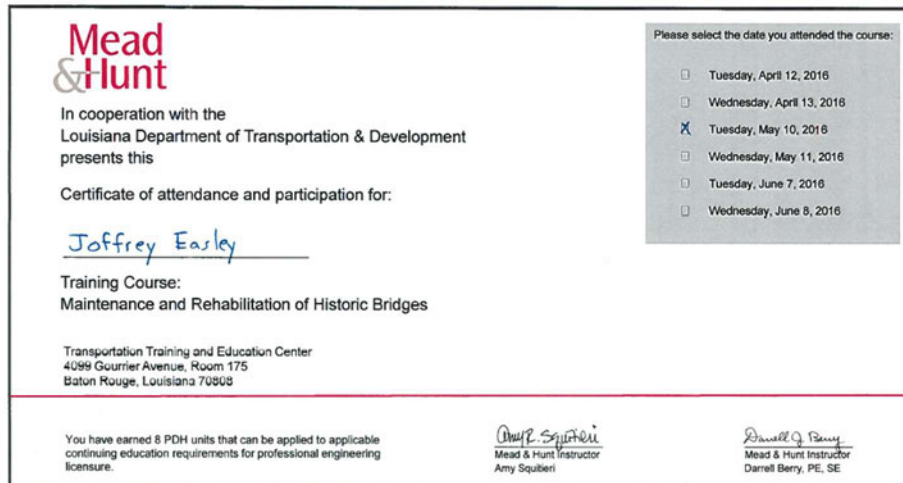
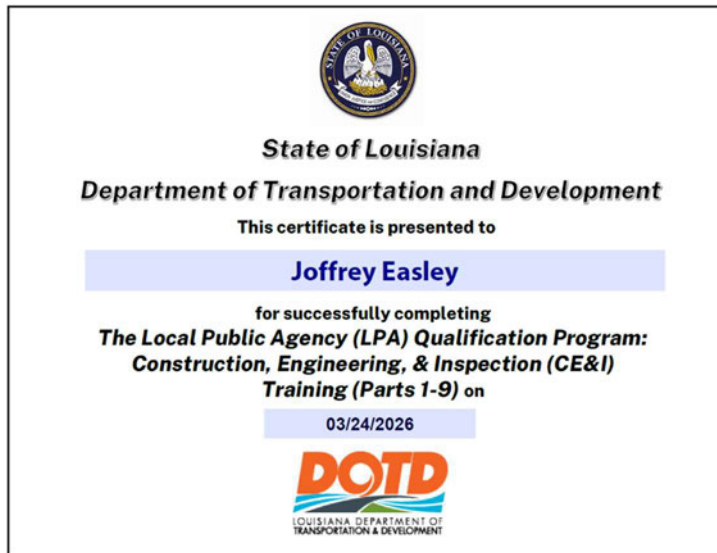
Ronald Riffin
has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 19-JUL-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





National Highway Institute



Certificate of Training

LEVI YANTIS

has participated in

**FHWA-NHI-130078 Fracture Critical Inspection
Techniques for Steel Bridges**

hosted by

LA DOTD/LTRC

Date: February 26 – March 1, 2019 Hours of Instruction: 25
Location: Baton Rouge, LA

Instructor

Local Coordinator

Michael Davies, Director
National Highway Institute



National Highway Institute



Certificate of Training

Levi Yantis

has participated in

NHI Course No. FHWA-NHI-130107C
Maintenance of Movable Bridges

hosted by

National Highway Institute

Location: Web-Based Course Hours of Instruction: 4 hours
Date: 2/15/2020

Michael Davies, P.E.
Director, National Highway Institute



National Highway Institute



Certificate of Training

LEVI YANTIS

has participated in

**FHWA-NHI-130055
Safety Inspection of In-Service Bridges**

hosted by

LA DOTD/LTRC

Date: December 4-15, 2017 Hours of Instruction: 67
Location: Baton Rouge, LA

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute



CERTIFICATE OF TRAINING

Levi Yantis

has successfully completed

NHI Course 130078

Bridge Inspection Techniques for Nonredundant Steel Tension Members (NSTM)

Date: 01/09/2020 Instructional Hours: 20
Location: Baton Rouge
Instructor(s): Michael Dukes, Dustin Noel

Stacey J. Caston, Director
National Highway Institute



National Highway Institute



Certificate of Training

LEVI YANTIS

has successfully completed

**FHWA-NHI-130053
Bridge Inspection Refresher Training**

hosted by

LA DOTD/LTRC

Date: January 11-13, 2022 Hours of Instruction: 18
Location: Baton Rouge, LA

Instructor

Instructor

Local Coordinator

Thomas Harman, Director
National Highway Institute



In cooperation with the
Louisiana Department of Transportation & Development
presents this

Certificate of attendance and participation for:

Levi Yantis

Training Course:
Maintenance and Rehabilitation of Historic Bridges

July 2020

You have earned 4 PDH units that can be applied to applicable
continuing education requirements for professional engineering
licensure.

Mead & Hunt Instructor
Amy Squibbi

Mead & Hunt Instructor
John A. Rathke, PE, SE



Certifies

Jayson Helsel, PCS

Has fulfilled the requirements for recognition as an **SSPC**

PROTECTIVE COATINGS SPECIALIST

Valid Through December 31, 2027

2011-930-152
Certification Number

September 30, 2011
Original Date Issued


Executive Director AMPP





ASNT CERTIFICATION SERVICES LLC.



BE IT KNOWN THAT James Kretzler

has met the established and published Requirements for Certification by
ASNT Certification Services LLC. in the following Nondestructive Testing Method:
NDT Level III Magnetic Particle Testing

186946
Certificate Number



11/01/2025
Issue Date

John J. Kretzler
ASNT Certification
Services LLC. President

10/31/2030
Expiration Date

John J. Kretzler
Certification Management
Committee Chair

All ASNT NDT Level III exams are developed and maintained in accordance with ISO/IEC 17024 guidelines for certification of persons. The following exams are currently accredited by The ANI National Accreditation Board (ANAB) - BASIC, CL, MT, PT, RT, UT, and VT. This certificate is the property of ASNT Certification Services LLC. It is not official without ASNT Certification Services LLC's logo and is subject to revocation prior to the expiration date. This certificate shall be verified on www.asntcertification.org/verify or by contacting ASNT Certification Services LLC.



ASNT CERTIFICATION SERVICES LLC.



BE IT KNOWN THAT James Kretzler

has met the established and published Requirements for Certification by
ASNT Certification Services LLC. in the following Nondestructive Testing Method:
NDT Level III Ultrasonic Testing

186946
Certificate Number



11/01/2025
Issue Date

John J. Kretzler
ASNT Certification
Services LLC. President

10/31/2030
Expiration Date

John J. Kretzler
Certification Management
Committee Chair

All ASNT NDT Level III exams are developed and maintained in accordance with ISO/IEC 17024 guidelines for certification of persons. The following exams are currently accredited by The ANI National Accreditation Board (ANAB) - BASIC, CL, MT, PT, RT, UT, and VT. This certificate is the property of ASNT Certification Services LLC. It is not official without ASNT Certification Services LLC's logo and is subject to revocation prior to the expiration date. This certificate shall be verified on www.asntcertification.org/verify or by contacting ASNT Certification Services LLC.



ASNT CERTIFICATION SERVICES LLC.



BE IT KNOWN THAT James Kretzler

has met the established and published Requirements for Certification by
ASNT Certification Services LLC. in the following Nondestructive Testing Method:
NDT Level III Liquid Penetrant Testing

186946
Certificate Number



11/01/2025
Issue Date

John J. Kretzler
ASNT Certification
Services LLC. President

10/31/2030
Expiration Date

John J. Kretzler
Certification Management
Committee Chair

All ASNT NDT Level III exams are developed and maintained in accordance with ISO/IEC 17024 guidelines for certification of persons. The following exams are currently accredited by The ANI National Accreditation Board (ANAB) - BASIC, CL, MT, PT, RT, UT, and VT. This certificate is the property of ASNT Certification Services LLC. It is not official without ASNT Certification Services LLC's logo and is subject to revocation prior to the expiration date. This certificate shall be verified on www.asntcertification.org/verify or by contacting ASNT Certification Services LLC.



ASNT CERTIFICATION SERVICES LLC.



BE IT KNOWN THAT James Kretzler

has met the established and published Requirements for Certification by
ASNT Certification Services LLC. in the following Nondestructive Testing Method:
NDT Level III Radiographic Testing

186946
Certificate Number



11/01/2025
Issue Date

John J. Kretzler
ASNT Certification
Services LLC. President

10/31/2030
Expiration Date

John J. Kretzler
Certification Management
Committee Chair

All ASNT NDT Level III exams are developed and maintained in accordance with ISO/IEC 17024 guidelines for certification of persons. The following exams are currently accredited by The ANI National Accreditation Board (ANAB) - BASIC, CL, MT, PT, RT, UT, and VT. This certificate is the property of ASNT Certification Services LLC. It is not official without ASNT Certification Services LLC's logo and is subject to revocation prior to the expiration date. This certificate shall be verified on www.asntcertification.org/verify or by contacting ASNT Certification Services LLC.





Certifies

Robert Lanterman, PCS

Has fulfilled the requirements for recognition as an **SSPC**

PROTECTIVE COATINGS SPECIALIST

Valid Through December 31, 2027

2015-820-136
Certification Number

August 20, 2015
Original Date Issued

Executive Director AMPP

100520



The Association for Materials Protection and Performance Recognizes

Robert Lanterman

As a Certified

Senior Certified Coatings Inspector

Chief Product and Operations Officer
AMPP



Expires
May 23, 2028
Cert No.N-13505



Adam Fields
has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 06-JUN-2025

CEU (If Applicable): 0.75

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

American Traffic Safety Services Association
ATSSA.com

Certificate of Completion

presented to

Jesse Tisdale

for completing the

Traffic Engineering Analysis Process & Report Module 1

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 2.5

Jody Malone
Authorized Instructor

Don Holt
Authorized Instructor

Robt. Brumfield
Authorized instructor



Certificate of Completion

presented to

Jesse Tisdale

for completing the

Traffic Engineering Analysis Process & Report Module 3

Date: January 30, 2020
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3.5

Jody Malone
Authorized Instructor

Don Holt
Authorized Instructor

Robt. Brumfield
Authorized instructor



Certificate of Completion

presented to

Jesse Tisdale

for completing the

Traffic Engineering Analysis Process & Report Module 2

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3.5

Jody Malone
Authorized Instructor

Don Holt
Authorized Instructor

Robt. Brumfield
Authorized instructor



PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jesse Tisdale

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

4/7/2023 to 4/7/2027
Training Valid Through

Baton Rouge, LA
Location

Don H. Holt
Vice President of Education and Technical Services
Sharon Tisdale
President, CEO

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



American Traffic Safety Services Association ATSSA.com



PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Aidan Carter
has attended
Louisiana Traffic Control Supervisor
Training Course

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

Baton Rouge, LA
Location

Donna H. Clark
Vice President of Education and Technical Services

Alan T. Johnson
President, CEO

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



American Traffic Safety Services Association ATSSA.com



American Traffic Safety
Services Association

This is to affirm that

Aidan Carter
has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Issue Date 9/11/2023

Exp. Date 9/10/2027

State Issued LA

ATSSA

Instructor Name

Donna H. Clark
Instructor Signature

A1000130680

Verify at [Flagger.com](https://www.Flagger.com)



Caitlin Marks
has attended
National Flagger Certification Training Course

Completed: 14-FEB-2025

CEU (If Applicable): 0.35

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

This certificate provides proof of training, not certification.

American Traffic Safety Services Association
ATSSA.com



PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jared Blohowiak

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

2/10/2023 to 2/10/2027
Training Valid Through

Baton Rouge, LA
Location

Donna M. Clark
Vice President of Education and Technical Services

Sharon T. Johnson
President, CEO

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



American Traffic Safety Services Association ATSSA.com



American Traffic Safety
Services Association

This is to affirm that

Jared Blohowiak

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Issue Date 4/2/2023

ATSSA

Exp. Date 4/1/2027

Instructor Name

State Issued LA

Donna M. Clark
Instructor Signature

A1000124539

Verify at Flagger.com



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



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



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

Baton Rouge, LA
Location

Donna M. Clark
Vice President of Education and Technical Services

Sharon T. Johnson
President, CEO

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



American Traffic Safety Services Association ATSSA.com



Office of Conservation
Department of Energy and Natural Resources
STATE OF LOUISIANA

WATER WELL CONTRACTOR'S LICENSE

The Office of Conservation
for the Department of Energy and Natural Resources
State of Louisiana

hereby certifies that

ARDAMAN & ASSOCIATES, INC.

Casey Floyd

has been licensed to drill environmental wells and water wells under the provisions of R.S. 38:3098
and is entitled to practice in the state of Louisiana as a Water Well Contractor.

This License is non-transferable and expires June 30, 2026 unless
renewed, revoked or suspended by the licensing authority as prescribed by statute.

Signed and sealed this 29th day of May, 2025

Gavin D. Broussard

GAVIN D. BROUSSARD
ENVIRONMENTAL DIVISION ADMINISTRATOR
Office of Conservation
Louisiana Department of Energy and Natural Resources

License No. WWC- # 212



American Traffic Safety
Services Association

This is to affirm that

CASEY FLOYD

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Issue Date 6/4/2024

Debbie Purcella

Exp. Date 6/4/2028

Instructor Name

State issued LA

Debbie Purcella
Instructor Signature

V0000258342

Verify at Flagger.com





Robert Jewell
has attended
Louisiana Traffic Control Supervisor Refresher

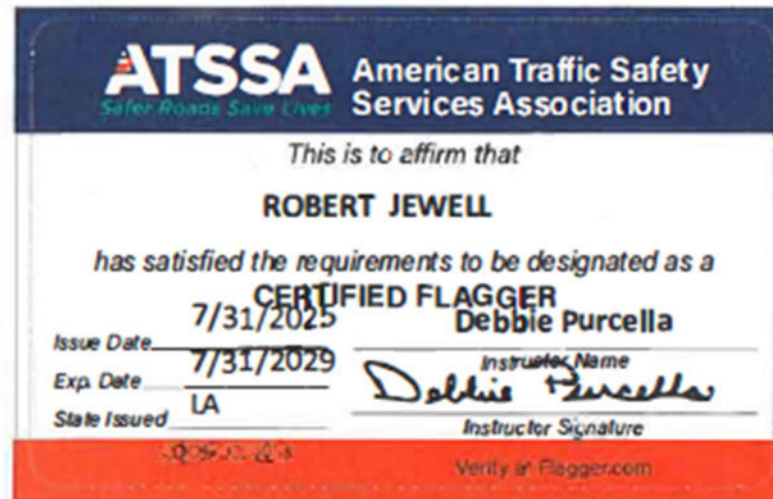
Completed: 23-AUG-2024

CEU (If Applicable): 0.75

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This certificate provides proof of training, not certification.

American Traffic Safety Services Association
ATSSA.com



State of
Louisiana
Secretary of
State



COMMERCIAL DIVISION
225.925.4704

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

Name	Type	City	Status
ARCADIS U.S., INC.	Business Corporation (Non-Louisiana)	WILMINGTON	Active

Previous Names

ARCADIS G&M, INC. (Changed: 1/4/2007)

ARCADIS GERAGHTY & MILLER, INC. (Changed: 6/12/2001)

Business: ARCADIS U.S., INC.

Charter Number: 34610353F

Registration Date: 2/5/1998

Domicile Address

222 DELAWARE AVENUE, SUITE 1110
WILMINGTON, DE 19801

Mailing Address

C/O LEGAL DEPT.
110 WEST FAYETTE ST., SUITE 300
SYRACUSE, NY 13202

Principal Business Office

630 PLAZA DR., SUITE 200
HIGHLANDS RANCH, CO 80129

Registered Office in Louisiana

3867 PLAZA TOWER DR.
BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana

6100 CORPORATE BLVD., SUITE 325
BATON ROUGE, LA 70816



Louisiana
**SECRETARY
OF STATE**
NANCY LANDRY

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Name	Type	City	Status
MOFFATT & NICHOL INC.	Business Corporation (Non-Louisiana)	LONG BEACH	Active

Previous Names

MOFFATT & NICHOL, ENGINEERS, INC. (Changed: 11/17/2003)

Business: MOFFATT & NICHOL INC.

Charter Number: 34527896F

Registration Date: 5/23/1996

Domicile Address

4225 E. CONANT STREET, SUITE 101
LONG BEACH, CA 90808

Mailing Address

4225 E. CONANT STREET, SUITE 101
LONG BEACH, CA 90808

Principal Business Office

4225 E. CONANT STREET, SUITE 101
LONG BEACH, CA 90808

Registered Office in Louisiana

3867 PLAZA TOWER DR.
BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana

301 MAIN STREET
SUITE 800
BATON ROUGE, LA 70801

Status

Status: Active

Annual Report Status: In Good Standing

Qualified: 5/23/1996

Last Report Filed: 5/8/2026

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:	5/23/1996

**State of
Louisiana
Secretary of
State**



COMMERCIAL DIVISION
225.925.4704

Fax Numbers

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

Name	Type	City	Status
LAZENBY & ASSOCIATES, INC.	Business Corporation	WEST MONROE	Active

Previous Names

HARRISON AND LAZENBY, INC. (Changed: 1/1/1995)

Business: LAZENBY & ASSOCIATES, INC.

Charter Number: 33702440D

Registration Date: 1/5/1982

Domicile Address

2000 N. SEVENTH ST.
WEST MONROE, LA 71291

Mailing Address

C/O JERRY G. LAZENBY
2000 N. SEVENTH ST.
WEST MONROE, LA 71291

Principal Office Address

2000 N. SEVENTH ST.
WEST MONROE, LA 71291

Status

Status: **Active**

Annual Report Status: **In Good Standing**

File Date: 1/5/1982

Last Report Filed: 12/8/2025

Type: Business Corporation

Registered Agent(s)

Agent:	JERRY G. LAZENBY
Address 1:	2000 N. SEVENTH ST.
City, State, Zip:	WEST MONROE, LA 71291
Appointment Date:	1/5/1982

Officer(s)

Additional Officers: No

Officer:	PAUL D. FRYER
Title:	Vice-President
Address 1:	2000 N. SEVENTH ST.
City, State, Zip:	WEST MONROE, LA 71291



Louisiana
**SECRETARY
OF STATE**
NANCY LANDRY

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Name	Type	City	Status
FORTE AND TABLADA, INC.	Business Corporation	BATON ROUGE	Active

Previous Names

Business: FORTE AND TABLADA, INC.

Charter Number: 25306090D

Registration Date: 2/8/1961

Domicile Address

9107 INTERLINE AVE.
BATON ROUGE, LA 70809

Mailing Address

9107 INTERLINE AVE.
BATON ROUGE, LA 70809

Principal Office Address

9107 INTERLINE AVE.
BATON ROUGE, LA 70809

Status

Status: Active

Annual Report Status: In Good Standing

File Date: 2/8/1961

Last Report Filed: 1/12/2026

Type: Business Corporation

Registered Agent(s)

Agent:	JUSTIN T. MANNINO
Address 1:	TAYLOR, PORTER, BROOKS & PHILLIPS, L.L.P.
Address 2:	450 LAUREL STREET, 8TH FLOOR
City, State, Zip:	BATON ROUGE, LA 70801
Appointment Date:	8/21/2020

Officer(s)

Additional Officers: No

Officer:	RUSSELL JOSEPH COCO, JR.
Title:	Director, President
Address 1:	9107 INTERLINE AVENUE
City, State, Zip:	BATON ROUGE, LA 70809

Officer:	CHAD A. BACAS
-----------------	---------------

State of
Louisiana
Secretary of
State



COMMERCIAL DIVISION
225.925.4704

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

Name	Type	City	Status
MODJESKI AND MASTERS, INC.	Business Corporation (Non-Louisiana)	NEW ORLEANS	Active
Previous Names			
Business:	MODJESKI AND MASTERS, INC.		
Charter Number:	34396692F		
Registration Date:	12/27/1991		
Domicile Address	1100 POYDRAS ST., SUITE 900 NEW ORLEANS, PA 70163		
Mailing Address	100 STERLING PARKWAY, SUITE 302 MECHANICSBURG, PA 17050		
Principal Business Office	100 STERLING PARKWAY, SUITE 302 MECHANICSBURG, PA 17050		
Registered Office in Louisiana	3867 PLAZA TOWER DR. BATON ROUGE, LA 70816		
Principal Business Establishment in Louisiana	3867 PLAZA TOWER DR. BATON ROUGE, LA 70816		
Status			
Status:	Active		
Annual Report Status:	In Good Standing		
Qualified:	12/27/1991		
Last Report Filed:	12/1/2025		
Type:	Business Corporation (Non-Louisiana)		



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Name	Type	City	Status
KTA-TATOR, INC.	Business Corporation (Non-Louisiana)	PITTSBURGH	Active

Previous Names

Business: KTA-TATOR, INC.
Charter Number: 34632147F
Registration Date: 4/29/1998

Domicile Address

145 ENTERPRISE DRIVE
PITTSBURGH, PA 152751214

Mailing Address

145 ENTERPRISE DRIVE
PITTSBURGH, PA 152751214

Principal Business Office

145 ENTERPRISE DRIVE
PITTSBURGH, PA 152751214

Registered Office in Louisiana

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

Principal Business Establishment in Louisiana

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

Status

Status: Active
Annual Report Status: In Good Standing
Qualified: 4/29/1998
Last Report Filed: 4/13/2026
Type: Business Corporation (Non-Louisiana)

Registered Agent(s)

Agent:	CORPORATION SERVICE COMPANY
Address 1:	450 LAUREL STREET, 8TH FLOOR
City, State, Zip:	BATON ROUGE, LA 70801
Appointment Date:	9/9/2014

Officer(s)

Additional Officers: No



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Name	Type	City	Status
STANLEY CONSULTANTS, INC.	Business Corporation (Non-Louisiana)	MUSCATINE	Active

Previous Names

Business: STANLEY CONSULTANTS, INC.
Charter Number: 34562879F
Registration Date: 6/12/1997

Domicile Address

225 IOWA AVE.
MUSCATINE, IA 52761

Mailing Address

225 IOWA AVE.
MUSCATINE, IA 52761

Principal Business Office

225 IOWA AVE.
MUSCATINE, IA 52761

Registered Office in Louisiana

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

Principal Business Establishment in Louisiana

700 MAIN STREET
SUITE 405
BATON ROUGE, LA 70802

Status

Status: Active
Annual Report Status: In Good Standing
Qualified: 6/12/1997
Last Report Filed: 6/9/2026
Type: Business Corporation (Non-Louisiana)



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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: 11/13/2025

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

Officer(s)**Additional Officers:** No



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Name	Type	City	Status
SURVEYING AND MAPPING, LLC	Limited Liability Company (Non-Louisiana)	AUSTIN	Active

Previous Names

SURVEYING AND MAPPING, INC. (Changed: 4/30/2014)

Business: SURVEYING AND MAPPING, LLC

Charter Number: 37054876Q

Registration Date: 5/26/2009

Domicile Address

4801 SOUTHWEST PARKWAY
BUILDING 2, SUITE 100
AUSTIN, TX 78735

Mailing Address

4801 SOUTHWEST PARKWAY
BUILDING 2, SUITE 100
AUSTIN, TX 78735

Principal Business Office

4801 SOUTHWEST PARKWAY
BUILDING 2, SUITE 100
AUSTIN, TX 78735

Registered Office in Louisiana

3867 PLAZA TOWER DR., 1ST FLOOR
BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana

3867 PLAZA TOWER DRIVE
1ST FLOOR
BATON ROUGE, LA 70816

Status

Status: Active

Annual Report Status: In Good Standing

Qualified: 5/26/2009

Last Report Filed: 5/5/2026

Type: Limited Liability Company (Non-Louisiana)

Registered Agent(s)

Agent:	INCorp SERVICES, INC.
Address 1:	3867 PLAZA TOWER DR., 1ST FLOOR
City, State, Zip:	BATON ROUGE, LA 70816

QUALITY CONTROL / QUALITY ASSURANCE

Bridge Design

IDIQ CONTRACTS FOR BRIDGE PRESERVATION SERVICES STATEWIDE

CONTRACT NOS. 4400035420, 4400035421, AND 4400035422

Prepared For



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Appendix C — QA Information Package Checklist

Appendix D — QC / QA Certification

Appendix H — Consultant Project Bridge Design Kick-Off Meeting Agenda Checklist

Appendix I — Consultant Project Submittal QA/QC Certification

Appendix J — Project Activity Log Sheet

Consultant Submittal Review Checklist

1. Introduction

This Project Quality Assurance/Quality Control Plan establishes the minimum requirements for Quality Assurance (QA) and Quality Control (QC) for bridge design tasks assigned under this contract, if authorized. It provides the project team with guidance on responsibilities and procedures for the QA/QC process.

This Quality Control Management Plan (QMP) provides an overview of the project's core quality processes and the procedures for implementing them. The general procedures outlined herein are recommended for use in all tasks, including the management of our subconsultant's work products.

This QMP is consistent with the requirements of the State of Louisiana Department of Transportation and Development (DOTD) Bridge Design and Evaluation Manual (Revision No. 9) and the FHWA/AASHTO Guidance on QC/QA in Bridge Design in Response to NTSB Recommendation (H-08-17) (August 2011) documents.

2. Project

The work in this project shall consist of providing specific services covered under an Indefinite Delivery/Indefinite Quantity (IDIQ) contract, as detailed in individual Task Orders (TOs), which will specify the TO-specific scope of services, contract time, and compensation. Arcadis will provide the following scope of engineering services.

2.1 Bridge Design Services

2.1.1 General Bridge Engineering Services

Provide bridge engineering services for fixed and movable bridges. Bridge project types may include, but are not limited to, new bridges, bridge replacements, bridge rehabilitation, bridge preventive maintenance and repair, and roadway lighting. Bridge engineering services include, but are not limited to, structural, mechanical, electrical, and architectural feasibility, design, and plan development, and the following:

- Bridge/structural inspection and evaluation of existing bridges or other structures (sign trusses, fender systems, etc.). Associated reports shall be provided as required.
- As-designed, as-built, and condition bridge ratings.
- Design peer review of developed plans or conceptual designs to verify concept, constructability, and accuracy of designs along with associated reports, conclusions, calculations, and recommendations as needed.
- Construction engineering support, including construction drawing review, shop drawing review, request for information support, contractor proposals, etc.

2.1.2 Sampling, Instrumentation, and Non-destructive Testing

Provide sampling, instrumentation, and non-destructive testing services. These services may include, but are not limited to, the collection of samples of materials from existing structures for evaluation, diagnostic and/or proof testing to determine specific structure response characteristics and/or to determine the causation of observed distresses, instrumentation, and the following:

Sampling

- Collection of samples.
- Evaluation of protective coating material samples for determination of compatibility with proposed coatings, analysis for heavy metals, proper procedures for treatment, handling, disposal of waste, etc.

Instrumentation

- Design of instrumentation plans. Installation of instrumentation, data acquisition, analysis, and evaluation of the structure in accordance with the instrumentation plan.
- Provision and installation of instrumentation, including all materials required to mount the instrumentation.
- Provision of data acquisition systems, software updates, power supplies, communication to data servers, data hosting services, maintenance, and data access to DOTD.
- Calibration services for instrumentation systems and sensors.
- Maintenance services to repair and/or replace sensors, data acquisition systems, and power supplies.
- Analysis and evaluation of accumulated data and final assessments and development of corresponding reports based on data and associated calculations.

Non-destructive Testing

- Proof loading.
- Estimation of concrete strength.
- Assessment of reinforcement condition, cover, location, and diameter.
- Detection of cracks, voids, and delamination in concrete.
- Assessment of steel member condition.

2.2 Geotechnical Services

- Provide all geotechnical services necessary to perform geotechnical investigations, analysis, and design. These services may include, but are not limited to, the following:
- Geotechnical field investigations include both shallow and deep soil boring.
- Geotechnical laboratory testing and analysis.
- Preparation of boring soil logs.
- Geotechnical analysis and design based on obtained data or data furnished by DOTD.
- Construction-related engineering services.

2.3 Road Design and Traffic Services

- Provide all services necessary to perform hydraulic, road, and traffic investigation, analysis, and design. These services may include, but are not limited to, the following:
- Preliminary and final roadway design and plan development.
- Hydraulic analysis and design.
- Traffic engineering, traffic control design, and data collection.
- Transportation Management Plan (TMP) development.

2.4 Surveying and Title Work Services

- Provide all surveying and title work services necessary to perform topographic and boundary surveying, develop right-of-way maps, and provide other existing site data. These services may include, but are not limited to, the following:

- Topographic surveying, 3D laser scanning, and underwater acoustical imaging, including both multi-beam and side scan hydrographic surveys.
- Property and boundary surveying.
- Property title work, including title research and reports.
- Construction-related surveying services.

2.5 Bridge Inspection Services

- Provide all services required to perform Statewide NBIS In-Depth Inspections of complex structures. These services may include, but are not limited to, the following:
- Detailed in-depth field inspection on all bridge components, including an element-level inspection. An NBIS underwater bridge inspection may be required for submerged elements.
- Assessment of the coating system, conducted by a certified SSPC Protective Coating Specialist or a certified NACE Bridge Coating Inspector.
- In-depth inspection report outlining recommended repairs, rehabilitation, and corrections.

2.6 Environmental and Permitting Services

- Provide all environmental and permitting services necessary to obtain State, Federal, and local approvals, including project permits. Required permits may include, but are not limited to, the following:
- Coastal Use permits (CUP) from the LA Department of Natural Resources.
- Wetland permits (404 and Nationwide) and Section 10 permits from the US Army Corps of Engineers.
- Water Quality Certification from the LA Department of Environmental Quality.
- Scenic Stream permits from the LA Department of Wildlife and Fisheries.
- Bridge permits from the US Coast Guard.
- Levee permits from various levee boards.
- All work shall be performed in accordance with all applicable DOTD policies, procedures, and manuals. Design criteria shall be developed and submitted to the Bridge Task Manager for review and approval before proceeding with design.
- Project submittals, associated schedule, and format shall be established in each Task Order. At a minimum, all bridge plan submittals shall be submitted in PDF format, and the 100% signed final plans shall be submitted both in full-size paper and in PDF format. Design and rating calculations shall be submitted in PDF format no later than 30 days after the 100% final plan submittal.
- Unless waived by the Task Order Project Manager, ProjectWise shall be utilized for all PDF submittals, and electronic plan delivery will be required. See the following website for details on electronic plan delivery:

<https://www.dotd.louisiana.gov/media/ip5corrw/ladotd-software-standards-for-electronic-plans.pdf>

3. QC/QA POLICY

1. Arcadis Team QC/QA policy is to meet or exceed the QC/QA requirements of the

following documents, in addition to those described in this document.

2. AASHTO Standards — The American Association of State Highway Transportation Officials
3. AASHTO Highway Safety Manual
4. AASHTO — A Policy on Geometric Design of Highways and Streets
5. ASTM Standards
6. CyberSecurity Training
7. DOTD — Bridge Design and Evaluation Manual (BDEM)
8. DOTD — Complete Streets
9. DOTD — Construction Contract Administration Manual
10. DOTD — Consultant Contract Services Manual
11. DOTD — Hydraulics Manual
12. DOTD — Location and Survey Manual — REVISED OCTOBER 2023
13. DOTD — Addendum “A” to the Location & Survey Manual
14. DOTD — Louisiana Standard Specifications for Roads and Bridges
15. DOTD — Materials Sampling Manual
16. DOTD — Minimum Design Guidelines
17. DOTD — Off-System Highway Bridge Program Guidelines
18. DOTD — Pavement PRR Min Design Guidelines
19. DOTD — Roadway Design Procedures and Details Manual
20. DOTD — Stage 1 Planning/Environmental Manual of Standard Practice
21. DOTD — Testing Procedures Manual
22. DOTD — Traffic Engineering Manual
23. DOTD — Traffic Engineering Process and Report
24. DOTD — Traffic Signal Manual
25. e-CFR — Electronic Code of Federal Regulations (all applicable)
26. FHWA — Bridge Inspector's Reference Manual (BIRM)
27. FHWA — Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD)
28. National Electrical Safety Code (NESC)
29. LTRC — Local Public Agency Qualification Program: Construction, Engineering, and Inspection course
30. NFPA 70 — National Electrical Code (NEC)

31. NEPA — National Environmental Policy Act
32. AASHTO LRFD Bridge Design Specifications
33. AASHTO LRFD Moveable Highway Bridge Design Specifications
34. AASHTO Manual for Bridge Evaluation
35. AASHTO Manual for Maintenance Inspection for Bridges
36. AASHTO Roadside Design Guide
37. AASHTO Standard Specifications for Structural Supports of Highway Signs, Luminaires, and Traffic Signals
38. AASHTO Standard Specifications for Transportation Materials and Methods of Sampling and Testing
39. AREMA Manual for Railway Engineering
40. CFR 23 National Bridge Inspection Standard
41. DOTD "A Guide to Constructing, Operating, and Maintaining Highway Lighting Systems"
42. DOTD Bridge Design Technical Memoranda
43. DOTD Environmental Impact Procedures (Vols. I-III)
44. DOTD Geotechnical Engineering Services Document
45. DOTD Guidelines for Bridge Rating and Evaluation
46. DOTD Maintenance Directives
47. FHWA Inspection of Fracture-Critical Bridge Members
48. FHWA-IF-09-014 Load Rating Guidance and Examples for Bolted and Riveted Gusset Plates in Truss Bridges, February 2009

QC/QA requirements for bridge design and preparation of plans and specifications are described in detail in the LADOTD Bridge Design and Evaluation Manual and the LADOTD Bridge Design Section QC/QA, and these policies will be fully adhered to by all team members. This document consists of and complements the LADOTD Bridge Design and Evaluation Manual and the LADOTD Bridge Design Section QC/QA.

4. Definition of Terms and Positions

QC: Procedure for checking the accuracy and consistency of the calculations and the drawings, detecting and correcting design omissions and errors before the design plans are finalized, and verifying that the specifications for load-carrying members are adequate for the service and operation loads.

QA: Procedure for reviewing the work to ensure the QC procedures are in place and effective in preventing mistakes, and consistency in the development of bridge design plans and specifications.

Designer: The engineer is directly responsible for developing design calculations, drawings, special provisions, and cost estimates. The designer must be either a licensed professional engineer or an engineer intern.

Checker: An engineer responsible for performing a full technical review of the design calculations, special provisions, drawings, and cost estimates. Must be either a licensed professional engineer or an engineer intern; however, if the designer is an engineer intern, the design checker must be a professional engineer.

Design Back-Checker: Typically, the designer. If the designer is unavailable, the design back-checker must coordinate with the checker to ensure all noted changes are agreed to. The design back checker must be either a licensed professional engineer or an engineer intern; however, if the checker is an engineer intern, the design back-checker must be a professional engineer.

Detail Back-Checker: Engineer responsible for performing a full review of the drawings. Must be either a licensed professional engineer or an engineer intern; however, if the checker is an engineer intern, the detail back-checker must be a professional engineer.

Updater: Individual responsible for updating the design calculations or plans to reflect all agreed-upon changes. (For design calculations, typically the designer; for plans, typically the detailer.)

Verifier: Individual (usually the checker) responsible for verifying that all changes or additions to a drawing, calculation, report, or graphic element have been accurately incorporated.

Reviewer: Engineer responsible for ensuring that the QC process has been followed as outlined.

Detailer: An individual responsible for preparing drawings.

Supervisor or Team Leader: Project manager or task assignee responsible for overseeing the project and staff on the project.

Engineer of Record (EOR): The engineer responsible for supervision and/or preparation of plans, sealing calculations, plans, and special provisions if required.

Quality Project Manager (QPM)/Quality Task Manager (QTM): An individual responsible for conducting audits and ensuring QC plans are adhered to. The QPM is responsible for the entire project and all aspects of it, and the QTM is responsible for each task.

Independent Technical Reviewer: An engineer who completes an independent review of the drawings and/or calculations. An independent technical reviewer is part of the consultant team but not the design team. The engineer must have experience reviewing tasks that meet or exceed those of the designer and/ or checker.

Peer Review: An independent engineering entity with no prior involvement in the project either checks the designs by producing an independent set of calculations based on the drawings or reviews as specified in the scope of work. The same consultant may not serve as the designer or design checker. Peer reviews are typically performed between the 60% and 98% final plan stage, depending on the scope of the review.

Audit: A systematic, independent, and documented activity performed to verify that applicable elements of the OMP have been effectively implemented and documented in

accordance with the specific requirements.

Constructability Review: A design review performed by the contractor or appropriate construction services personnel to assess the feasibility of the proposed design from a construction perspective.

Design Criteria: A set of project-specific parameters that define the design requirements, specifications, and functional classifications of the project.

Inter-Discipline Review: A discipline-specific design review of a design package by all applicable design disciplines.

Quality Records: A completed document or record-keeping evidence of successful implementation of any given aspect of the QMP.

5. Responsibility and Authority

Arcadis U.S., Inc. (Arcadis), as a Prime Consultant, is fully responsible for the QA/QC of its work and the work of its sub-consultants. All project submittals will include a QC/QA certification confirming compliance with the QC/QA plan requirements. The LADOTD shall not perform QC/QA of the consultant's work, and the responsibilities of the LADOTD for consultant projects shall be limited to those listed in the LADOTD Bridge Design and Evaluation Manual.

The principal-In-Charge (PIC) and Project Manager (PM) assigned to the Retainer will be responsible for ensuring that all members of the Arcadis Team meet the requirements of this QC/QA Plan. Arcadis will be assisted by one (1) sub-consultant for this work:

SDR	Bridge, load rating, NDT
M&M	Movable Bridges, mechanical, electric
Stanley Consultants, Inc	Roadway Design, Street light
KTA-Tator	Sampling - NDT and Corrosion
Moffatt & Nichol	Bridge, Load rating, Inspection
Lazenby	Surveying and Title Work
SAM	Surveying and Title Work
Ardaman	Geotechnical
Fort & Tablada	Bridge Inspection

Principal-In-Charge (PIC), in consultation with the Project Manager (PM), will assign a Supervisor/Team Leader, Design Engineer, Detailer, Design Checker, and Reviewer to each task order, with technical skills and experience commensurate with the complexity of the structures included.

Sub-consultants are required to follow the same QC/QA Plan. Arcadis will assist the Sub-consultants with their QC/QA activities by:

- Meeting with each Sub-consultant to go over this QC/QA Plan and its implementation
- Conducting technical meetings
- Providing and coordinating technical assistance
- Providing training materials
- Developing checklists and standard forms specific to each task order
- Performing quality audits

6. QC/QA Process Controls

6.1 Project Initiation

During the initial identification and proposal phase of each task order, the Principal-in-Charge (PIC) and Project Manager (PM) determine the personnel that will be assigned to the project and their responsibilities. When possible, these individuals will participate in the initial conceptualization of the project and manpower estimating, as these initial activities identify the path to project completion. Design tasks shall be assigned to engineers qualified by virtue of education and/or experience commensurate with the complexity of the subject project.

At the outset of the project, the PM will prepare a project schedule indicating the major milestones and deliverable dates and, if required, submit it to the LADOTD for approval.

The staff assigned to the project will include an appropriate Supervisor/Team Leader, Design Engineer, Detailer, Design Checker, Detail Checker, and Reviewer. Additional senior staff with relevant project experience will be assigned where appropriate. As additional staff join the project, they will have a designated mentor among the senior staff to serve as the first point of contact for advice and counsel on technical and administrative matters. The technical scope of work contained in the Agreement will be made available to all individuals working on the project.

6.2 Design Criteria

The PM will develop design criteria specific to each project before initiating the design process and submit them to the LADOTD for review and approval. Any design assumptions made or design exceptions obtained will be listed in the design criteria and referenced in the design calculations and drawings as appropriate. A design criteria checklist, as developed by LADOTD, is included in Appendix A.

6.3 Design Development and Plan Details

Before design efforts are initiated, proposed design criteria for roadway and bridge structures shall be reviewed and approved by the DOTD. Approval will be memorialized in a memorandum. Any changes to the design criteria will be reflected in a revised version that conforms to the expectations in DOTD Policy on Quality Control and Quality Assurance (DOTD Policy), Appendix A. Any changes will be distributed to team members via the Project Manager. The designer will maintain the calculations used in the design process and ensure they are consistent with the DOTD calculation book checklist in

Appendix B of the DOTD Policy. Key meeting decisions and communicated information will be memorialized in the meeting records and circulated via email to the design team.

Both the designer and the detailer are responsible for conducting an initial self-check of their respective work products. They and other support staff preparing deliverables will be required to affix their name at “prepared by” to denote responsibility on the Arcadis QC/QA Acknowledgment Form.

6.4 Communication

All project team communication will flow through the PM or his/her team leader designee. This includes all communication with the LADOTD and Sub-consultants.

The methods of communication to be used, listed in order of decreasing preference, include face-to-face (not feasible in many cases), telephone, e-mail, express mail, and regular mail.

6.5 Health and Safety

All field activities will be conducted by certified inspectors and will be supervised by a Registered Professional Engineer. Arcadis will create a health and safety plan which includes the following :

- Site Map and coordinates
- Identify local emergency services prior to the start of field work
- Health and safety gear and equipment
- Tailgating review, inspection and field safety requirements of the client, prior to the start of work,
- Identify environmental hazards
- Verify that safety equipment is being properly used, and
- Supervise any accident reporting that may be necessary.

7. QC Team

Quality Control (QC) activities involve checking the accuracy and consistency of materials developed for the contract. Arcadis and its sub-consultants are fully responsible for all QC of deliverables. DOTD is not responsible for the quality of any contract deliverables. Ms. Kasmire of Arcadis will check all bridge and structural design deliverables. Ms. Kasmire has extensive experience in structural design and in preparing plans and specifications for a wide variety of bridges nationwide. Her qualifications are clearly summarized in the attached 24-102 form. She will also lead the QC effort to ensure compliance with the DOTD bridge design guidelines. As a design checker, she will perform a full technical review of the design calculations, plan and profile drawings, and cost estimate. She will also ensure that the plans reflect the most current information shown in the design criteria. Henning von Mantey of Arcadis will serve as the Quality Manager and provide independent oversight of the project's quality program to help ensure that the established QA/QC procedures are consistently implemented across all disciplines and deliverables, that

milestone reviews are completed, and that review comments are tracked and resolved in a timely manner.

8. QC Review

Based on Arcadis' practice and established workflow on previous DOTD projects, it is recommended that the review be initiated and completed at the end of each design stage. Individual components of the design, carried out throughout the project, shall undergo QC review before being transmitted or presented to DOTD. A color-coding procedure will be used on plans, calculations, and report work products to document responsibility and work-checking, back-checking, comment incorporation, and change verification. The Arcadis Mobility Bridge Group color codes will be implemented for this entire project, which is explained below:

9. QA Information Package

Upon satisfactory completion of the design and detail checks, the designer must prepare the QA Information Package using the DOTD-approved checklist (Appendix C of the DOTD Policy). This package includes the following items:

- QA information package checklist;
- Calculation book;
- Plans;
- Special provisions including Non-Standard items;
- Cost estimates; and
- Relevant documents, such as checklists, review comments, etc., were used by the designer, design checker, detailer, and detail checker.

The designer is responsible for providing this package to the Reviewer for his use before the submittal milestones. Should there be any revisions to the plans or calculations after this submittal, the designer shall revise the QA Information. Package the changes and inform the Reviewer of them, providing him with the revised information.

10. Quality Assurance (QA) Process

The Reviewer for Arcadis will perform a cursory review of all documents in the QA information package, focusing on the following items:

- Constructability of the Plan Details
- Areas of Critical Importance
- Areas where mistakes are typically found
- Areas that are new to the design practice

After all issues discovered during the QA process are rectified, the design calculations, plan details, special provisions, and cost estimates shall be considered as final, and the QC/QA certification shall be signed by the designer, design checker, detailer, detail checker, and reviewer.

11. Sub-Consultants

The Sub-consultants for a given task order and their general responsibilities under the

contract are to be listed in Attachment 4 of this document.

Upon receipt of Notice-To-Proceed from LADOTD, the PM will provide and confirm with each Sub-consultant the scope of services and upper budget limit for the work. Invoicing procedures will be provided to expedite billing.

Each Sub-consultant will be asked to provide monthly status reports that include a summary of progress to date, any issues encountered with its work during the period, any decisions or information from Arcadis that are delaying completion of its work, and the anticipated work for the next reporting period. Each Sub-consultant will be asked to provide interim results of their work so that Arcadis can assess the information completed to date and either confirm that the task is being completed as scoped or make the necessary adjustments to ensure that the work is being performed as scoped. All results provided by the Sub-consultants will be reviewed by the appropriate Arcadis staff prior to the information being used for the preparation of deliverables to the LADOTD.

Internal team meetings will be held on a routine basis, and may or may not include all Team members, depending on the major tasks underway at that point in the schedule. Meeting minutes will be recorded and distributed by Arcadis to the Sub-consultants as deemed appropriate.

Information provided by the LADOTD will be assessed by Arcadis and, as necessary, forwarded to the Sub-consultant for information and action.

12. Peer Review

When requested by the LADOTD Bridge Design Engineer Administrator, Arcadis will conduct peer reviews by team members or engage a Sub-consultant licensed by the State of Louisiana as a professional engineer to perform a peer review. The Sub-consultant chosen for the peer review will have no prior involvement in the project but will have substantial experience in designing similar structures. All peer review comments will be submitted to the LADOTD and the design team for evaluation and resolution. All resolutions agreed upon by the designer, peer reviewer, and LADOTD will be incorporated into the final design.

13. Construction Support Phase

All design activities in the construction support phase will also adhere to the requirements and policies described in this document. These activities include, but are not limited to, the following:

- Responding to Requests for Information (RFI)
- Reviewing Shop Drawings
- Development of Plan Changes/Change Orders

14. Archiving Design Files

The PM or his designee shall be responsible for transmitting all deliverables to DOTD. All deliverables will be transmitted via DOTD ProjectWise or another file transfer system if requested by DOTD. The PM will maintain digital files of all final deliverables on a SharePoint cloud-based server. Paper copies of these materials will also be maintained by the Project Manager in the project files repository and moved to off-site archives in

accordance with DOTD's document retention policy and Arcadis' retention policies, as appropriate. Retained files will include final, approved deliverables, calculation books, plans, special provisions, cost estimates, and other pertinent documents in accordance with the Bridge Design Section records retention policy, as well as contract documentation, QC/QA records, correspondence, and other materials per Arcadis' records retention policy.

15. Deliverables

A deliverables schedule will be developed at the Consultant Project Kick-Off Meeting in accordance with other actions listed in the Consultant Project Kick-Off Meeting Agenda Checklist (Appendix H) of the DOTD Policy. This schedule will be reviewed regularly by the Project Manager, Akhil Chauhan, for opportunities to reduce activity durations and expedite delivery.

Deliverables, schedules, quality reviews, financials, and other topics are addressed monthly during a Monthly Project Progress Review Meeting between Arcadis Project Managers and Operations Managers near the monthly financial close period. An internal consultant QC milestone schedule will also be developed in association with this delivery schedule. The Project Manager will maintain it for the consultant team's review and scheduling. Deliverables will be internally reviewed for correctness and completeness before DOTD submittal and will be accompanied by a Consultant Submittal (QC/QA) Certification form (Appendix I of the DOTD Policy).

16. QC/QA Certificate

After the Reviewer completes the QA process, for each project, the QC/QA certificate (Appendix D of the DOTD Policy) shall be signed and submitted along with the Certification Form (LADOTD BDEM Chapter 3, Appendix I)

APPENDICES

DOTD POLICY ON QUALITY CONTROL AND QUALITY ASSURANCE



Design Criteria Checklist

(Appendix A of DOTD Policy on Quality Control and Quality Assurance)

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

Cover sheet

The following information must be included on the cover sheet:

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

Governing Design and Construction Specifications and Other References

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

Design Assumptions and Design Exceptions

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

General Information

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

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

Hydraulic Design Criteria

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

Design Factors

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

Design Loads

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

Limit States

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

Bridge Barrier

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

Guardrail

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

Approach Slab

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

Deck and Deck Drainage

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

Bearing

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

Joint

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

Superstructure

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

Substructure

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

Piles and Drilled Shafts

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

Geotechnical Design

All geotechnical design criteria shall be included in this section and the information shall be provided by the Geotechnical Engineer. Standard plans and special details should be listed if they are utilized.

Mechanical Design

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

Electrical/Lighting Design

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

As-Designed Bridge Rating Criteria

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

Software

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

Final Calculation Book Checklist

(Appendix B of DOTD Policy on Quality Control and Quality Assurance)

The final calculation book for each project shall include, but not limited to, the following sections:

_____ **Cover Sheet**

The following information must be included on the cover sheet:

- DOTD project number
- Project name
- The title of "Final Calculation Book."
- The EOR's seal with signature and date

_____ **Final Calculation Book Check List**

_____ **QC/QA Certifications**

_____ **Peer Review Resolution Agreement (if peer review is performed)**

_____ **Design Criteria**

_____ **Final Hydraulic Analysis Report from Hydraulic Engineer**

_____ **Final Geotechnical Analysis Report from Geotechnical Engineer**

_____ **Superstructure Design Calculations**

_____ **Substructure Design Calculations**

_____ **Quantity Calculations**

_____ **Special Provisions/NS-Items**

_____ **Construction Cost Estimate**

_____ **As-Designed Rating Report**

_____ **List of All Final Electronic Design Files and File Locations (ProjectWise directory name)**

Final calculation book shall be submitted to DOTD on a CD or Flash Drive or placed to a designated ProjectWise folder including the following information:

_____ **A PDF File of the Calculation Book**

_____ **All Electronic Design Files**

_____ **A PDF File of the As-Designed Rating Report Only**

QA Information Package Checklist
(Appendix C of DOTD Policy on Quality Control and Quality Assurance)

Project No.:

Project Name:

Project Description:

_____ **Calculation Book**

_____ **Plans**

_____ **Special Provisions**

_____ **Cost Estimate**

_____ **Other Documents:** _____

QC/QA Certification

(Appendix D of DOTD Policy on Quality Control and Quality Assurance)

Project No.:

Project Name:

Project Description:

We, the undersigned designers, detailers, checkers, and reviewers for this project, have reviewed and accepted the calculations, plans, quantities, special provisions, and cost estimate prepared for this project. We certify that the work for which we are responsible has been completed in accordance with the DOTD Bridge Design Section Policy on QC/QA.

Team Members	Name	Responsible Plan Sheets	Responsible Special Provisions	Signature

Consultant Project Bridge Design Kick-Off Meeting Agenda Checklist

(Appendix H of DOTD Policy on Quality Control and Quality Assurance)

A kick-off meeting with the Consultant's bridge design team shall be initiated by the DOTD Bridge Design Task Manager once the project is awarded. The meeting agenda shall include, but not limited to, the following items:

_____ **Introduce the DOTD Bridge Task Manager and the Consultant's Key Team Members**

(The EOR and Key Designers/Design Checker/Reviewer).

_____ **Discuss Consultant's Staffing Plan and Implementation of QC/QA Plan Document**

(The staffing plan should include names and responsibilities of the designers, detailers, checkers, reviewers, and the EOR.)

_____ **Determine Schedules for Project Submittals**

(Design Criteria, TS&L, 30%, 60%, 90%, 100% of Preliminary Plans and Final Plans, Final Calculations, etc.)

_____ **Share Expectations and Consultant Rating Criteria**

(Consultant rating will be performed for all project submittals shown on the project submittal schedule.)

_____ **Discuss Design Criteria**

_____ **Discuss Budget, Supplemental Requests, Invoices, and Importance of Avoiding Claims**

(Staff shown on invoices will be reviewed in accordance with the staffing plan.)

Consultant Submittal QC/QA Certification
(Appendix I of DOTD Policy on Quality Control and Quality Assurance)

Project No.:

Project Name:

Project Description:

We, the Engineers of Record for this project, certify that the information included in this submittal has been prepared in accordance with the QC/QA plan documents and the information presented is accurate and meets the requirements of this submittal.

Submittal Description		
Engineer of Record (Bridge Design)	Signature	Date
Engineer of Record (Roadway Design)	Signature	Date

Project Activity Log Sheet

(Appendix J of DOTD Policy on Quality Control and Quality Assurance)

Project No.:

Project Name:

Bridge Task Manager:

Date	Project Activity	Comments

Consultant Submittal Review Checklist

Items	Design Criteria	TS&L	30% PP	60% PP	90% PP	100% PP	30% FP	60% FP	90% FP	100% FP	Final Calculation Book	Plan Revisions	Change Orders
Consultant Submittal QC/QA Certification													
Design Criteria	C												
TS&L		C											
Bridge Index			D	D	D	D	D	D	C	S			
General Notes			D	D	D	D	D	D	C	S			
Summary of Estimated Quantities			D	D	C	C	D	D	C	S			
General Plans			D	D	C	C	C	C	C	S			
Typical Sections			D	D	C	C							
Super elevation Diagram				D	D	C	C	C	C	S			
Construction Phasing Details				D	D	C	C	C	C	S			
Traffic Control Details				D	D	C	C	C	C	S			
Foundation/Pile Layout				D	D	C	C	C	C	S			
Pile Loads/Details					D	D	D	C	C	S			
Pile Data Table							D	D	C	S			
Bent Details							D	D	C	S			
Fender Details							D	D	C	S			
Girder Details							D	D	C	S			
Span Details							D	D	C	S			
Joint Details								D	C	S			
Bearing Details								D	C	S			
Approach Slab								D	C	S			

Items	Design Criteria	TS&L	30% PP	60% PP	90% PP	100% PP	30% FP	60% FP	90% FP	100% FP	Final Calculation Book	Plan Revisions	Change Orders
Guardrail Details								D	C	S			
Bridge Barrier/Railing Details								D	C	S			
Detour Bridge Details								D	C	S			
Revetment Details								D	C	S			
Signing/Lighting Details								D	C	S			
Year Plate								D	C	S			
Rebar Support								D	C	S			
Misc. Details								D	C	S			
Electrical Details								D	C	S			
As-built Plans								D	C	C			
Special Provisions							D	D	C	C			
NS-Items							D	D	C	C			
Cost Estimate					D	D	D	D	C	C			
Final Calculations											S		
Revised Plans/Calculations												S	S

LEGEND:

“R” = the item is required and shall be included in the submittal

“C”= the item shall be complete and shall be included in the submittal

“D”= the item shall be in development and shall be included in the submittal

“S”= the item is stamped by the EOR and shall be included in the submittal

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
SDR ENGINEERING, INC	2820 Continental Drive Ste. 100, Baton Rouge, LA 70808	Mohsen Shahawy, PhD, PE Shahawy@sdregnineering.com	850 222 2737
MOFFATT & NICHOL INC.	301 Main Street, Suite 800 Baton Rouge, LA 70801	Chace Hulon, PE chulon@moffattnichol.com	225 610 1932
LAZENBY & ASSOCIATES, INC.	2000 North 7th Street West Monroe, LA 71291	Paul D. Fryer, PE,PLS pfryer@lazenbyengr.com	318 387 2710
FORTE AND TABLADA, INC.	9107 Interline Avenue Baton Rouge, LA 70809	Russell J. "Joey" Coco, Jr., PE jcoco@forteandtablada.com	225 927 9321
MODJESKI AND MASTERS, INC.	1100 Poydras Street, Suite 900, New Orleans, LA 70163	Cullen Ledet, PE, Vice President CJLedet@modjeski.com	504 524 4344
KTA-TATOR, INC.	145 Enterprise Drive Pittsburgh, PA 15275	Robert S. Lanterman rlanterman@kta.com	412 303 9407
STANLEY CONSULTANTS, INC.	700 Main Street Suite 405, Baton Rouge, LA 70802	Blake Roussel, PE, PMP RousselBlake@stanleygroup.com	225 388 4211
ARDAMAN & ASSOCIATES, INC.	316 Highlandia Drive, Baton Rouge, LA 70810	Robert E. Jewell, PE RJewell@ardaman.com	225 666 4598
SURVEYING AND MAPPING, LLC (formerly SJB Group)	3867 Plaza Tower Dr., 1st Floor, Baton Rouge, La 70816	Matthew Estopinal Matt.Estopinal@SJBGroup.com	225 769 3400



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