AECOM

PROPOSAL FOR

IDIQ CONTRACT FOR IN-DEPTH BRIDGE INSPECTION STATEWIDE

CONTRACT NOS. 4400029683, 4400029684, AND 4400029685

2017 In-depth Inspection of the Morgan City Bridge

Louisiana Department of Transportation and Development August 8, 2024

Delivering a better world

AECOM

AECOM
8555 United Plaza Blvd., Suite 300
Baton Rouge, LA 70809
aecom.com

Louisiana Department of Transportation and Development (LADOTD)
Attn.: Mr. Mark Chenevert, Consultant Contract Services Administrator
1201 Capitol Access Road, Room 405-E
Baton Rouge, LA 70802

August 8, 2024

Ref: Contract Nos. 4400029683, 4400029684, and 4400029685 • IDIQ Contract For In-Depth Bridge Inspection Statewide

Dear, Mr. Chenevert and Members of the Project Evaluation Team:

The LADOTD complex bridge inventory includes some of most challenging group of bridges throughout the U.S. based on the complexity of their details, inspection access required, and traffic control. The AECOM Team is ready to meet the challenges associated with providing quality NBIS bridge inspections services for the DOTD on their complex bridge inventory based on our experience on our previous DOTD Contract No. 44-2687 and our strong resume of similar long span, complex cable stayed, suspension, truss, and movable bridges.

Our approach echoes the DOTD's inspection needs. We will provide a fresh set of eyes to these critical DOTD assets and address the active maintenance issues through the upcoming inspections which is an important part of maintaining a healthy NBIS program and avoiding complacency. We fully understand the significance and requirements associated with this program and have committed our best talent to ensure the DOTD is compliant with the FHWA 23 metrics. In addition, we are excited to partner with the DOTD with transitioning their bridge inventory to the Specifications for the National Bridge Inventory (SNBI), where we are already working with other DOT's in their transition to SNBI. **We pledge to apply the same energy, enthusiasm, focus on details, and attention to the schedule and budget as previously demonstrated.**

THE AECOM TEAM: We have assembled a strong team of subconsultants to partner with us in the delivery of the project goals. Each of these firms have been specifically selected for their unique experience and expertise with performing their services, specifically for the DOTD. In addition, each of these firms has successfully teamed with AECOM on past projects.

- **Huval and Associates, Inc.:** Bridge inspection, movable bridge inspection, load rating analysis and rehabilitation design
- **CONSOR Engineers, LLC:** Bridge inspection, and underwater inspection and imaging
- **KPFF, Inc.:** Cable stay bridge nondestructive testing
- **KTA Tator, Inc.:** Coating inspection and nondestructive testing
- **T. Baker Smith, LLC:** Surveying
- **Vectura Consulting Services, LLC (DBE):** Traffic
- **Gotech (DBE):** Surveying

AECOM is committed to meeting the 2% DBE goal assigned to this project. In addition, we will continue to be supported by CEC, Inc., to assist with executing the on-site traffic control lane closures and safety boat services when needed.

LEADERSHIP: As the Project Manager, I will lead our team and be the point of contact for this contract. I currently serve as AECOM's North America Practice Leader for Bridge Inspections, and I am a Certified Bridge Inspector with more than 32 years of bridge experience. I am a licensed professional engineer and I have an extensive resume primarily focused on performing and managing bridge inspection projects, including our previous DOTD IDIQ for statewide in-depth bridge inspection services (Contract No. 44-2687) where we successfully delivered in-depth inspection of ten complex bridges, deck condition evaluations of two bridges, and bridge rehabilitation of one complex bridge. In addition, I currently serve as the project manager on AECOM's current DOTD IDIQ for Bridge

Load Rating Services (Contract No. 44-21593). My career resume serves as the foundation of my understanding of delivering the technical work through quality inspection services to meet the DOTD's goals, requirements, and procedures. I pledge to continue to partner with DOTD, and specifically with DOTD project manager Stephanie Doolittle, maintaining the same level of communication and commitment to quality.

STAFF EXPERIENCE: Our understanding of the unique demands associated with this IDIQ Contract for Statewide In-Depth Bridge Inspection Services resulted in our assignment of a core group of staff members beyond the required MPRs requested and provided in Section 15 who have the necessary certifications and experience to deliver the project scope of work. **The AECOM team has the properly trained and experienced bridge engineers and inspectors needed to deliver project-specific bridge inspections, detailed reports, and recommendations.**

The strength of the AECOM Team is our bridge inspection team leaders. All team leaders exceed the required credentials for NBIS and the DOTD, and they have current and relevant experience in routine, in-depth, element level, SNBI, and NSTM bridge inspections that are a necessity for this project. Additional credentials for each include a commitment to the NBIS training program including refresher courses and the FHWA's Fracture Critical Member Inspection Training Course. **AECOM's bridge inspection program is comprised of more than 100 certified bridge inspectors.** In addition, our organizational chart identifies bridge inspection professionals to meet all potential demands associated with the in-depth inspection of the DOTD's complex bridge inventory including nondestructive testing, protective coating assessments, mechanical and electrical inspection of movable bridges, SPRAT certified rope access inspections, underwater inspections, load rating analysis and emergency rehabilitation/repair design services. The core of our proposed team has been actively performing in-depth bridge inspection services throughout the US which allows our team to bring important best practices associated with the DOTD complex bridge inventory.

UNPARALLELED QUALITY AND SAFETY MANAGEMENT: AECOM's proven quality and safety management programs provides a framework for the delivery of safe, quality bridge inspection services on time and within budget. Our ISO 9001-2015 certified Quality Management System exceeds the requirements of the DOTD Bridge QC/QA policy.

The AECOM Team is ready to begin work now and ready to meet the contract challenges. If you have any questions or require additional information, please do not hesitate to contact me by telephone at 267.718.1023 or by email at brett.canimore@aecom.com.

Yours sincerely,

AECOM Technical Services, Inc.

> ***"AECOM's service on our inspection program is reflected in the consultant Performance Evaluation completed last year which shows a rating of 4.8 on a scale up to 5. This is above the statewide average for firms in this bridge category"***
>
> Haylye Brown, DOTD Bridge Maintenance Project Manager

Brett Canimore
Vice President and Practice Leader
Bridge Inspections
267.718.1023 • brett.canimore@aecom.com

Jonathan McDowell, PE
Associate Vice President and Business Unit Leader
504.450.9904 • jonathan.mcdowell@aecom.com

Sections 1-11

Greater New Orleans Bridge #1 Inspection, New Orleans, LA

AECOM performed an in-depth bridge inspection for LADOTD of this 3,019-ft, three-span, continuous, cantilever, riveted through truss structure. Work included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details, and assessment of the paint coating system by a certified NACE Level 3 Bridge Coating Inspector.

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DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1. Contract Name as shown in the advertisement	IDIQ CONTRACT FOR IN-DEPTH BRIDGE INSPECTION STATEWIDE
2. Contract Number(s) as shown in the advertisement	Contract Nos. 4400029683, 4400029684, and 4400029685
3. State Project Number(s), if shown in the advertisement	NA
4. Prime consultant name (name must match as registered with the Louisiana Secretary of State where such registration is required by law)	AECOM Technical Services, 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)	AECOM Technical Services, Inc. (AECOM) LAPELS No. EF.0002331
6. Prime consultant mailing address	8555 United Plaza Blvd., Suite 300 Baton Rouge, LA 70809
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	8555 United Plaza Blvd., Suite 300 Baton Rouge, LA 70809
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Jonathan McDowell, PE Associate Vice President 504.450.9904 • jonathan.mcdowell@aecom.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Jonathan McDowell, PE Associate Vice President 504.450.9904 • jonathan.mcdowell@aecom.com

Prime consultant should enter the firm name in the footer at the bottom of this page. (It will carry over to subsequent pages.)

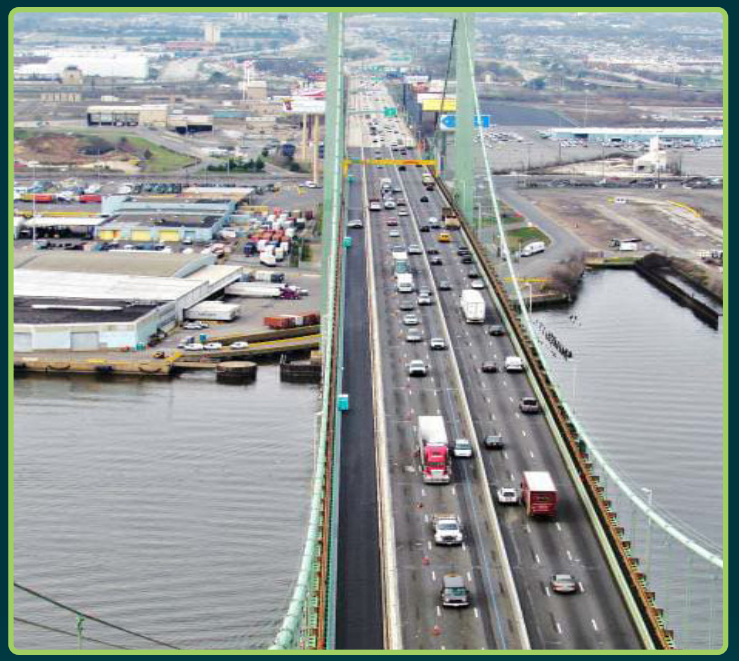
10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for 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..	 _____ Signature above shall be the same person listed in Section 9: Date: August 8st, 2024 – Received Q&A, dated July 26, 2024 – Received Addendum 1, dated July 26, 2024
11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.	Firm(s): Firm(s)' %: GEOTECH 1% VECTURA 2.50%

Sections 12-13

Walt Whitman Bridge Inspection and Rehabilitation, Camden, NJ and Philadelphia, PA

AECOM conducted an in-depth, detailed bridge inspection, preliminary and final design for the rehabilitation, roadway widening, and redecking of the bridge's 3,500 feet suspensions spans and the redecking of the 300 feet of anchorage spans.

The scope of work also included deck evaluation, floor truss strengthening, and finger joint replacement.



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12. Past Performance Evaluation Discipline Table:

As indicated in the advertisement, insert the 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: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

Past Performance Evaluation Discipline(s)	% of Overall Contract	AECOM	Huval and Associates, Inc.	Consor Engineers, LLC	KPFF, Inc.	KTA-Tator, Inc	T. Baker Smith, LLC	GOTECH, Inc.	Vectura Consulting Services, LLC	Each Discipline must total to 100%
Bridge	93%	61%	22%	10%	2%	5%	0%	0%	0%	100%
Traffic	5%	50%	0%	0%	0%	0%	0%	0%	50%	100%
Survey	2%	0%	0%	0%	0%	0%	50%	50%	0%	100%
Identify the percentage of work for the **overall contract** to be performed by the prime consultant and each sub-consultant.										
Percent of Contract	100%	59.23%	20.46%	9.30%	1.86%	4.65%	1.00%	1.00%	2.50%	100%

13. Firm 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 (please specify)" and include the classification title inside the parentheses.

The DOTD Job Classification(s) to be used can be found at the following link:

http://wwwsp.dotd.la.gov/Inside_DOTD/Divisions/Engineering/CCS/Job_Qualification/Job%20Classifications%20with%20Descriptions.pdf

Firm Name	DOTD Job Classification	Number of Personnel Committed to this Contract	Total number of personnel available in this DOTD Job Classification (if needed)
AECOM	Principal	1	4
	Supervisor – Engineer	4	14
	Supervisor – Other	2	12
	Engineer	5	18
	Engineer – Other	10	22
	Engineer Intern	8	24
	Inspector – Bridge	7	30
	Technician	1	8
consor	Supervisor - Eng	7	39
	Other (EI Diver)	1	8
	Other (Diver Technician)	4	46

Firm Name	DOTD Job Classification	Number of Personnel Committed to this Contract	Total number of personnel available in this DOTD Job Classification (if needed)
HUVAL PLANNING | DESIGN | CONSTRUCTION | MANAGEMENT	Principal	1	1
	Supervisor Engineer	2	5
	Engineer	5	16
	Engineer Intern	2	6
	Technician	1	2
	CADD Technician	2	3
	CADD Drafter	2	4
	Inspector-Certified	3	3
kpff	Inspector – Bridge	2	6
	Engineer – Other	2	6
	Principal	1	2
	Inspector	2	4
KTA	Supervisor-Other	2	4
GOTECH	Surveyor	1	2
	Instrument Man	2	2
	Party Chief	1	3
TBS T. BAKER SMITH A CENTURY OF SOLUTIONS	Supervisor - Other	2	20
	Senior Technician	1	21
	Party Chief	1	30
VECTURA CONSULTING SERVICES, LLC	Supervisor-Eng	2	2
	Engineer	2	3
	Engineer Intern	0	2
	Inspector	0	1
	Senior Technician	0	1
	Supervisor-Other	0	1
	Clerical	1	1

Sections 14-15

PRHTA, PR-5 over the La Plata River, Naranjito and Toa Alta, Puerto Rico

AECOM performed bridge inspection, load rating, and rehabilitation for this 1,319-ft cable-stayed and precast, pre-tensioned girder bridge over the La Plata River. The cable-stay unit totals 1050-ft with 263-ft side spans and a 524-ft main span.

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14. Organizational Chart

STRUCTURES & FACILITIES MAINTENANCE ADMINISTRATOR
Haylye Brown, PE

PROJECT MANAGER
Stephanie Doolittle, PE

PRINCIPAL-IN-CHARGE
Jonathan McDowell, PE (1&2)[9, 10]

PROJECT MANAGER
Brett Canimore, PE* (4)[1, 2]

Deputy Project Manager
Landon Whitton, PE (4)[1, 2, 3]

PROJECT QUALITY REPRESENTATIVE
Henry Fix, PE (3&4)[1, 2]

LEAD BRIDGE INSPECTION TEAM LEADER
Jason Mathers, PE (3&4)[1, 2, 3]

◆ – All team leaders have cable-stay/suspension, and truss bridge inspection experience

LEGEND:

Huv = Huval & Associates, Inc.
CON = CONSOR Engineers, LLC
KTA = KTA-Tator, Inc
KPFF = KPFF Consulting Engineers
TBS = T. Baker Smith, LLC
GOT = GOTECH, Inc.
VEC = Vectura

* - Not a Licensed PE in LA

(#) = Denotes MPR No. that individual fulfills.

Bridge Structural Condition Inspection Certifications

1. FHWA/NHI 130055, 130053 Certified Bridge Inspector
2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges
3. Society of Professional Rope Access Technician (SPRAT) Certified
4. ADCI – Association of Diving Contractors International Certified Diver
5. FHWA/NHI 130091 Underwater Bridge Inspection
6. ASNT – American Society of Non-Destructive Testing
7. NACE – National Association of Corrosion Engineers
8. SSPC – Society of Protective Coatings
9. TCS – Traffic Control Supervisor
10. TCT – Traffic Control Technician
11. PLS – Professional Land Surveyor
12. FAA Certified UAS Pilot

BRIDGE STRUCTURAL CONDITION INSPECTION

BRIDGE INSPECTION TEAM LEADERS ◆
Jason Zimpfer, PE (3&4)[1]
Joe Whelan, PE* (3&4)[1, 2, 3]
Allen Cantrell, PE* (4)[1, 2, 3, 12]
Ian McElhone, PE* (4)[1,2,3]
Craig Klusman, PE* (4)[1,2]
April Yorkonis, EI (4)[1, 2]
Dave Raffensperger (4)[1, 2,3]
Bryan Gatlin, PE* (4)[1,2]
Colby Guidry, PE (HUV) (3&4)[1,2,3,9,10]
Andrew Juneau, PE (HUV) (4) [1]
Eric Harbeson, PE* (CON) (4) [1,2,3,4,5]
Dustin Noel, PE* (CON) (4) [1,2,3,4,5]

BRIDGE INSPECTORS
Daniel Boyd, PE (5)[1]
Greg Bennett (5)[1,2]
Alexandra Gotta, EI (5)[1,2]
Gabe Umholtz, EI (5)[1,2]
Mike Zavorski (5)[1,2]
Sean Quick, EI (5)[1,3]
Brendan Kearns (5)[1, 3]
Connor Moss, EI (5)[1]
Kevin Curley, EI (5)[1]
Morgan Baumann, EI (5)[1]
Carlye Waldon (5)[1]
Patrick Broussard, PE (HUV) (5) [1]
Benjamin Schafer, PE* (CONSOR) (5) [1,2,3,4,5]
Chris Sasher, PE* (CON) (5) [1,2,3]

PROTECTIVE COATING INSPECTION
Robert Lanterman (6) (KTA) [7, 8]

MOVABLE BRIDGE INSPECTION
Brad Kopping, PE / Mechanical
Carlos Turcios, PE / Electrical
Jim Foley, PE*
William Hupperich, PE / Mechanical (HUV)

CABLE STAY/SUSPENSION EXPERTISE
Ken Butler, PE
Barry Colford, PE*
Scott Wyatt, PE* (1) (KPFF)[1]
Chris Ligozio, PE* (2) (KPFF)[1]

UNMANNED AERIAL SYSTEMS
Kevin Ahearn, PE* [1, 2, 12]
John Delp[12]
Allen Cantrell, PE*[12]

NON-DESTRUCTIVE EVALUATION
James Kretzler (7) (KTA)[6]

SPECIALTY SERVICES

UNDERWATER INSPECTION

DIVER TEAM LEADERS
Heath Pope, PE (CON) (8)[1, 3, 4, 5]
Dustin Noel, PE* (CON) (8)[1, 2, 3, 4, 5]
Matthew Ratliff (CON) (8)[1, 3, 4, 5]

DIVER BRIDGE INSPECTORS
Michael Sorensen (CON) (9) [1,4,5]
Andrew Harrison (CON) (9) [1,4,5]
Arthur LeForge (CON) (9) [1,4,5]
Paul Davis (9)

ACOUSTIC IMAGING
Michael Dukes, PE (CON) (8&10)[1, 2, 4, 5]

BRIDGE LOAD RATING & ANALYSIS
Jason Zimpfer, PE (3&4)[1]
Jason Mathers, PE, (3&4) [1, 2, 3]
Gabe Umholtz, EI (5)[1, 2]
Daniel Boyd, PE (5)[1]
Josh Geitreau, EI
Colby Guidry, PE (HUV) (3&4)[1,2,3,9,10]

DESIGN REPAIRS/REHABILITATION PLANS
Gary Maji, PE
Daniel Boyd, PE (5)[1]
Jason Zimpfer, PE (3&4)[1]
Jason Mathers, PE, (3&4) [1, 2, 3]
Travis Baker, PE* (4) [1, 2, 3]
Colby Guidry, PE (HUV) (3&4)[1,2,3,9,10]
Rob Dean, PE

INSTRUMENTATION & TESTING
Ed Zhou, PE*

TRAFFIC CONTROL PLANS
Jonathan McDowell, PE (1&2) [9, 10]
Sheelagh Brin Ferlito, PE, PTOE (VEC)
Laurence Lucius Lambert, II, PE, PTOE, PTP (VEC)

HYDROGRAPHIC & TOPOGRAPHIC
Rene Hebert, PLS (TBS)[11]
Jean Reulet, PLS (TBS) (11) [11]
John Biggs (GOT)
Bruce Dyson, P.E., P.L.S. (GOT)

AECOM: Trusted and Responsive

PennDOT District 6-0, Agreement E05073, NBIS Inspection of Philadelphia County State Owned Bridges

AECOM responded immediately after being contacted by PennDOT on a Sunday morning – June 11, 2023, to the I-95 NB bridge collapse from a tanker truck fire to perform an emergency assessment of the adjacent I-95 SB bridge. **AECOM mobilized an inspection team and bucket truck within a couple of hours and was on-site performing the inspection of the I-95 SB bridge while the fire that had resulted in the collapse of the I-95 NB bridge was still smoldering.** Through our hands-on inspection AECOM was able to inform PennDOT that the effects of the fire had compromised the integrity of the I-95 SB bridge superstructure.

"I want to express my appreciation for AECOM's service on our Complex Bridge Inspection Program. The reports and repair plans were clear and concise and submitted in a timely manner."

Haylye Brown, PE
DOTD Bridge Maintenance PM

"I would like to express my appreciation for the efforts of you and your staff (AECOM) in conducting the Biennial Inspection of the Walt Whitman Bridge... I would like to thank you again for the expertise, courtesy, and Responsiveness extended by you and your staff over the course of this agreement."

Michael P. Venuto, PE
DRPA Manager, Planner, and Design

"They (AECOM) were committed to deliver all bridge related deliverables and respond to all bridge inquiries in a timely and professional manner."

Jenny Fu
Former DOTD Bridge Administrator

15. Minimum Personnel Requirements

MPR No.	Personnel being used to meet the MPR	Firm employed by	Type of license and discipline meeting MPR/ certification & number	State of license	License / certification expiration date
1	Jonathan McDowell, PE	AECOM	PE/Civil/PE.0030508	LA	03/31/2025
2	Jonathan McDowell, PE	AECOM	PE/Civil/PE.0030508	LA	03/31/2025
3	Henry Fix, PE	AECOM	PE/Civil/PE.0038224	LA	03/31/2026
4	Jason Mathers, PE	AECOM	PE/Civil/PE.0046129	LA	03/31/2026
4	Joe Whelan, PE	AECOM	PE/ Civil/ PE. 0046129	KY	03/31/2026
5	Daniel Boyd, PE	AECOM	PE/Civil/PE.0036728	LA	03/31/2026
6	Robert Lanterman	KTA-Tator, Inc.	SSPC#2015-820-136 NACE#13505	N/A	05/23/2025 12/31/2027
7	James Kretzler	KTA-Tator, Inc.	ASNT Level III #186946	N/A	10/31/2025
8	Heath Pope, PE	Consor	PE/Civil/PE.36946	LA	09/30/2024
8	Dustin Noel, PE	Consor	PE/Civil/PE.079989 ADCI #24083	PA	09/30/2025 10/16/2028
8	Matthew Ratliff	Consor	ADCI #63277 - Diving Supervisor	N/A	07/26/2026
9	Michael Sorensen	Consor	ADCI #66467	N/A	08/18/2028
9	Andrew Harrison	Consor	ADCI #65278	N/A	11/12/2027
9	Arthur LeForge	Consor	ADCI #58342	N/A	02/11/2026
10	Michael Dukes, PE	Consor	PE/Civil/PE.0040986 ADCI #58165	LA	03/31/2025 07/27/2028
11	Rene Hebert, PLS, PMP	T. Baker Smith, LLC	PLS#0005070- Survey	LA	03/31/2026

Section 16

I-20 Vicksburg Bridge Inspection, Delta and Vicksburg, LA.

AECOM performed an in-depth bridge inspection for LADOTD of this 11,052-ft, 115-span structure which includes a 1,698-ft three-span, continuous, cantilever, bolted through truss structure. Work included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details with ultrasonic testing performed on the upper and lower hanger pins at Panel Points 15, and assessment of the paint coating system by a certified NACE Level 3 Bridge Coating Inspector.

16. Staff Experience

Firm	AECOM Technical Services, Inc.		
Jonathan McDowell, PE *(MPR 1 & 2)* Associate Vice President		Years of Relevant Experience with this Employer	21
		Years of Relevant Experience with Other Employer(s)	6
Degree(s) / Years / Specialization	BS/1996/Civil Engineering		
Active Registration Number / State / Expiration Date	PE.0030508/LA/03.31.2025 Additional active license: PE: MS, AR; ATSSA Traffic Control Supervisor – LA State Specific (2023/Exp. 2027); LADOTD Traffic Process and Report Parts 1, 2 and 3 (2018); FHWA-NHI-142005 NEPA and Transportation Decision-Making (2011); AASHTO Highway Safety Manual (2013)		
Year Registered	2003	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	**MPR 1, 2. Principal-in-Charge; 9. TCS – Traffic Control Supervisor; 10. TCT – Traffic Control Technician.** *Jonathan has served as a principal, project manager, and project engineer for a wide variety of transportation and public infrastructure projects in Louisiana and throughout the southeastern U.S. His roles have included numerous Stage 0 feasibility planning studies, NEPA EAs and EISs, line and grade alternatives development for new roadways and improvements to existing roadways, construction contract administration, and construction engineering and inspection for highway and public infrastructure projects. Design projects have included interstate highways, urban and rural roadways, major bridges crossings, railroads, drainage canals and culverts, and intermodal yard and port security improvements. Through his experience, he has the understanding of the project delivery process required to bring a transportation project from an idea to a built reality.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
03/23 – present	**LADOTD, LA 561 Boeuf River Bridge Replacement (SP No. H.001970.1), Hebert, Caldwall, and Richland, Parishes, LA.** *Road Design Task Leader.* Replacement of a 700 ft through truss bridge with a new prestressed concrete girder bridge. Tasks included the development of the horizontal and vertical geometry for the bridge replacement on the existing alignment while updating the typical section of the road to current standards and modifications to the adjacent gravel local road, Womack Road, that serves four residences along the Boeuf River.
10/21 – present	**Louisiana Intermodal Terminal Preliminary Design, Port of New Orleans, Violet, LA.** *Deputy Project Manager and Project Engineer.* Preliminary design of the full intermodal container yard facility along the Mississippi River near Violet, Louisiana. Developed conceptual design for the relocation of St Bernard Highway (LA 46), improvements along Judge Perez Drive (LA 39), and the access interchange and the new port access road to the terminal gate. Developed conceptual layout for the container terminal internal road plans and developed the geometric design of the wharf ramps. Developed the conceptual design for the relocation of the mainline Norfolk Southern railroad and the yard lead tracks, intermodal railroad yard tracks, and the support yard tracks. Managed team of engineers and support staff to deliver 30% Plans for two highway improvements packages and the rail relocation and new industrial yard tracks package. Leading the permitting process for DOTD and Railroad ROW permits. Developed yard layout, circulation and access points.
10/20 – present	**City of Baton Rouge/Parish of East Baton Rouge, College Drive Improvements (Perkins Road to Bawell), Baton Rouge, LA.** *Project Manager and Task Manager.* Urban Road Design and Complete Streets improvements to College Drive. The project include a Design Study to develop a corridor and street network plan that includes potential connecting side road improvements, access management solutions, and other improvements along College Drive and the I-10 ramps to provide congestion relief and improve driver and pedestrian safety. The selected alternative will move to preliminary and final design.

09/17 – present	**Coastal Restoration and Protection Authority of the State of Louisiana, Mid Barataria Sediment Diversion, (SP No. BA-0153), Plaquemines Parish, LA.** *Task Manager and Lead Engineer.* Relocation of LA 23 and the NOGC Railroad across the proposed sediment diversion. Also responsible for the design of service roads along LA 23 and railyard layout that contractor will use for site deliveries. Provided QC review for the traffic report and participation in the environmental and public involvement tasks. AECOM is the lead design development team for the $1.5 billion CMAR project. The rail improvements provide for the extension of track across the diversion channel intake structure which would feature a moveable span for canal maintenance and approximately 10,000 feet of new railroad track. The highway improvements will include a 2,300 foot long structure composed of precast and cast in place concrete elements that will carry two lanes in each direction with shoulders and have accommodations for up to two water mains to be hung under the bridge deck. Roadway improvements include access roads on each side of the bridge to maintain adjacent property access and new roadways to connect the existing highway to the new bridge structure. Tasks include road design, drainage, signing, and MOT. Currently leading construction support task for the highway improvements.
07/15 – present	**LADOTD, I-49 Connector, Lafayette Regional Airport to I-10/I-49/US 167 Interchange, (SP No. H.004273.5), Lafayette Parish, LA.** *Project Manager, Leadership Team Member, and Railroad Coordination and Alignment Modifications Task Manager.* NEPA Supplemental EIS and Design of a 5-mile urban freeway corridor. The project includes a very elaborate Context Sensitive Solutions process that is occurring concurrently with the environmental process. The project include a signature bridge, an urban master plan for local road and frontage road connections, implementation strategies and modifications to an adjacent railroad track including the replacement of up to three at-grade crossings with underpasses and possible modifications to an Amtrak station platform. Other rail modifications include replacing at grade crossing with highway overpasses. In addition, Jonathan will also perform tasks associated with highway geometrics, highway traffic, and environmental and public involvement tasks.
06/15 – present	**LADOTD, Route LA 3139, Earhart Expressway Extension to US 61, (SP No. H.004367.5), Jefferson Parish, LA.** *Task Manager and Lead Roadway Engineer.* Extension of the Earhart Expressway (LA 3139) onto Airline Drive (US 61). Developed urban highway geometric alternatives to accept the expressway extension into the Airline Drive Corridor. Alternatives considered the lane configuration, location of direct and indirect median openings, location and potential phasing of traffic signals, pedestrian movement within the corridor, bus stop locations, utility impacts, access management, and ability to drop lanes along the corridor to transition back to the current lane configuration at the west end of the project. Reviewed traffic reports and participated in the environmental and public involvement tasks.
2015 – present	**LADOTD, Road Safety Assessment (RSA) Facilitation, (SP No. H.011935.5), Statewide, LA.** *Project manager and lead engineer.* Tasked to facilitate up to 10 Road Safety Assessments as requested by LADOTD. Tasks include analysis of crash data, preparation of RSA meeting handout, facilitation of the RSA meeting and site visit, preparation of the RSA report. Six RSAs have been performed as of April 2016 in DOTD Districts 02, 07, 08, 61, and 62.
02/07 – 11/09	**City of Baton Rouge/Parish of East Baton Rouge, Siegen Lane Improvements (Highland Road to Perkins Road), Baton Rouge, LA.** *Project Manager and Task Manager.* Design of corridor improvements to Siegen Lane to upgrade the two lane suburban road to a four lane urban boulevard. Performed road geometrics, develop suggested sequence of construction plans, and reviewed the drainage plans and calculations. Managed and authored the design study which included an alignment analysis, preliminary drainage design, a Phase I Environmental Site Assessment, a wetland study, and a noise study.
11/04 – 02/17	**LADOTD (SP No. 700-92-0016), Florida Avenue Bridge over IHNC, New Orleans, LA.** *Deputy Project Manager and Project Engineer.* Responsible for the geometric design of a high-level bridge with 158 ft vertical clearance and associated interchange ramps and approach roadways. Coordinated with utility companies and railroad agency for proposed relocations of a 48" water main, a 54" sewer force main, a 72" sewer force main, an electrical duct bank, a temporary railroad relocation, and several other utilities that were affected by the construction of the bridge. Proposed modifications to the site layout and parking area for an operator house associated with the existing adjacent draw bridge and a drainage pump station located under the proposed bridge. Prepared cost estimates for the main span and approach bid packages. Assisted in PM duties.

Firm	AECOM Technical Services, Inc.		
Brett Canimore, PE, CBI *(MPR 4)* Project Manager		Years of Relevant Experience with this Employer	24
		Years of Relevant Experience with Other Employer(s)	8
Degree(s) / Years / Specialization	MS / 2009 / Engineering Management BS / 1994 / Civil Engineering Technology		
Active Registration Number / State / Expiration Date	PE053513E / PA / 9/30/2025 Additional active licenses; DE, GA, MD; MI, MT, NJ NY, PA, FL, AR, PR		
Year Registered	1999	Discipline	Civil Engineer
Contract Role(s) / Brief Description of Responsibilities	**MPR 4. Project Manager; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges.** *Brett has more than 32 years of experience in bridge inspection, rehabilitation and design and has been a Certified Bridge Safety Inspector since 1995. He has served as project manager, project engineer and lead structural engineer on a variety of projects. Brett has been involved in more than 12,000 routine and in-depth NBIS and underwater inspections. His activities in bridge inspections encompass field investigations, analysis and ratings, streambed evaluations, technical reports, studies and recommendations. Training: Bridge Safety Inspector Training Course; 1995, PA; Bridge Safety Inspection Training Refresher Courses; 1997 through 2022, PA; NHI Course No. 130078 - Fracture Critical Insp. Techniques for Steel Bridges; 2002 & 2018.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
02/23 – present	**Contract No. 44-21593 Louisiana Department of Transportation and Development (LADOTD), IDIQ for Bridge Load Rating Services, Statewide, LA.** *Project Manager.* Present load rating analysis of 140 bridges throughout Louisiana, including superstructure and substructure analysis; developed proprietary calculation tools for influence-based analysis of bent caps and timber piles; provided recommendations for mitigation and repair of deficient structures.
12/12 – 06/18	**Contract No. 44-2687 State Project No. H.009730.5 Louisiana Department of Transportation and Development (LADOTD), In-Depth Inspection of Complex Structures, Statewide, LA.** *Project Manager.* The four-year retainer contract to perform in- depth bridge inspections of assigned complex structures. Assigned bridges include the Gramercy Bridge (2013), US 190 EB and WB Structures over the Atchafalaya River (2014), I-210 Lake Charles Bridge (2014), Louisa Bridge (2015), Vicksburg Bridge (2015), Mississippi River Gulf Outlet Bridge (2015), Miller's Bluff Bridge (2016) and the Greater New Orleans Bridge (2016). Assigned work also included the design to reset the rocker nest truss bearings of the US 190 WB Structure over the Atchafalaya River.
04/22 – 4/24	**Delaware River Port Authority (DRPA), Commodore Barry Bridge over Delaware River 2022 Biennial Inspection, PA and NJ.** *Project Manager for the biennial inspection that included a close visual "hands-on" inspection of all NSTM and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans.* This project included ultrasonic testing of the pins and electro-slag A514 steel welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. The project also included the inspection of the sign structures, the US130 over pass structures and the toll and maintenance buildings. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.

03/20-03/22	**Delaware River Port Authority (DRPA), Betsy Ross Bridge over Delaware River 2020 Biennial Inspection, PA and NJ.** *Project Manager for the biennial inspection that included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the main truss bridge, the approach truss spans, the approach girder spans, and numerous approach structures.* This project included an underwater inspection of the channel piers and inspection and mapping via an unmanned aerial vehicle (UAV). The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.
03/18-03/19	**Delaware River Port Authority (DRPA), Commodore Barry Bridge Bridge over Delaware River 2018 Biennial Inspection, PA and NJ.** *Project Manager for the biennial inspection that included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans.* This project included ultrasonic testing of the pins and electro-slag welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA
03/16-03/17	**Delaware River Port Authority (DRPA), Betsy Ross Bridge over Delaware River 2016 Biennial Inspection, PA and NJ.** *Project Manager for the biennial inspection that included the main truss bridge, the approach truss spans, the approach girder spans, numerous overpass structures, and two culverts.* A final report was prepared that included a description of the findings, recommendations for repairs, SI&A, Pontis and BMS updates.
03/14-03/15	**Delaware River Port Authority (DRPA), Commodore Barry Bridge Bridge over Delaware River 2014 Biennial Inspection, PA and NJ.** *Project Director for the biennial inspection that included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans.* This project included ultrasonic testing of the pins and electro-slag welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. A final report was prepared that included a description of the findings, recommendations for repairs, SI&A, Pontis and BMS updates.
8/18-7/19	**Mississippi Department of Transportation, Routine/Fracture Critical Biennial Inspection of the US 82 over Mississippi River, Greenville, MS.** *Project Quality Representative for the 2018 biennial inspection of the US 82 cable-stay ed bridge spanning the Mississippi River Bridge connecting Mississippi and Arkansas.* The bridge is 2.6 miles total in length from abutment to abutment. Responsibilities included performing a field audit of the inspection activities and technical review of the bridge inspection report. Inspection access included aerial boom lifts, under bridge inspection vehicles (UBIV), industrial rope access climbing and via an unmanned aerial vehicle (UAV). The UAV was a DJI Matrice 210 RTK which was utilized to perform a visual inspection of the cable sheathing.

Firm	AECOM Technical Services, Inc.		
Landon Whitton, PE, CBI *(MPR 4)* Associate Vice President		Years of Relevant Experience with this Employer	9
		Years of Relevant Experience with Other Employer(s)	0
Degree(s) / Years / Specialization	BS/2009/Mechanical Engineering		
Active Registration Number / State / Expiration Date	41523 / LA / 09.30.25 Additional active license: MS, AR		
Year Registered	2017	Discipline	Civil Engineer
Contract Role(s) / Brief Description of Responsibilities	**MPR 4. Deputy Project Manager; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges; 3.Society of Professional Rope Access Technician (SPRAT) Certified.** *Landon has technical and management experience in many facets of engineering projects. Landon's technical experience is in Bridge Load Ratings, design, and inspection. He routinely manages bridge and hydraulic projects.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
04/20 – present	**North Dakota Department of Transportation, North Dakota County Bridge Inspections.** *Project Manager, Inspection Team Leader.* North Dakota Department of Transportation hired AECOM to perform inspections and load ratings (using AASHTOware BrR) on over 700 county bridges across the northwestern part of the state. The substructures were a mix of timber pile bents, reinforced concrete configurations, steel H-pile bents and masonry abutments. The superstructure types inspected/evaluated during this project included: steel I-beams, prestressed girders, trusses, RC channel beams, RC culverts, RC slabs, and steel pipe culverts.
07/20 – present	**MDOT, SR 3 Phase B Post-Tensioned Haunched I-girder Bridge Design (July 2020) and Phase C (present).** *Project Manager.* MDOT contracted AECOM to perform bridge engineering services for the Phase B Bridge Design for SR 3 Bridge No. 183.8 and Bridge No. 184.2 in Tate County. Per the Phase B contract, AECOM created construction plans for both structures. Per Phase C contract, AECOM provided Post tensioning inspection services for the haunched post-tensioned I-girder superstructure on Bridge 183.8 with a main span length of 250ft. Landon was the project manager for the projects.
09/20 – present	**MDOT SR 63 Bearings Inspection/Phase A (2020-2021) and Phase B (2022-2023).** *Project Manager.* MDOT hired AECOM to provide in-depth inspection and conceptual design recommendations on the repairs or replacements for the bearings on SR 63 over Escatawpa River. The bridge consisted of steel fixed, steel movable, and neoprene bearings. After Phase A, AECOM was contracted to provide construction drawings for the rehabilitation and replacements of the bearings. Landon was project manager for both contracts.
06/22 – present	**MDOT, MS-178 over Byhalia Creek and Barrow Creek Phase-A Hydraulic Recommendations.** *Project Manager.* MDOT retained consulting firms to perform Phase A bridge hydraulic recommendations. Landon is the Project Manager and assisted in the bridge layouts.
08/17 – 08/23	**Mississippi Office of State Aid, State Aid Complex Inspections.** *Project Manager, Inspection Team Leader.* Mississippi Office of State Aid have hired AECOM to perform inspections and load ratings on over 300 county and urban bridges across the Northern part of the state. Landon manages the project as well as performing bridge inspection on the project. The substructures were a mix of timber piling, steel H-pile, and reinforced concrete piles. The superstructure types inspected/evaluated during this project included; steel I-beams, prestressed girders, trusses, RC channel beams, RC culverts, RC slabs, girders made from steel railroad cars, and steel military bridges.

07/23 – 08/23	**KYTC William H. Natcher Bridge (US-231 over Ohio River) Fracture Critical, NBI, and Element Level Inspections.** *Bridge Team Leader.* KYTC hired AECOM to perform Fracture Critical, NBI, and Element Level Inspections of the cable stayed bridge on US-231 over the Ohio River. Landon served as a bridge team leader on the project and inspected the fracture critical members on the bridge.
07/22 – 12/22	**MDOT, I-110 over Biloxi Back Bay Movable Bridge In-Depth Inspection.** *Project Manager and Inspection Team Leader.* MDOT hired AECOM to perform the in-depth inspection of I-110 over Biloxi Back Bay. This bridge includes a twin double leaf bascule main span. Landon was the project manager and an inspection team leader on the project and assisted with preparation of the report.
06/20 – 01/22	**MDOT, I-20EB/I55NB Box Girder Rehabilitation Conceptual Design.** *Project Manager.* MDOT hired AECOM to provide Phase A bridge conceptual plans for rehabilitation and replacement options for I-20 EB to I-55 NB. The bridge is a dapped end box girder bridge, and the rehabilitation options maintained one lane of travel during construction. Landon served as project manager on the contract.
06/20 – 01/22	**MDOT I-20EB to I-55NB Box Girder Inspection and Analysis.** *Project Manager and Inspector.* MDOT hired AECOM to perform a field inspection and load rating, including accessing the interior of the box girders and providing an in-depth inspection of the dapped end girder details, on this 17-Span, multi-celled box girder bridge. The load rating utilized CSIBridge and post processing hand calculations. Landon served as project manager and participated in the inspection of the girders.
01/16 – 07/22	**MDOT, Scour Evaluations, Bridge Engineer.** *Inspector.* MDOT hired AECOM to perform Scour Evaluations of I-59 over Tangipahoa River, and I-55 over Black Creek and Little Black Creek. Landon was responsible for the inspection of the substructure, as well as assisting in determining substructure penetration depths for future scour events. – I-55 over Tangipahoa River in Pike River County, MS – I-59 over Black Creek and Little Black Creek Lamar, MS – I-10 over Pascagoula River, Escatawpa River, and Black Creek
12/18 – 07/20	**MDOT Seismic Guide.** *Project Manager.* MDOT contracted AECOM to create a Seismic Design guide that provides step-by-step procedures for seismic design of a substructure. The guide is an interactive excel spreadsheet that interacts with CSIBridge to create a model of the bridge to perform a seismic analysis.
04/18 – 12/18	**MDOT, Post-Tensioned Load Ratings.** *Project Manager and Load Ratings Engineer.* MDOT hired AECOM to perform load ratings on 13 Post-tensioned bridges using CSIBridge software. The superstructure types were Box-Girder w/ post tensioning over the piers, I-girders w/ post tensioning, and haunched I-girders with post-tensioning. Landon served as Project Manager and as well as Load Ratings Engineer.

Firm	AECOM Technical Services, Inc.		
Henry Fix, PE *(MPR 3 & 4)* Project Quality Representative		Years of Relevant Experience with this Employer	28
		Years of Relevant Experience with Other Employer(s)	8
Degree(s) / Years / Specialization	BSE / 1987 / Civil Engineering MCE / 1992 / Structural Engineering		
Active Registration Number / State / Expiration Date	PE.0038224 / LA / 03/31/2026 Additional active licenses; PA, NJ, AZ, AK, DE, FL, MD, MT and Puerto Rico		
Year Registered	1992/2020	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	**MPR 3 and 4. Project Quality Representative; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges.** *Henry will be the Project Quality Representative for this contract. He has substantial design experience on a wide range of bridge, bridge inspection, highway, railway and industrial facility projects. An NBIS certified bridge inspector since 1989, he has participated in a broad range of bridge inspection activities as an Inspection Team Leader. Henry has an extensive background in structural modeling and design, utilizing finite element software, including STAAD, GTSTRUDL, and ANSYS. Training: Bridge Safety Inspector Training, NJDOT, 1988; PennDOT BSITC Certification, 1989; Refresher course 2010-2022.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
12/12 - 06/18	**Louisiana Department of Transportation and Development (LADOTD), In-Depth Inspection of Complex Structures, Statewide, LA.** *Project Quality Representative and Bridge Inspection Team Leader.* Responsible for the in-depth bridge inspections of assigned complex structures. Assigned bridges include the Gramercy Bridge (2013), US 190 EB and WB Structures over the Atchafalaya River (2014), I-210 Lake Charles Bridge (2014), Louisa Bridge (2015), Vicksburg Bridge (2015), Mississippi River Gulf Outlet Bridge (2015), Miller's Bluff Bridge (2016), Greater New Orleans Bridge (2016), LA 182 Morgan City Bridge (2017), and LA 315 Dularge Bridge (2017). Assigned work also included the design to reset the rocker nest truss bearings of the US 190 WB Structure over the Atchafalaya River and the deck condition study of the LA 1 Port Alan Canal Bridge and I-10 Atchafalaya Basin Bridge. Responsibilities included development of the project work plan and safety plan, leading the inspection crews and overseeing the consistency of the field inspections and detailed inspection report.
04/22 – 04/24	**Delaware River Port Authority (DRPA), Commodore Barry Bridge over Delaware River 2022 Biennial Inspection, PA and NJ.** *Project Quality Representative and Team Leader.* Responsible for the biennial inspection that included a close visual "hands-on" inspection of all NSTM and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans. This project included ultrasonic testing of the pins and electro-slag A514 steel welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. The project also included the inspection of the sign structures, the US130 over pass structures and the toll and maintenance buildings. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.

04/20 - 03/22	**Delaware River Port Authority (DRPA), Betsy Ross Bridge over Delaware River 2020 Biennial Inspection, PA and NJ.** *Quality Representative, Deputy Project Manager and Bridge Inspection Team Leader.* Responsible for overseeing the biennial inspection that included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the main truss bridge, the approach truss spans, the approach girder spans, and numerous approach structures and development of the detailed inspection report. This project included an underwater inspection of the channel piers and inspection and mapping via an unmanned aerial vehicle (UAV). The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.
03/18 – 03/19	**Delaware River Port Authority (DRPA), Commodore Barry Bridge over Delaware River 2018 Biennial Inspection, PA and NJ.** *Project Quality Representative, Deputy Project Manager and Bridge Inspection Team Leader.* Responsible for overseeing the biennial inspection that included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans, and development of the detailed inspection report. This project included ultrasonic testing of the pins and electro-slag welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.
03/16-03/17	**Delaware River Port Authority (DRPA), Betsy Ross Bridge over Delaware River 2016 Biennial Inspection, PA and NJ.** *Project Quality Representative, Deputy Project Manager, and Bridge Inspection Team Leader.* Responsible for the biennial inspection that included the main truss bridge, the approach truss spans, the approach girder spans, numerous overpass structures, and two culverts. A final report was prepared that included a description of the findings, recommendations for repairs, SI&A, Pontis and BMS updates.
03/14 – 03/15	**Delaware River Port Authority (DRPA), Commodore Barry Bridge over Delaware River 2014 Biennial Inspection, PA and NJ.** *Project Manager.* Responsible for the biennial inspection that included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans. This project included ultrasonic testing of the pins and electro-slag welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. A final report was prepared that included a description of the findings, recommendations for repairs, SI&A, Pontis and BMS updates.
07/21 - present	**Delaware River Port Authority, Commodore Barry Bridge over Delaware River Top Chord Connection Evaluation, PA and NJ.** *Project Manager.* Responsible for the investigation of cracks and bolt failures in the connection of a truss vertical member to the top chord on the eleven, 370-foot deck truss spans. This investigation included three phases: instrumentation, inspection, and structural modelling. The instrumentation work included the use of 49 wireless sensors consisting of strain gauges, triaxial accelerometers, surface temperature sensors, an anemometer, cameras, and displacement transducers. The monitoring was for one month of data collection and also with calibrated load tests. The access was provided with the use of a 135-foot straight boom lift, an under bridge unit and SPRAT certified inspectors. A comprehensive report was prepared with the findings from the investigation and recommendations for mitigation.

Firm	**AECOM Technical Services, Inc.**		
 **Jason Mathers, PE *(MPR 3 & 4)*** Bridge Inspection Team Leader/Structural Engineer		Years of Relevant Experience with this Employer	19
		Years of Relevant Experience with Other Employer(s)	0
Degree(s) / Years / Specialization	BS / 2007 / Civil Engineering		
Active Registration Number / State / Expiration Date	PE.0046129 / LA / 3/31/2026 Additional active licenses, DE, PR, PA, NJ, FL, MT		
Year Registered	2014/2021	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	**MPR 3 and 4. Lead Bridge Inspection Team Leader; Bridge Load Rating & Analysis ; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges; 3.Society of Professional Rope Access Technician (SPRAT) Certified.** *Jason will be the lead bridge inspection team leader for this contract. He is a professional engineer with 19 years of experience in the inspection, load rating, and analysis of bridge structures. Jason has been a Certified Bridge Safety Inspector since 2005 and SPRAT Level III certified rope access worker since 2012. He has performed bridge inspection services for over 1,200 structures and completed over 700 bridge load ratings. He has utilized ASD, LFD, and LRFD analysis methodologies, is proficient in AASTHO BrR (previously Virtis), LARS, STAAD and Midas.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
02/23 - present	**Louisiana Department of Transportation and Development (LADOTD), IDIQ for Bridge Load Rating Services, Statewide, LA.** ***Load Rating Engineer.*** Responsible for this present load rating analysis of 140 bridges throughout Louisiana, including superstructure and substructure analysis; developed proprietary calculation tools for influence-based analysis of bent caps and timber piles; provided recommendations for mitigation and repair of deficient structures.
12/12 – 06/18	**Louisiana Department of Transportation and Development (LADOTD), In-Depth Inspection of Complex Structures, Statewide, LA.** ***Rope Access Bridge Inspector.*** Responsible for the four-year retainer contract to perform in-depth bridge inspections of assigned complex structures. Assigned bridges include the Gramercy Bridge (2013), US 190 EB and WB Structures over the Atchafalaya River (2014), I-210 Lake Charles Bridge (2014), Louisa Bridge (2015), Vicksburg Bridge (2015), Mississippi River Gulf Outlet Bridge (2015), Miller's Bluff Bridge (2016), Greater New Orleans Bridge (2016), LA 182 Morgan City Bridge (2017) and LA 315 Dularge Bridge (2017). Assigned work also included the design to reset the rocker nest truss bearings of the US 190 WB Structure over the Atchafalaya River.
04/22 – 04/24	**Delaware River Port Authority (DRPA), Commodore Barry Bridge over Delaware River 2022 Biennial Inspection, PA and NJ.** ***Bridge Inspection Team Leader.*** Responsible for the biennial inspection that included a close visual "hands-on" inspection of all NSTM and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans. This project included ultrasonic testing of the pins and electro-slag A514 steel welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. The project also included the inspection of the sign structures, the US130 over pass structures and the toll and maintenance buildings. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.

05/20 - 03/21	**Delaware River Port Authority (DRPA), Betsy Ross Bridge over Delaware River 2020 Biennial Inspection, PA and NJ.** *Team Leader.* Responsible for the biennial inspection that included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the main truss bridge, the approach truss spans, the approach girder spans, and numerous approach structures. This project included an underwater inspection of the channel piers and inspection and mapping via an unmanned aerial vehicle (UAV). The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.
05/18 - 03/19	**Delaware River Port Authority (DRPA), Commodore Barry Bridge over Delaware River 2018 Biennial Inspection, PA and NJ.** *Inspection Team Leader.* Responsible for the biennial inspection that included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans. This project included UT of the pins and electro-slag welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.
05/16 - 03/17	**Delaware River Port Authority (DRPA), Betsy Ross Bridge over Delaware River 2016 Biennial Inspection, PA and NJ.** *Inspection Team Leader.* Responsible for the biennial inspection that included the main truss bridge, the approach truss spans, the approach girder spans, numerous overpass structures, and two culverts. A final report was prepared that included a description of the findings, recommendations for repairs, SI&A, element level data, and BMS updates.
04/14 - 12/14	**Delaware River Port Authority (DRPA), Commodore Barry Bridge over Delaware River 2014 Biennial Inspection, PA and NJ.** *Inspection Team Leader.* Responsible for the biennial inspection that included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans. This project included ultrasonic testing of the pins and electro-slag welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. A final report was prepared that included a description of the findings, recommendations for repairs, SI&A, element level data, and BMS updates.
04/12 – 02/12	**Delaware Department of Transportation (DelDOT), Inventory Inspection of the Indian River Bridge, DE.** *Bridge Inspector.* Responsible for the 2012 Inventory Inspection of the 2,600-foot long post-tensioned concrete structure with cable-stayed main span crossing the Indian River Inlet. The inspection efforts included a close-up, hands-on inspection of all members of the structure to document the baseline conditions. The inventory inspection verified the safety of the bridge, in accordance with the NBIS and DelDOT standards. The inspection efforts culminated with the production of a full bridge inspection report including NBIS inspection forms and supporting documents.
08/18-07/19	**Mississippi Department of Transportation, Routine/Fracture Critical Biennial Inspection of the US 82 over Mississippi River, Greenville, MS.** *Bridge Inspection Team Leader.* Responsible for the 2018 biennial inspection of the US 82 cable-stay ed bridge spanning the Mississippi River Bridge connecting Mississippi and Arkansas. The bridge is 2.6 miles total in length from abutment to abutment. Responsibilities included performing a field audit of the inspection activities and technical review of the bridge inspection report. Inspection access included aerial boom lifts, under bridge inspection vehicles (UBIV), industrial rope access climbing and via an unmanned aerial vehicle (UAV). The UAV was a DJI Matrice 210 RTK which was utilized to perform a visual inspection of the cable sheathing.

Firm	AECOM Technical Services, Inc.		
 **Jason Zimpfer, PE *(MPR 3 & 4)*** Bridge Inspection Team Leader/Structural Engineer		Years of Relevant Experience with this Employer	15
		Years of Relevant Experience with Other Employer(s)	0
Degree(s) / Years / Specialization	MS / 2007 / Structural Engineering BS / 2006 / Civil Engineering		
Active Registration Number / State / Expiration Date	PE.0045922 / LA / 3/31/2026 Additional active licenses; UT, PA, DE, TX, PR, NJ, CO, FL, MT		
Year Registered	2013	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	**MPR 3 and 4. Bridge Inspection Team Leader; Bridge Load Rating & Analysis; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector.** *Jason will be one of AECOM's Bridge Inspection Team Leaders, Bridge Load Rating and Analysis and Rehabilitation Design Team for this contract. He has 15 years of extensive and varied analysis, design, research, and bridge inspection experience. He has performed load rating analyses of more than 1,600 bridges and culverts in more than 15 states and coordinates a team of bridge load rating engineers. He is a certified bridge safety inspector and has performed inspections and load ratings of numerous bridges, including long-span, complex structures. Jason's other analysis experience includes coordinating load ratings of deteriorated and deficient structures and gusset plate analysis of truss structures. He has been involved with long-span truss inspection, analysis, and rehabilitation, and has performed structural research at a graduate level. He has experience with finite element modeling, various commercial bridge analysis software packages, as well as the development of proprietary tools and methods to perform bridge analysis calculations. Training: Bridge Safety Inspection Training and Certification, 2009; Bridge Safety Inspection Training Program Refresher Courses 2011 through 2022, PA.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
02/23 - present	**Louisiana Department of Transportation and Development (LADOTD), IDIQ for Bridge Load Rating Services, Statewide, LA.** *Lead structural engineer* responsible for quality, schedule, budget, technical aspects, and communication for this present load rating analysis of 140 bridges throughout Louisiana, including superstructure and substructure analysis; developed proprietary calculation tools for influence-based analysis of bent caps and timber piles; provided recommendations for mitigation and repair of deficient structures.
08/14 – 09/17	**Louisiana Department of Transportation and Development (LADOTD), US-190 Krotz Springs Atchafalaya Bridge Bearing Repair, LA.** *Structural engineer* responsible for preliminary and final design of superstructure jacking and repair of the nested rocker bearings supporting the free end of a three-span, 1500 ft long cantilever through truss.
01/18 – present	**Montana Department of Transportation (MDT), Load Rating Bridges Term Contracts 2018-2021 & 2021-2024.** *Lead Bridge Load Rating Engineer r*esponsible for quality, schedule, budget, technical aspects, and communication for load rating services for this statewide contract. The goal of this project is to provide load rating services on an as-needed basis for all of the state's legal loads. The work includes the analysis and rating of nearly 1,000 bridges to date throughout the state. The bridges include steel truss-floorbeam-stringer systems with gusset plate analysis, glue laminated timber, solid-sawn timber, reinforced concrete, prestressed concrete, multi-girder steel, corrugated metal pipe, and steel girder-floorbeam-stringer systems. AECOM used AASHTOWare Bridge Rating (BrR) software to analyze all structures that the program is capable of modeling, and Midas Civil for 3D FEM analysis, when required.

05/17-05/22	**PennDOT District 6-0, Agreement E03796, NBIS Inspection of 436 State Owned Bridges in Montgomery County, PA.** *Bridge Inspection Team Leader f*or the 2-cycle contract focusing on structures within the high ADT I-476, SR 422 and SR 309 corridors. Inspections were often restricted to a 9am to 3pm window to minimize impacts to traffic. Project included routine NBIS, interim, emergency on-call services, and CoRe element level inspections.
07/17– 01/20	**Mississippi Office of State Aid Road Construction, Bridge Load Rating, MS.** *Lead structural engineer* responsible for coordination, calculation checking, and quality control of load rating efforts for this assignment with approximately 100 bridges, using the BrR software, including steel, reinforced concrete, prestressed concrete, and timber superstructures, as well as timber pile substructures and timber decks. Field-noted deterioration is included in calculations and load rating models.
06/19 - 08/19	**NASA/Kennedy Space Center: Indian River Bridge Derating Assessment Study, Kennedy Space Center, FL.** *Task leader* for the load rating analysis of twin double-leaf bascule span bridges carrying the NASA Causeway at Kennedy Space Center over the Indian River. Main bascule spans and steel girder approach spans were analyzed using the AASHTOWare Bridge Rating (BrR) software for NASA special transport vehicles and Florida legal vehicles. The analysis considered counterweight loads behind the trunnion, as well as modeling the effect of the live load anchor and center span lock.
05/12 – 12/18	**Pennsylvania Department of Transportation - District 5-0, Load Rating Analysis, Carbon, Monroe, and Schuylkill Counties, PA.** *Lead structural engineer* responsible for coordinating all load ratings performed on the contract (approximately 150 to date). Load ratings are performed on deteriorated structures based on the NBIS inspections provided by AECOM. Responsible for regular client communication, reporting results to PennDOT, and posting and repair recommendations based on analysis results.
07/12 – 07/18	**PennDOT District 5-0, Safety Inspections of State Owned Bridges, Monroe, Carbon and Schuylkill Counties, PA.** *Inspection Team Leader and Load Rating Engineer* for this three-cycle contract. Inspected all aspects of the bridge including safety features, roadway conditions, deck, superstructure, substructure and scourability. The inspections sometimes required the use of special equipment and traffic control. Performed post-flood emergency response inspections required after significant flooding events. In addition to inspection, also responsible for organizing and compiling all field notes, photographs and maintenance items for the preparation of the technical forms and reports and recommend load rating analysis where necessary. Handled all notifications and correspondence to the local owner regarding priority maintenance, sign installations, tracking the progress of repairs to the structure and updating the pertinent fields in BMS2.
11/15 – 05/17	**Minnesota Department of Transportation (MnDOT), Bridge 62090 (High Bridge) Re-Deck Project, MN.** *Structural engineer* responsible for coordinating load rating efforts for 8 approach spans of this curved and splayed steel plate girder bridge using BrR software. Performed QC review of calculations and program inputs, coordinated repair recommendations associated with the redecking and strengthening of this steel tied-arch structure with curved plate girder approach spans.
01/15 – 08/15	**Utah Department of Transportation, Load Rating Analysis, UT.** *Structural engineer* responsible for checking load rating calculations for more than 20 prestressed and reinforced concrete bridges and culverts using the AASHTOWare Bridge Rating (BrR) software. Assisted in the creation of Utah state load rating policy for bridges without available plans and responsible for implementing this policy in the several dozen bridge and culvert analyses.

Firm	**AECOM Technical Services, Inc.**		
 **Joseph (Joe) Whelan, PE *(MPR 4)*** Bridge Inspection Team Leader		Years of Relevant Experience with this Employer	10
		Years of Relevant Experience with Other Employer(s)	0
Degree(s) / Years / Specialization	BS / 2013 / Civil Engineering MS / 2014 / Civil Engineering		
Active Registration Number / State / Expiration Date	34405/KY/6/30/2026		
Year Registered	2019	Discipline	Professional Engineer
Contract Role(s) / Brief Description of Responsibilities	**MPR 4. Bridge Inspection Team Leader; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges; 3.Society of Professional Rope Access Technician (SPRAT) Level III Certified.** *Joseph has experience with the inspection, rehabilitation, and design of many types of highway structures. His inspection experience includes NBI, element level, fracture critical, and in-depth inspections of both long and short-span bridges. He has completed inspections for structure types trusses, suspension, arches, and cable-stayed bridges; including seventeen different long-span Ohio River bridges. Joseph has experience with the use of non-destructive testing methods including magnetic particle, dye penetrant and ultrasonic.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
01/15-present	**Fracture-Critical Inspection Ohio River Bridges, Kentucky Transportation Cabinet.** ***Team Leader.*** An arms-length inspection of all fracture critical members and fatigue sensitive details was conducted for seventeen different Ohio River Bridges as part of six different contracts. Some of the bridges included: • US 25 Clay Wade Bailey Bridge @ Covington, KY Included repair plans • I 65 SB John F. Kennedy Bridge @ Louisville, KY • I 65 NB Abraham Lincoln Bridge @ Louisville, KY • US 27 Taylor Southgate Bridge @ Newport, KY Included repair plans • US 421 Milton Madison Bridge @ Milton, KY Included repair plans Structure types include cantilevered and continuous through truss bridges, cable stayed bridges, suspension bridges, steel multi-girder spans, and reinforced concrete beam spans. The inspections were performed using rope access, man-lifts, ***UBIUs*** and climbing techniques. Inspection reports were prepared using KYTC's TC 71-118 form and repair recommendations and plans were given for the bridges.

01/17-present	**Statewide Fracture-Critical Inspections, Kentucky Transportation Cabinet.** *Team Leader.* An arms-length inspection of all fracture critical members and fatigue sensitive details was conducted for thirteen different bridges as part of four different contracts. Some of the bridges included: • I 64 EB Bridge over Little Sandy River • I 64 WB Bridge over Little Sandy River • I 24 EB Bridge over Tennessee River • I 24 WB Bridge over Tennessee River • BG 9002 EB over Kentucky River • BG 9002 WB over Kentucky River Structure types included steel tied arch bridges, steel two-girder bridges, steel deck truss bridges and non-redundant steel bent caps.
1/22-present	**2022&2024 OSARC Bridge Inspection & Related Services, Mississippi Department of Transportation, Office of State Aid Road Construction, Greenwood, MS.** *Team Leader.* Bridge Inspector providing biannual bridge inspection of structures having steel superstructures. NSTM inspections were completed on two steel truss structures in Greenwood, MS. The inspections were completed utilizing structure climbing and rope access methods. Inspection reports were prepared using Bentley AssetWise.
05/20-present	**NDDOT Bridge Inspection & Load rating for LPA & Private Owned Bridges, North Dakota Department of Transportation.** *Team Leader.* Bridge Engineer/Inspection Team Leader, providing biannual bridge inspection and load rating services in 2020 and 2021 for privately owned bridges including both routine and fracture critical inspections and load rating data collection of steel trusses and multi-girder bridges. Inspections were completed in accordance with the latest edition of the AASHTO Manual for Bridge Evaluation, NDDOT Bridge Inspection Manual and reports completed using InspectX software.
01/16-present	**Statewide NBIS Safety Inspections, Kentucky Transportation Cabinet.** *Bridge Inspector.* NBIS Safety Inspections including collection of element level data as defined by the Specifications for the National Bridge Inventory, National Bridge Inspection Standards and the AASHTO Manual for Bridge Element Inspection have been conducted as assigned by KYTC. Inspection reports were prepared using AASHTOWARE Bridge Management software. AECOM and Palmer Engineering teamed together to complete over 2600 routine bridge inspections in KYTC districts including single or multi-span bridges and reinforced concrete box culverts.
01/22- 12/22	**2022 ODOT Fracture Critical Bridge Inspection, Ohio Department of Transportation.** *Team Leader.* Bridge Engineer/Inspection Team Leader, providing fracture critical bridge inspection services in 2022 for the US 50 westbound bridge over the Great Miami River. The bridge consists of four simply supported Pratt Truss spans. The inspection was performed using rope access methods, climbing techniques, and a man-lift. Inspections were completed in accordance with the latest edition of the AASHTO Manual for Bridge Evaluation and ODOT Bridge Inspection Manual.
01/23-12/23	**2023 Salem Rails to Trails Bridge Assessment, Virginia Department of Transportation, Botetourt and Craig Counties, VA.** *Qualified Team Leader.* Inspection of five railroad bridges on the former C&O Craig Valley Branch rail line in Botetourt and Craig County, VA. The bridges are being considered for conversion to pedestrian use as part of a larger rails to trails concept. Bridge types included steel thru truss spans, steel plate girder spans, and steel lattice girder spans. Hands on inspection was conducted of primary members and visual inspection of secondary members. Inspectors documented existing member sizes and deterioration necessary to develop load rating capacities. The inspections were performed using rope access and structure climbing techniques.

Firm	AECOM Technical Services, Inc.		
 **Allen D. Cantrell, PE *(MPR 4)*** Bridge Inspection Team Lead/ Unmanned Ariel Systems		Years of Relevant Experience with this Employer	6
		Years of Relevant Experience with Other Employer(s)	7
Degree(s) / Years / Specialization	BS / 2009 / Civil Engineering MS / 2013 / Civil Engineering		
Active Registration Number / State / Expiration Date	PE11400746 / IN / 7/31/2026 Additional active licenses: OH, KY		
Year Registered	2014	Discipline	Professional Engineer
Contract Role(s) / Brief Description of Responsibilities	**MPR 4. Bridge Inspection Team Lead/ Unmanned Ariel Systems; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges; 3.Society of Professional Rope Access Technician (SPRAT) Certified; 12. FAA Certified UAS Pilot.** *Allen is a licensed Professional Engineer in Kentucky, Indiana, and Ohio. He is also a certified Small Unmanned Aircraft System (sUAS) Pilot, a SPRAT Level 2 Rope Access Technician, and formerly an ADCI Air Dive Supervisor. He has completed multiple FHWA-NHI inspection related courses, first-aid, CPR, and emergency oxygen training. He also has multiple non-destructive testing certifications including Magnetic Particle Level II and Ultrasonic Longitudinal Level II with experience in the use of dye penetrant testing. His experience has included numerous climbing inspections of complex and long span structures, sUAS flights, and inspection dives in high current, low visibility at depths greater than 100 feet in state-owned waterways and for the U.S. Navy. He has experience with IMCA, ADCI, and OSHA diving related safety regulations.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
2019 - 2022	**Bridge Inspection & Related Services, Mississippi Department of Transportation, Office of State Aid Road Construction.** ***Project Engineer.*** Bridge Inspector providing biannual bridge inspection of structures having timber substructure and/or steel superstructures. Fracture critical inspections were completed on two steel truss structures. QA inspections were conducted to verify inspection findings and assessments on multiple bridges with steel superstructures and/or timber substructures.
2017-2023	**Fracture-Critical Inspection of Ohio River and Statewide Bridges, Kentucky Transportation Cabinet.** ***Qualified Team Leader.*** An arms-length inspection of all fracture critical members and fatigue sensitive details was conducted for 19 bridges throughout the state of Kentucky and 15 border bridges crossing the Ohio River. Structure types include cantilevered and continuous through truss bridges, a suspension bridge, steel tied arch bridges, cable stayed bridges, steel two-girder and multi-girder spans, steel deck truss spans, post-tensioned concrete bridges, concrete segmental box girder bridges and reinforced concrete beam spans. The inspections were performed using rope access, man-lifts, snooper trucks, and climbing techniques. An Unmanned Aerial System aided in the inspection of the stay cables, substructure units, and general photos. Inspection reports were prepared using KYTC's TC 71-118 form, repair recommendations and plans were given for the bridges, and rehabilitation design plans were developed for select structures.
2017- present	**Statewide NBIS Safety Inspections, Kentucky Transportation Cabinet, Statewide, KY.** ***Qualified Team Leader.*** Qualified Team Leader for 840 NBIS/SNBI Safety Inspections, including collection of element level data as defined by the Specifications for the National Bridge Inventory (SNBI) and the AASHTO Manual for Bridge Element Inspection. Inspections include collection of element level data, stream cross section data, and scour assessments as necessary. Structure types include single span and multi-span bridges as well as reinforced concrete box culverts. Inspection reports were prepared using AASHTOWARE Bridge Management (BrM) software and SNBI excel worksheets provided by KYTC.

2022 - present	**Bridging Kentucky, Kentucky Transportation Cabinet.** ***Project Engineer.*** Provided emergency bridge replacement design services including on-site structure and site evaluation and measurements for multiple impacted sites. Mr. Cantrell was the Pilot in Command (PIC) for sUAS operations performing aerial mapping of current conditions which provided immediate site information to aid survey and design in expedited bridge replacement projects.
2020 - present	**NDDOT Bridge Inspection & Load rating for LPA & Private Owned Bridges, North Dakota Department of Transportation.** ***Qualified Team Leader.*** Bridge Engineer/Inspection Team Leader providing biannual bridge inspection and load rating services in 2020 through 2024 for privately owned bridges including both routine and fracture critical inspections. Inspections were completed in accordance with the latest edition of the AASHTO Manual for Bridge Evaluation, NDDOT Bridge Inspection Manual and reports completed using InspectX software.

Firm	AECOM Technical Services, Inc.		
 **Ian R. McElhone, PE *(MPR 4)*** Bridge Inspection Team Lead		Years of Relevant Experience with this Employer	12
		Years of Relevant Experience with Other Employer(s)	0
Degree(s) / Years / Specialization	BS / 2012 / Structural MS / 2016/ Civil and Environmental Engineering		
Active Registration Number / State / Expiration Date	PE30790 / KY /06/30/2026 Additional active licenses: VA		
Year Registered	2015	Discipline	Professional Engineer
Contract Role(s) / Brief Description of Responsibilities	**MPR 4. Bridge Inspection Team Lead; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges; 3.Society of Professional Rope Access Technician (SPRAT) Certified.** *Ian is responsible for the analysis, design, details, rehabilitation, and project reports for all types of highway structures, including complex and long-span bridges. He has experience with in-depth visual inspection and NSTM inspection of both long and shortspan bridges, including the use of non-destructive testing methods. Ian is a certified FHWA Bridge Inspection Team Leader and Society of Professional Rope Access Technicians (SPRAT) Level II Technician.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
2014-2023	**KYTC, Fracture Critical Inspection of Ohio River Bridges, OH.** *QTL.* An arms-length inspection of fracture critical members and fatigue sensitive details was conducted on eighteen inspections of thirteen different Ohio River Bridges as part of four separate contracts. The inspections were performed using rope access, man-lifts, and climbing techniques. Inspection reports were prepared using KYTC's TC 71-118 form and repair recommendations and plans were given for the bridges.
2018- present	**West Virginia Department of Transportation, CPL Thomas Bennett Memorial Bridge Six Year Inspection Program.** *Inspector in Charge.* The 2018 inspection included an in-depth routine inspection of the structure, including hands on inspection of truss and all piers. The bridge consists of nine spans, and three span continuous deck truss, three continuous deck girder spans and three continuous deck stringer spans with an overall length of 1,550 feet.
2019-2023	**City of Roanoke Transportation Structure Inspections.** *QTL.* AECOM is providing services to the City of Roanoke for inspection of bridges, culverts, and overhead sign structures in compliance with federal and state requirements. In addition, AECOM is supporting the City's management of the structure inventory by preparing repair plans and load rating analysis, and long-range planning for structure inventory management.

Firm	AECOM Technical Services, Inc.		
Craig R. Klusman, PE, SE *(MPR 4)* Bridge Inspection Team Lead		Years of Relevant Experience with this Employer	24
		Years of Relevant Experience with Other Employer(s)	1
Degree(s) / Years / Specialization	BS / 1997 / Civil Engineering MS / 1998 / Structural Engineering		
Active Registration Number / State / Expiration Date	PE10606330 / IN / 7/31/2026 Additional active licenses: KY, MS, OH, OK		
Year Registered	2006	Discipline	Professional Engineer
Contract Role(s) / Brief Description of Responsibilities	**MPR 4. Bridge Inspection Team Lead; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges.** *Associate Vice President and Senior Structural Manager with almost 25 years of experience. Manager of the structural engineering group (transportation) in the Louisville office that is responsible for bridge design, bridge rehabilitation design, and long-span bridge inspections. Craig is proficient in project management, business development, structural analysis and design, construction assistance, bridge rehabilitation, and inspection for all types of transportation structures, including complex and long span bridges*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
2022-2023	**Fracture-Critical Inspection of five Ohio River Bridges, Kentucky Transportation Cabinet.** ***Project Manager.*** An arms-length inspection of all fracture critical members and fatigue sensitive details was conducted for the following Ohio River Bridges: • I 275E Combs Hehl Bridge @ Fort Thomas, KY • I 275W Combs Hehl Bridge @ Fort Thomas, KY • KY 56 Earle C. Clements Bridge @ Shawneetown, IL 2023 • US 231 William H. Natcher Bridge @ Owensboro, KY 2023 • US 68 William H. Harsha Bridge @ Maysville, KY 2023 Structure types include continuous through truss bridges, cable stayed bridges, steel two-girder and multi-girder spans, steel deck truss spans, and reinforced concrete beam spans. The inspections were performed using rope access, man-lifts, and climbing techniques. Inspection reports were prepared and repair recommendations and plans were given for the bridges.

2021-2022	**Statewide Fracture-Critical Inspections, Kentucky Transportation Cabinet.** *Team Leader, Quality Control.* An arms-length inspection of all fracture critical members and fatigue sensitive details was conducted for the following bridges: • I 64 EB Bridge over Little Sandy River • I 64 WB Bridge over Little Sandy River • I 24 EB Bridge over Tennessee River • I 24 WB Bridge over Tennessee River • BG 9002 EB over Kentucky River Included repair plans • BG 9002 WB over Kentucky River Included repair plans Structure types include steel tied arch bridges, steel multi-girder bridges, and steel two-girder bridges. The inspections were performed using rope access, climbing techniques, man lifts, and snooper trucks. Inspection reports were prepared using KYTC's TC 71-118 form and repair recommendations were given for the bridges.
2020-2021	**Fracture-Critical Inspection of five Ohio River Bridges, Kentucky Transportation Cabinet.** *Project Manager.* An arms-length inspection of all fracture critical members and fatigue sensitive details was conducted for the following Ohio River Bridges: • US 25 Clay Wade Bailey Bridge @ Covington, KY (includes repairs plans) • I 65 SB John F Kennedy Bridge @ Louisville, KY • I 65 NB Abraham Lincoln Bridge @ Louisville, KY • US 27 Taylor Southgate Bridge @ Newport, KY (includes repair plans) • US 421 Milton Madison Bridge @ Milton, KY (includes repair plans) Structure types include cantilevered and continuous through truss bridges, cable stayed bridge, steel multi-girder spans, and reinforced concrete beam spans. The inspections were performed using rope access, man-lifts, and climbing techniques. Inspection reports were prepared using KYTC's TC 71-118 form and repair recommendations and plans were given for the bridges.
2020-2021	**NDDOT Bridge Inspection & Load rating for LPA & Private Owned Bridges, North Dakota Department of Transportation.** *Team Leader.* Bridge Engineer/Inspection Team Leader, providing biannual bridge inspection and load rating services in 2020 and 2021 for privately owned bridges including both routine and fracture critical inspections and load rating data collection of steel trusses and multi-girder bridges. Inspections were completed in accordance with the latest edition of the AASHTO Manual for Bridge Evaluation, NDDOT Bridge Inspection Manual and reports completed using InspectX software.
2018-2019	**Fracture-Critical Inspection of Five Ohio River Bridges, Kentucky Transportation Cabinet.** *Project Manager.* An arms-length inspection of fracture critical members and fatigue sensitive details was conducted for the following Ohio River Bridges: • KY 17 John A. Roebling Bridge at Covington, KY (Suspension) • US 25 Clay Wade Bailey Bridge at Covington, KY (Truss) • US 27 Taylor Southgate Bridge @ Newport, KY (Truss) • US 23S Ashland 12th Street Bridge @ Ashland, KY (Truss) • US 23 Ashland 13th Street Bridge @ Ashland, KY (Truss) Structure types include cantilevered and continuous through truss spans, single span truss spans, steel multi-girder spans, suspension bridge, and prestressed concrete beam spans. The inspections were performed using rope access, man-lifts, snooper trucks, and climbing techniques. Inspection reports were prepared using KYTC's TC 71-118 form and repair recommendations and plans were given for the bridges.

Firm	AECOM Technical Services, Inc.		
April Yorkonis, EI *(MPR 4)* Bridge Inspection Team Leader		Years of Relevant Experience with this Employer	24
		Years of Relevant Experience with Other Employer(s)	0
Degree(s) / Years / Specialization	MSCE / 2005 / Civil Engineering BSCE / 2000 / Civil Engineering		
Active Registration Number / State / Expiration Date	N/A		
Year Registered	2004	Discipline	Civil Engineer Intern, DE
Contract Role(s) / Brief Description of Responsibilities	**MPR 4. Bridge Inspection Team Lead; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges.** *April will be one of AECOM's Bridge Inspection Team Leaders for this contract. She has been a Certified Bridge Safety Inspector since 2002. She has utilized ASD, LFD, and LRFD design methodologies and is proficient in numerous computer programs as well as structural design programs such as STAAD and BSDI. She has served as a Team Leader for bridge inspection which includes scheduling teams and equipment, developing maintenance needs and creating technical reports. Her experience also includes emergency response inspections for earthquakes, flood events, and bridge impact damage. This includes evaluation of damaged structures for revised load capacity analysis and posting. Training: Bridge Safety Inspection Training and Certification, 2002, PA; Bridge Safety Inspection Training Program Refresher Courses thru 2022, PA; Bridge Scour Evaluation Training and Certification, 2005; Fracture Critical Inspection Techniques for Steel Bridges Training and Certification, 2005.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
05/21 - present	**PennDOT District 6-0, Agreement E05073, NBIS Inspection of 413 State Owned Bridges in Philadelphia County, PA.** ***Bridge Inspection Team Leader*** for the 2-cycle contract focusing on structures within the high ADT I-95, US Route 1, and I-76 SR 309 corridors. Some of the bridges, particularly on I-95 where several viaducts extend over one mile in length. The assigned bridges typically require specialized access, traffic control, railroad coordination, non-destructive testing, and mechanical and electrical inspection of movable bridges. Due to the high traffic volume roadways, construction projects, and number of railroad crossings, there is an elevated level of coordination of planned inspection activities required. This demanding project included fracture critical inspections, in-depth inspections, routine NBIS inspections, interim inspections, emergency on-call services, element inventory and element level inspections.
01/21 - present	**PennDOT District 4-0, Agreement E04957, NBIS Inspection of Large / Complex Bridges, PA.** ***Bridge Inspection Team Leader f***or the 3-cycle bridge inspection and load rating contract of 160 assigned structures in D4-0. The assigned bridges are non-fracture critical large and complex requiring specialized access, traffic control, railroad coordination, and non-destructive testing. Project included in-depth inspections, routine NBIS inspections, interim inspections, emergency on-call services, load ratings analyses, element inventory and element level inspections.

05/12 - 05/19	**PennDOT District 5-0, Safety Inspections of State Owned Bridges, Monroe, Carbon and Schuylkill Counties, PA.** *Bridge Inspection Team Leader* for this three-cycle contract. Inspected all aspects of the bridge including safety features, roadway conditions, deck, superstructure, substructure and scourability. The inspections sometimes required the use of special equipment and traffic control. Performed post-flood emergency response inspections required after significant flooding events. In addition to inspection, also responsible for organizing and compiling all field notes, photographs and maintenance items for the preparation of the technical forms and reports and recommend load rating analysis where necessary. Handled all notifications and correspondence to the local owner regarding priority maintenance, sign installations, tracking the progress of repairs to the structure and updating the pertinent fields in BMS2.
05/17-05/22	**PennDOT District 6-0, Agreement E03796, NBIS Inspection of 436 State Owned Bridges in Montgomery County, PA.** *Bridge Inspection Team Leader f*or the 2-cycle contract focusing on structures within the high ADT I-476, SR 422 and SR 309 corridors. Inspections were often restricted o a 9am to 3pm window to minimize impacts to traffic. Project included routine NBIS, interim, emergency on-call services, and CoRe element level inspections.
04/12-12/21	**Inventory Inspection of the Charles W. Cullen Bridge at the Indian River Inlet, DelDOT, Rehoboth, DE.** *Bridge Inspection Team Leader* for the 2012 Inventory Inspection of the 2,600 ft. long precast, cast-in-place, post-tensioned concrete structure with cable-stayed main span crossing the Indian River Inlet. The bridge consists of a total of eight precast Bulb-T girder approach spans, each 106'-3" in length and a three span concrete cable-stayed structure with a main span of 950 feet and side spans of 400 feet. The inspection efforts included a close-up, hands-on inspection of all members of the structure to document the baseline conditions. The inventory inspection verified the safety of the bridge, in accordance with the NBIS and DelDOT standards. The inspection efforts culminated with the production of a full bridge inspection report including NBIS inspection forms and supporting documents. Responsibilities included the development of bridge specific access and safety plans; field coordination; scheduling of inspection teams, equipment; coordination with the contractor; and management of the budget and report development. Access for the inspection included industrial rope access climbing, aerial boom lifts and via the contractor's work platform.
04/12 – 12/12	**Delaware Department of Transportation (DelDOT), Inventory Inspection of the Indian River Bridge, DE.** *Bridge Inspection Team Leader* for the 2012 Inventory Inspection of the Indian River Cable Stat Bridge. The inspection efforts included a close-up, hands-on inspection of all members of the structure to document the baseline conditions. The inventory inspection verified the safety of the bridge, in accordance with NBIS and DelDOT standards. It also serves to provide the required Bridge Inventory Data (BID) of the as-built structure and the inspection efforts culminated with the production of a full bridge inspection report including NBIS inspection forms and supporting documents.
04/08 – 03/12	**USACE, Philadelphia District, Indefinite Delivery Contract for A/E Services to Support Civil Works, PA.** *Bridge Inspection Team Leader.* Work included the biennial inspection of the Reedy Pt., Summit, Chesapeake City, St. Georges and William V. Roth, Jr. (SR 1) Bridges spanning the C&D Canal. Additional assignments included technical design reviews and superstructure designs. Biennial inspection responsibilities included development of bridge specific access and safety plans; field coordination; scheduling of inspection teams, equipment and MPT; and management of the budget and report development including SI&A form update.

Firm	AECOM Technical Services, Inc.		
Dave Raffensperger *(MPR 4)* Bridge Inspection Team Leader		Years of Relevant Experience with this Employer	24
		Years of Relevant Experience with Other Employer(s)	0
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	**MPR 4. Bridge Inspection Team Lead; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges; 3.Society of Professional Rope Access Technician (SPRAT) Certified.** *Dave will be one of AECOM's Bridge Inspection Team Leaders for this contract. He has more than 24 years of experience in the inspection of bridge structures. He has been a Certified Bridge Safety Inspector since 2002 and SPRAT-certified rope access worker since 2012. He has performed bridge inspection services for more than 2,000 structures in seven states, Puerto Rico, and in the province of Saskatchewan, Canada. Training: Bridge Safety Inspector Training Course; 2002, PA; Bridge Safety Inspection Training Refresher Courses; 2004 through 2020, PA; SPRAT Certified Rope Access Training, 2012; SPRAT Certified Rope Access Refresher, 2022; NHI Course No. 130078 - Fracture Critical Insp. Techniques for Steel Bridges; 2005.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
12/12-06/18	**Louisiana Department of Transportation and Development (LADOTD), In-Depth Inspection of Complex Structures, Statewide, LA.** ***Inspection Team Leader f***or the four-year retainer contract to perform in-depth bridge inspections of assigned complex structures. Assigned bridges include the Gramercy Bridge (2013), US 190 EB and WB Structures over the Atchafalaya River (2014), I-210 Lake Charles Bridge (2014), Louisa Bridge (2015), Vicksburg Bridge (2015), Mississippi River Gulf Outlet Bridge (2015), Miller's Bluff Bridge (2016), the Greater New Orleans Bridge (2016), LA 182 Morgan City Bridge (2017), and LA 315 Dularge Bridge (2017). Assigned work also included the design to reset the rocker nest truss bearings of the US 190 WB Structure over the Atchafalaya River.
04/22 – 04/24	**Delaware River Port Authority (DRPA), Commodore Barry Bridge over Delaware River 2022 Biennial Inspection, PA and NJ.** ***Bridge Inspection Team Leader*** for the biennial inspection that included a close visual "hands-on" inspection of all NSTM and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans. This project included ultrasonic testing of the pins and electro-slag A514 steel welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. The project also included the inspection of the sign structures, the US130 over pass structures and the toll and maintenance buildings. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.
04/20 - 12/21	**Delaware River Port Authority (DRPA), Betsy Ross Bridge over Delaware River 2020 Biennial Inspection, PA and NJ.** ***Inspection Team Leader f***or the biennial inspection that included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the main truss bridge, the approach truss spans, the ***approach girder spans, and numerous approach structures.*** This project included an underwater inspection of the channel piers and inspection and mapping via an unmanned aerial vehicle (UAV). The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.

04/18 - 12/18	**Delaware River Port Authority (DRPA), Commodore Barry Bridge over Delaware River 2018 Biennial Inspection, PA and NJ.** *Inspection Team Leader f*or the biennial inspection that included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans. This project included UT of the pins and electro-slag welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.
04/14 - 12/14	**Delaware River Port Authority (DRPA), Commodore Barry Bridge over Delaware River 2014 Biennial Inspection, PA and NJ.** *Inspection Team Leader f*or the biennial inspection that included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans. This project included ultrasonic testing of the pins and electro-slag welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. A final report was prepared that included a description of the findings, recommendations for repairs, SI&A, Pontis and BMS updates.
08/18-07/19	**Mississippi Department of Transportation, Routine/Fracture Critical Biennial Inspection of the US 82 over Mississippi River, Greenville, MS.** *Bridge Inspection Team Leader* for the 2018 biennial inspection of the US 82 cable-stay ed bridge spanning the Mississippi River Bridge connecting Mississippi and Arkansas. The bridge is 2.6 miles total in length from abutment to abutment. Responsibilities included performing a field audit of the inspection activities and technical review of the bridge inspection report. Inspection access included aerial boom lifts, under bridge inspection vehicles (UBIV), industrial rope access climbing and via an unmanned aerial vehicle (UAV). The UAV was a DJI Matrice 210 RTK which was utilized to perform a visual inspection of the cable sheathing.
04/12-12/21	**Inventory Inspection of the Charles W. Cullen Bridge at the Indian River Inlet, DelDOT, Rehoboth, DE.** *Bridge Inspector* for the 2012 Inventory Inspection of the 2,600 ft. long precast, cast-in-place, post-tensioned concrete structure with cable-stayed main span crossing the Indian River Inlet. The bridge consists of a total of eight precast Bulb-T girder approach spans, each 106'-3" in length and a three span concrete cable-stayed structure with a main span of 950 feet and side spans of 400 feet. The inspection efforts included a close-up, hands-on inspection of all members of the structure to document the baseline conditions. The inventory inspection verified the safety of the bridge, in accordance with the NBIS and DelDOT standards. The inspection efforts culminated with the production of a full bridge inspection report including NBIS inspection forms and supporting documents. Responsibilities included the development of bridge specific access and safety plans; field coordination; scheduling of inspection teams, equipment; coordination with the contractor; and management of the budget and report development. Access for the inspection included industrial rope access climbing, aerial boom lifts and via the contractor's work platform.

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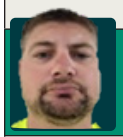
 **Bryan Gatlin, EIT *(MPR 4)*** Bridge Inspection Team Lead		Years of Relevant Experience with this Employer	7
		Years of Relevant Experience with Other Employer(s)	0
Degree(s) / Years / Specialization	BS / 2007 / Civil Engineering		
Active Registration Number / State / Expiration Date	PE035085 / PA / 12/31/2025		
Year Registered	2024	Discipline	Professional Engineer
Contract Role(s) / Brief Description of Responsibilities	**MPR 4. Bridge Inspection Team Lead; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/ NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges.** *Bryan serves AECOM as a bridge engineer in the Ridgeland, MS office. He has experience in bridge design, bridge inspection, and load rating. Mr. Gatlin has experience in various software including Autodesk, MicroStation, LEAP Bridge, AASHTOWare and CSiBridge.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
02/23- present	**MDOT Box Girder Bridges In-Depth, NBI, and Element Level Inspections.** *Inspection Team Leader.* MDOT hired AECOM to perform NBI and Element Level Inspections of the reinforced concrete box girder bridges including In-Depth inspection of the dapped end details. Mr. Gatlin served as a Bridge Inspection Team Leader on the project and participated in report preparation and planning for the project
01/22- present	**I-110 over Biloxi Back Bay Movable Bridge In-Depth Inspection.** *Team Leader.* MDOT hired AECOM to perform the In-Depth inspection of I-110 over Biloxi Back Bay. This bridge includes a twin double leaf bascule main span. Mr. Gatlin was an Inspection Team Leader on the project and assisted with preparation of the Approach span portions of the report.
02/19-03/20	**Statewide Bridge Deck Scanning and Visual Surveys.** *Inspector.* MDOT hired AECOM to perform Deck Scanning and Visual Surveys for 34 bridges in Mississippi spread across 2 projects. Mr. Gatlin was responsible for performing Visual Surveys of the bridge deck undersides and drafting the defects. The information collected during these projects is used for deck rehabilitation estimates for planning purposes and resource allocation.
01/20-11/21	**MDOT I-20EB to I-55NB Inspection and Analysis.** *Inspection Team Leader.* MDOT hired AECOM to perform a field inspection, including accessing the interior of the box girders and providing an in-depth inspection of the dapped end girder details, on this 17-Span, multi-celled box girder bridge. Mr. Gatlin served as a Bridge Inspection Team Leader and participated in report preparation for the project.
01/18- present	**MDOT Greenville Cable-stayed Inspection.** *Inspector.* MDOT hired AECOM to perform Fracture Critical and Routine Element Inspections of the cable-stayed bridge on US 82 over the Mississippi River. The scope of this inspection also includes the assistance of a UAV. Mr. Gatlin was responsible for the inspection of the deck and assisted in the completion of the inspection report.
01/22- present	**MDOT Parking Garage Inspection.** *Inspector.* MDOT hired AECOM to perform a structural evaluation on the MDOT administration building parking garage. The evaluation consists of hands-on inspection and coring of concrete. The evaluation shall determine the extent of existing defects of the parking garage, and conceptual repair recommendations. Mr. Gatlin was responsible for performing the hands-on field investigation.
01/19-present	**SR 3 in Tate County Phase-B Bridge Design.** *Bridge Engineer.* MDOT hired AECOM to design a post-tension concrete girder bridge, and a pre-stressed concrete girder bridge. Mr. Gatlin is assisting with the design of the bridges.
01/22- present	**SR 63 in Jackson County Phase-B Bearings Design.** *Bridge Engineer.* MDOT hired AECOM to perform a Phase B rehabilitation design for SR 63 over the Escatawpa River. Mr. Gatlin developed the final set of plans.

Firm	AECOM Technical Services, Inc.		
Daniel Boyd, PE, CBI *(MPR 5)* Bridge Inspector/ Bridge Load Rating and Analysis		Years of Relevant Experience with this Employer	5
		Years of Relevant Experience with Other Employer(s)	13
Degree(s) / Years / Specialization	BS/2006/Civil Engineering		
Active Registration Number / State / Expiration Date	36728/LA/03.31.26 Additional active license: MS, TX		
Year Registered	2011	Discipline	Civil Engineer
Contract Role(s) / Brief Description of Responsibilities	**MPR 5. Bridge Inspection Team Lead; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector.** *Daniel has more than 17 years of structural engineering experience in the transportation industry. He most recently was a part of two design build projects, serving as a structural Independent Design Check Engineer for two prestressed bridge packages, and as structural task lead for the design of overhead traffic signs for LBJ East in Dallas, TX, and as bridge design engineer and Independent Design Check engineer for Oak Hill Parkway in Austin, TX. His technical experience also includes steel girder bridge design, precast/prestressed concrete girder design, structural steel design, structural concrete design, and deep and shallow foundations design. He has a thorough working knowledge of AASHTO and Louisiana DOTD Standards, as well as ACI, AISC, and ASCE. He has experience in both new construction and design projects, as well as retrofit and/or expansion projects requiring modifications to existing structures, bridges, and foundations to meet current engineering codes and industry best practices. Daniel is also a certified bridge inspector.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
01/20 – present	**TxDOT, LBJ East Design Build Project, Dallas, TX.** ***Structural Task Lead and Engineer of Record.*** Completed detailed Independent Design Checks (IDC) for two prestressed bridge packages in the project. IDC analyses were performed for entirety of each bridge structure, from geometry, superstructure design, substructure design, and foundation design to verify the validity of each design. Structural Task Leader and engineer of record for the design of Overhead Sign Structures, consisting of 137 custom Overhead Sign Bridge (OSB) Structures and Cantilever Overhead Sign Structures (COSS), as well as ITS and Tolling equipment structures. The structure inventory included a combination of both ground mounted and bridge mounted applications. Design included analysis of the steel trusses for the OSB and COSS structures, analysis and design of custom aesthetic concrete support columns for the truss structures, and deep foundations for each structure. Served as structural task leader during Design Services During Construction (DSDC) phase to answer RFI's, resolve field issues, review shop drawings, plan and schedule drawing and/or calculation revisions, etc.
03/21 – present	**TxDOT, Oak Hill Parkway, Austin, TX.** ***Design Engineer.*** Design engineer for one bridge team, providing analysis and design for multiple substructures and foundations, Independent Design Check (IDC) engineer for the design of three prestressed bridge packages, and all IDC engineer for all Overhead Sign Structures for the project. IDC analyses were performed for entirety of each bridge structure, from geometry, superstructure design, substructure design, and foundation design to verify the validity of each design. Provided engineering support during Design Services During Construction (DSDC) phase to answer RFI's, resolve field issues, review shop drawings, etc.
10/20 – 02/21	**TxDOT, IH 820 SE Connector Design-Build Project, Fort Worth, TX.** ***Structural Design and QA/QC.*** Performed preliminary structural design for multiple substructure and foundation arrangements, including inverted-tee bents, multi-column bents, hammer-head bents, and the foundations for each of these, as part of the preliminary design phase of a large design-build project. Also performed QA/QC on numerous bridge calculations, and detailed plan reviews on bridge plan drawings.

03/21 – 09/21	**LADOTD (SPN H.004273.5), I–49, Connector, Lafayette, LA.** *Structural Review.* Performed a review of I–49 mainline viaduct layouts for the three different structural options being presented to LADOTD for selection. Performing reviews and updating structural quantities and costs to reflect current design layouts and current bid pricing to ensure consistency across the three structural options.
04/20 – 11/20	**Port of Gulfport, Port of Gulfport Connector, Gulfport, MS.** *Structures Discipline Leader.* Performed preliminary structural design for prestressed concrete girders and steel plate girder superstructures, preliminary substructure design, and geometric design for a new bridge structure on 30th Ave. spanning Hwy. 90 providing direct trucking access into the Port of Gulfport.
10/19 – 12/20	**Coastal Protection and Restoration Authority, LA 23 Bridge over Mid-Barataria Sediment Diversion, Plaquemines Parish, LA.** *Structural Engineer.* Assisted in the Design Plans for the new bridge and roadway structure over the new sediment diversion. The project consists of a new concrete precast girder bridge, approximately 2,200 feet in length, and the connecting asphalt roadway. Provided calculation and plans peer reviews and QA/QC.
10/06 – 08/11	**LADOTD, US 71/165 Fort Buhlow Bridge/KCS Railroad Overpass, Alexandria, LA.** *Structural Design Engineer.* Designed main river spans consisting of two 3-span units (one each direction) with 300'-400'-300' steel plate girder spans, and multiple steel simple spans greater than 200' crossing river levees. Designed all aspects and components of the steel plate girder bridge units, including diaphragms, bolted splices, bearing, stiffeners, etc. Also performed analysis and design of prestressed concrete girders, concrete bridge deck and columns, pile bents and piles, and performed peer review on other components of the project. Collaborated with steel fabricator to review/approve shop drawings and RFI's.
01/07 – 12/07	**City-Parish of East Baton Rouge, Highland Road (LA 42) Improvements (Perkins to Airline), Baton Rouge, LA.** *Civil/Structural Design Engineer.* Performed structural analysis on multiple aspects of project. Design included concrete bridge deck, guard rails, analysis and design of prestressed quad beam concrete girders, girder bearing design, and prestressed concrete piles and concrete bents. Also performed calculation reviews on multiple aspects of project.

Firm	**AECOM Technical Services, Inc.**		
 **Greg Bennett *(MPR 5)*** Bridge Inspector		Years of Relevant Experience with this Employer	10
		Years of Relevant Experience with Other Employer(s)	4
Degree(s) / Years / Specialization	BS / 2008 / Civil Engineering		
Active Registration Number / State / Expiration Date	N/A		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	**MPR 5. Bridge Inspector; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges.** *Greg will be one of AECOM's Bridge Inspection Team Leaders for this contract. He has more than 14 years of experience in the inspection of bridge structures. He has been a Certified Bridge Safety Inspector since 2014. He has performed bridge inspection services for more than 2,000 structures. Training: Bridge Safety Inspector Training Course; 2014, PA; Bridge Safety Inspection Training Refresher Courses; 2016 through 2022; NHI Course No. 130078 - Fracture Critical Insp. Techniques for Steel Bridges; 2021.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
12/12-06/18	**Louisiana Department of Transportation and Development (LADOTD), In-Depth Inspection of Complex Structures, Statewide, LA.** *Inspection Team Leader* for the four-year retainer contract to perform in-depth bridge inspections of assigned complex structures. Assigned bridges include the Gramercy Bridge (2013), US 190 EB and WB Structures over the Atchafalaya River (2014), I-210 Lake Charles Bridge (2014), Louisa Bridge (2015), Vicksburg Bridge (2015), Mississippi River Gulf Outlet Bridge (2015), Miller's Bluff Bridge (2016), the Greater New Orleans Bridge (2016), LA 182 Morgan City Bridge (2017), and LA 315 Dularge Bridge (2017). Assigned work also included the design to reset the rocker nest truss bearings of the US 190 WB Structure over the Atchafalaya River.
04/22 – 04/24	**Delaware River Port Authority (DRPA), Commodore Barry Bridge over Delaware River 2022 Biennial Inspection, PA and NJ.** *Bridge Inspection Team Leader* for the biennial inspection that included a close visual "hands-on" inspection of all NSTM and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans. This project included ultrasonic testing of the pins and electro-slag A514 steel welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. The project also included the inspection of the sign structures, the US130 over pass structures and the toll and maintenance buildings. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.
04/18- 06/18	**Delaware River Port Authority, 2018 Commodore Barry Bridge over Delaware River Biennial Inspection, Chester, NJ.** *Assistant team leader* during the 2014 biennial inspection of the Commodore Barry Bridge. This bridge spans the Delaware River from New Jersey to Pennsylvania. The three main spans consist of an electroslag welded cantilevered through truss measuring 3,288' and 77' wide. I assisted with the inspection of the through truss according to National Bridge Inspection Standards. Total bridge length is 13,912' long.
04/16 - 07/16	**Delaware River Port Authority, Betsy Ross Bridge over Delaware River 2016 Biennial Bridge Inspections, Philadelphia, PA.** *Assistant team leader* during the 2016 biennial inspection of the Betsy Ross Bridge. This bridge spans the Delaware River from New Jersey to Pennsylvania. The main span consists of a cantilevered three span, bolted through truss measuring 103' wide between trusses and consisting of a 729' main span and two 445' end spans. Total bridge length is 8481' long. I assisted withthe inspection of the approach spans, deck trusses, through truss, and substructure units.

05/14 - 07/14	**Delaware River Port Authority, 2014 Commodore Barry Bridge over Delaware River Biennial Inspection, Chester, NJ.** *Assistant team leader* during the 2014 biennial inspection of the Commodore Barry Bridge. This bridge spans the Delaware River from New Jersey to Pennsylvania. The three main spans consist of an electroslag welded cantilevered through truss measuring 3,288' and 77' wide. I assisted with the inspection of the substructure units, approach spans, and through truss according to National Bridge Inspection Standards. Total bridge length is 13,912' long.
05/21 - present	**PennDOT District 6-0, Agreement E05073, NBIS Inspection of 413 State Owned Bridges in Philadelphia County, PA.** *Bridge Inspection Team Leader f*or the 2-cycle contract focusing on structures within the high ADT I-95, US Route 1, and I-76 SR 309 corridors. Some of the bridges, particularly on I-95 where several viaducts extend over one mile in length. The assigned bridges typically require specialized access, traffic control, railroad coordination, non-destructive testing, and mechanical and electrical inspection of movable bridges. Due to the high traffic volume roadways, construction projects, and number of railroad crossings, there is an elevated level of coordination of planned inspection activities required. This demanding project included fracture critical inspections, in-depth inspections, routine NBIS inspections, interim inspections, emergency on-call services, element inventory and element level inspections.
01/21 - present	**PennDOT District 4-0, Agreement E04957, NBIS Inspection of Large / Complex Bridges, PA.** *Bridge Inspection Team Leader f*or the 3-cycle bridge inspection and load rating contract of 160 assigned structures in D4-0. The assigned bridges are non-fracture critical large and complex requiring specialized access, traffic control, railroad coordination, and non-destructive testing. Project included in-depth inspections, routine NBIS inspections, interim inspections, emergency on-call services, load ratings analyses, element inventory and element level inspections.
10/15 - 10/19	**Pennsylvania Department of Transportation Central Office, Bucks County National Bridge Inspection Standards, Philadelphia, PA.** *Team leader* while performing interim and biennial inspections for 443 Bucks County bridges My responsibilities included planning mobilization for field work, inputting inspection data into the Department's Bridge Management System – 2 (BMS2), writing reports and writing repair recommendations ac*cording to PennDOT and the National Bridge Inspection Standards.* The types of bridges inspected under this assignment include through truss, reinforced concrete, prestressed, post- tensioned concrete, steel girder, plate girder and reinforced concrete open spandrel arch bridges. All inspections of fracture critical bridges included the review and implementation of a fracture critical plan and 100% hands-on inspection for the full length of the fracture critical member.

Firm	**AECOM Technical Services, Inc.**		
 **Alexandra Gotta, EI *(MPR 5)*** Bridge Inspection Team Leader		Years of Relevant Experience with this Employer	1
		Years of Relevant Experience with Other Employer(s)	6
Degree(s) / Years / Specialization	BS / 2013 / Civil Engineering		
Active Registration Number / State / Expiration Date	N/A		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	**MPR 5. Bridge Inspector; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges** *Alex will be one of AECOM's Bridge Inspection Team Leaders for this contract. She has been a Certified Bridge Safety Inspector since 2014. Training: Bridge Safety Inspection Training Course, PennDOT, 2014. Bridge Safety Inspection Training Refresher Courses; 2023; NHI Course No. 130078 - Fracture Critical Insp. Techniques for Steel Bridges; 2014*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
04/24 – present	**Delaware River Port Authority, Betsy Ross Bridge over Delaware River 2024 Biennial Bridge Inspections, Philadelphia, PA.** *Bridge Inspection Team Leader.* This bridge spans the Delaware River from New Jersey to Pennsylvania. The main span consists of a cantilevered three span, bolted through truss measuring 103' wide between trusses and consisting of a 729' main span and two 445' end spans. Total bridge length is 8481' long. I assisted with the inspection of the approach spans, deck trusses, through truss, and substructure units
05/21 - present	**PennDOT District 6-0, Agreement E05073, NBIS Inspection of 413 State Owned Bridges in Philadelphia County, PA.** *Bridge Inspection Team Leader.* contract focusing on structures within the high ADT I-95, I-76, and SR 1 corridors. Inspections were often restricted to a 9am to 3pm window to minimize impacts to traffic. Included the biennial inspection of the double deck through truss – Girard Point Bridge – carrying I-95 over the Schuylkill River. Complex traffic control, access equipment and railroad permitting was required. Inspection work was completed in accordance with PennDOT's Bridge Inspection Procedures and Policies Manual, NBIS, FHWA, and AASHTO. Project included routine NBIS, interim, emergency on-call services, and element level inspections.
09/20 - present	**Puerto Rico Highway and Transportation Authority (PRHTA), Safety Inspection of In-Service Bridges in Puerto Rico in Compliance with NBIS, Puerto Rico.** *Bridge Inspection Team Leader.* The project consists of regular task order assignments to perform bridge inspections of any of the more than 2300 bridges in the Commonwealth of Puerto Rico. Currently, AECOM has completed nearly 1000 inspections including routine, fracture critical and special inspections. A wide variety of bridge types were inspected, including reinforced concrete, prestressed concrete, segmental concrete, cable stay, steel multi-girder, NSTM girder/floorbeam/stringer, trusses, Acrow trusses, box culverts and pipe culverts. Some bridges required the use of traffic control for safe work zones and access equipment to gain hands-on access of the non-redundant steel tension members (NSTM). This contract included tunnel inspections (NTIS) of three tunnels for one of the task orders. Other task orders included using drones (unmanned aerial systems) to inspect the Antirantado Jesús Izcoa Moure cable stayed bridge in Naranjito and a twin-span, high-level, NSTM bridge carrying PR Route 52. Reports were prepared and delivered for each inspection including condition assessments and element level reporting.

Firm	AECOM Technical Services, Inc.		
Gabe Umholtz, EI *(MPR 5)* Bridge Inspection Team Leader		Years of Relevant Experience with this Employer	2
		Years of Relevant Experience with Other Employer(s)	2
Degree(s) / Years / Specialization	BS / 2019 / Civil Engineering		
Active Registration Number / State / Expiration Date	N/A		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	**MPR 5. Bridge Inspector; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges.** *Gabe will be one of AECOM's Bridge Inspection Team Leaders for this contract. He has been a Certified Bridge Safety Inspector since 2021. Training: Bridge Safety Inspection Training Course, PennDOT, 2021. Bridge Safety Inspection Training Refresher Courses; 2023.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
02/23 - present	**Louisiana Department of Transportation and Development (LADOTD), IDIQ for Bridge Load Rating Services, Statewide, LA.** *Load Rating Engineer* for this present load rating analysis of 140 bridges throughout Louisiana, including superstructure and substructure analysis; developed proprietary calculation tools for influence-based analysis of bent caps and timber piles; provided recommendations for mitigation and repair of deficient structures.
04/22 – 04/24	**Delaware River Port Authority (DRPA), Commodore Barry Bridge over Delaware River 2022 Biennial Inspection, PA and NJ.** *Bridge Inspection Team Leader* for the biennial inspection that included a close visual "hands-on" inspection of all NSTM and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans. This project included ultrasonic testing of the pins and electro-slag A514 steel welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. The project also included the inspection of the sign structures, the US130 over pass structures and the toll and maintenance buildings. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.
05/21 - present	**PennDOT District 6-0, Agreement E05073, NBIS Inspection of 413 State Owned Bridges in Philadelphia County, PA.** *Bridge Inspection Team Leader f*or the 2-cycle contract focusing on structures within the high ADT I-95, I-76, and SR 1 corridors. Inspections were often restricted to a 9am to 3pm window to minimize impacts to traffic. Included the biennial inspection of the double deck through truss – Girard Point Bridge – carrying I-95 over the Schuylkill River. Complex traffic control, access equipment and railroad permitting was required. Inspection work was completed in accordance with PennDOT's Bridge Inspection Procedures and Policies Manual, NBIS, FHWA, and AASHTO. Project included routine NBIS, interim, emergency on-call services, and element level inspections.
01/18 – present	**Montana Department of Transportation (MDT), Load Rating Bridges Term Contracts 2018-2021 & 2021-2024.** *Bridge Load Rating Engineer* responsible for quality, schedule, budget, technical aspects, and communication for load rating services for this statewide contract. The goal of this project is to provide load rating services on an as-needed basis for all of the state's legal loads. The work includes the analysis and rating of nearly 1,000 bridges to date throughout the state. The bridges include steel truss-floorbeam- stringer systems with gusset plate analysis, glue laminated timber, solid-sawn timber, reinforced concrete, prestressed concrete, multi-girder steel, corrugated metal pipe, and steel girder-floorbeam-stringer systems. AECOM used AASHTOWare Bridge Rating (BrR) software to analyze all structures that the program is capable of modeling.

03/21 - present	**PennDOT District 10-0, Agreement E04971, Armstrong County Local NBIS Bridge Inspections.** *Bridge Inspection Team Leader* for 60 NBIS bridges in PennDOT D10-0 that include special and routine inspections of bridges on the local system. All assignments included the development of Plans of Action to address priority maintenance deficiencies and/or load capacity restrictions. In addition, AECOM is required to update the inventory and appraisal data, provide recommendations for safety improvements, coordinate the mitigation of critical deficiencies, and oversee load rating analysis of bridges that have advanced deterioration.
09/19 - present	**PennDOT, District 2-0, Agreement E04604, Clearfield County Local NBIS Bridge Inspections.** *Bridge Inspection Team Leader* for 70 NBIS bridge inspections with PennDOT D2-0 that include special and routine inspections of bridges on the local system. All assignments included the development of Plans of Action to address priority maintenance deficiencies and/or load capacity restrictions. In addition, AECOM is required to update the inventory and appraisal data, provide recommendations for safety improvements, coordinate the mitigation of critical deficiencies and oversee load rating analysis of bridges that have advanced deterioration.
02/21-10/22	**PennDOT District 6-0, NBIS Inspection of Locally Owned Bridges in Delaware County, Bucks County, Montgomery County, and Chester County, PA.** *Bridge Inspection Team Assistant* for a wide variety of structures. Confined space inspection, access equipment and railroad permitting was required. Inspection work was completed in accordance with PennDOT's Bridge Inspection Procedures and Policies Manual, NBIS, FHWA, and AASHTO. Project included routine NBIS, interim, emergency post flood, and element level inspections.

Firm	AECOM Technical Services, Inc.		
Mike Zavorski *(MPR 5)* Bridge Inspector		Years of Relevant Experience with this Employer	22
		Years of Relevant Experience with Other Employer(s)	12
Degree(s) / Years / Specialization	BS / 2006 / Civil - Construction Engineering Technology BS / 1983 / Marketing		
Active Registration Number / State / Expiration Date	N/A		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	**MPR 5. Bridge Inspector; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges.** *Mike will be one of AECOM's Bridge Inspectors for this contract. He has been a Certified Bridge Safety Inspector since 1991 and has performed bridge inspection of more that 3,000 structures for DOTs in PA, NJ, DE; the Army Corps of Engineers (USACE); the Pennsylvania Turnpike; the Delaware River Port Authority (DRPA); SEPTA; Norfolk Southern and CSX Railroads. He has served as a Team Leader for bridge inspection which includes scheduling teams and equipment, developing maintenance needs and creating technical reports. His experience also includes emergency response inspections for earthquakes, flood events, and bridge impact damage. Mike has the following extensive training: Bridge Scour Evaluation Training Course; 2003, PennDOT; Bridge Safety Inspection Training Course, PennDOT, 1991; Bridge Safety Inspection Refreshers, PennDOT, Biennially through 2023.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
05/21 - present	**PennDOT District 6-0, Agreement E05073, NBIS Inspection of 413 State Owned Bridges in Philadelphia County, PA.** ***Bridge Inspection Coordinator*** for the 2-cycle contract focusing on structures within the high ADT I-95, US Route 1, and I-76 SR 309 corridors. Some of the bridges, particularly on I-95 where several viaducts extend over one mile in length. The assigned bridges typically require specialized access, traffic control, railroad coordination, non-destructive testing, and mechanical and electrical inspection of movable bridges. Due to the high traffic volume roadways, construction projects, and number of railroad crossings, there is an elevated level of coordination of planned inspection activities required. This demanding project included fracture critical inspections, in-depth inspections, routine NBIS inspections, interim inspections, emergency on-call services, element inventory and element level inspections.
01/21 - present	**PennDOT District 4-0, Agreement E04957, NBIS Inspection of Large / Complex Bridges, PA.** ***Bridge Inspection Coordinator f***or the 3-cycle bridge inspection and load rating contract of 160 assigned structures in D4-0. The assigned bridges are non-fracture critical large and complex requiring specialized access, traffic control, railroad coordination, and non-destructive testing. Project included in-depth inspections, routine NBIS inspections, interim inspections, emergency on-call services, load ratings analyses, element inventory and element level inspections.
05/12 - 05/19	**PennDOT District 5-0, Safety Inspections of State Owned Bridges, Monroe, Carbon and Schuylkill Counties, PA.** ***Bridge Inspection Team Leader*** for this three-cycle contract. Inspected all aspects of the bridge including safety features, roadway conditions, deck, superstructure, substructure and scourability. The inspections sometimes required the use of special equipment and traffic control. Performed post-flood emergency response inspections required after significant flooding events. In addition to inspection, also responsible for organizing and compiling all field notes, photographs and maintenance items for the preparation of the technical forms and reports and recommend load rating analysis where necessary. Handled all notifications and correspondence to the local owner regarding priority maintenance, sign installations, tracking the progress of repairs to the structure and updating the pertinent fields in BMS2.

05/17-05/22	**PennDOT District 6-0, Agreement E03796, NBIS Inspection of 436 State Owned Bridges in Montgomery County, PA.** *Bridge Inspection Team Leader* for the 2-cycle contract focusing on structures within the high ADT I-476, SR 422 and SR 309 corridors. Inspections were often restricted to a 9am to 3pm window to minimize impacts to traffic. Project included routine NBIS, interim, emergency on-call services, and CoRe element level inspections.
04/12-12/21	**Inventory Inspection of the Charles W. Cullen Bridge at the Indian River Inlet, DelDOT, Rehoboth, DE.** *Bridge Inspection Team Leader* for the 2012 Inventory Inspection of the 2,600 ft. long precast, cast-in-place, post-tensioned concrete structure with cable-stayed main span crossing the Indian River Inlet. The bridge consists of a total of eight precast Bulb-T girder approach spans, each 106'-3" in length and a three span concrete cable-stayed structure with a main span of 950 feet and side spans of 400 feet. The inspection efforts included a close-up, hands-on inspection of all members of the structure to document the baseline conditions. The inventory inspection verified the safety of the bridge, in accordance with the NBIS and DelDOT standards. The inspection efforts culminated with the production of a full bridge inspection report including NBIS inspection forms and supporting documents. Responsibilities included the development of bridge specific access and safety plans; field coordination; scheduling of inspection teams, equipment; coordination with the contractor; and management of the budget and report development. Access for the inspection included industrial rope access climbing, aerial boom lifts and via the contractor's work platform.
04/12 – 12/12	**Delaware Department of Transportation (DelDOT), Inventory Inspection of the Indian River Bridge, DE.** *Bridge Inspection Team Leader* for the 2012 Inventory Inspection of the Indian River Cable Stat Bridge. The inspection efforts included a close-up, hands-on inspection of all members of the structure to document the baseline conditions. The inventory inspection verified the safety of the bridge, in accordance with NBIS and DelDOT standards. It also serves to provide the required Bridge Inventory Data (BID) of the as-built structure and the inspection efforts culminated with the production of a full bridge inspection report including NBIS inspection forms and supporting documents.
04/08 – 03/12	**USACE, Philadelphia District, Indefinite Delivery Contract for A/E Services to Support Civil Works, PA.** *Bridge Inspection Team Leader.* Work included the biennial inspection of the Reedy Pt., Summit, Chesapeake City, St. Georges and William V. Roth, Jr. (SR 1) Bridges spanning the C&D Canal. Additional assignments included technical design reviews and superstructure designs. Biennial inspection responsibilities included development of bridge specific access and safety plans; field coordination; scheduling of inspection teams, equipment and MPT; and management of the budget and report development including SI&A form update.

Firm	AECOM Technical Services, Inc.		
Sean Quick, EI *(MPR 5)* Bridge Inspectors		Years of Relevant Experience with this Employer	3
		Years of Relevant Experience with Other Employer(s)	0
Degree(s) / Years / Specialization	BE / 2021 / Civil Engineering		
Active Registration Number / State / Expiration Date	N/A		
Year Registered	2021	Discipline	Civil Engineer Intern, NJ
Contract Role(s) / Brief Description of Responsibilities	**MPR 5. Bridge Inspector; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 3.Society of Professional Rope Access Technician (SPRAT) Certified.** *Sean will be one of AECOM's Bridge Inspectors for this contract. He has been a Certified Bridge Safety Inspector since 2021. Training: Bridge Safety Inspection Training Course, PennDOT, 2021. Bridge Safety Inspection Training Refresher Courses; 2023.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
02/23 - present	**Louisiana Department of Transportation and Development (LADOTD), IDIQ for Bridge Load Rating Services, Statewide, LA.** *Load Rating Engineer* for this present load rating analysis of 140 bridges throughout Louisiana, including superstructure and substructure analysis; developed proprietary calculation tools for influence-based analysis of bent caps and timber piles; provided recommendations for mitigation and repair of deficient structures.
04/22 – 04/24	**Delaware River Port Authority (DRPA), Commodore Barry Bridge over Delaware River 2022 Biennial Inspection, PA and NJ.** *Bridge Inspector* for the biennial inspection that included a close visual "hands-on" inspection of all NSTM and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans. This project included ultrasonic testing of the pins and electro-slag A514 steel welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. The project also included the inspection of the sign structures, the US130 over pass structures and the toll and maintenance buildings. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.
05/21 - present	**PennDOT District 6-0, Agreement E05073, NBIS Inspection of 413 State Owned Bridges in Philadelphia County, PA.** *Bridge Inspection Assistant Team Leader* for the 2-cycle contract focusing on structures within the high ADT I-95, I-76, and SR 1 corridors. Inspections were often restricted to a 9am to 3pm window to minimize impacts to traffic. Included the biennial inspection of the double deck through truss – Girard Point Bridge – carrying I-95 over the Schuylkill River. Complex traffic control, access equipment and railroad permitting was required. Inspection work was completed in accordance with PennDOT's Bridge Inspection Procedures and Policies Manual, NBIS, FHWA, and AASHTO. Project included routine NBIS, interim, emergency on-call services, and element level inspections.
04/20 - 12/21	**Delaware River Port Authority (DRPA), Betsy Ross Bridge over Delaware River 2020 Biennial Inspection, PA and NJ.** *Bridge Inspection Assistant Team Leader* for the biennial inspection that included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the main truss bridge, the approach truss spans, the approach girder spans, and numerous approach structures. This project included an underwater inspection of the channel piers and inspection and mapping via an unmanned aerial vehicle (UAV). The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.

	Firm	**AECOM Technical Services, Inc.**	
Brendan Kearns *(MPR 5)* Bridge Inspector		Years of Relevant Experience with this Employer	3
		Years of Relevant Experience with Other Employer(s)	0

Degree(s) / Years / Specialization	BS / 2020 / Civil Engineering MS / 2021 / Civil Engineering		
Active Registration Number / State / Expiration Date	N/A		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	**MPR 5. Bridge Inspector; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 3.Society of Professional Rope Access Technician (SPRAT) Certified.** *Brendan will be one of AECOM's Bridge Inspectors for this contract. He has been a Certified Bridge Safety Inspector since 2021. Training: Bridge Safety Inspection Training Course, PennDOT, 2021. Bridge Safety Inspection Training Refresher Courses; 2023.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
04/22 – 04/24	**Delaware River Port Authority (DRPA), Commodore Barry Bridge over Delaware River 2022 Biennial Inspection, PA and NJ.** ***Bridge Inspector*** for the biennial inspection that included a close visual "hands-on" inspection of all NSTM and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans. This project included ultrasonic testing of the pins and electro-slag A514 steel welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. The project also included the inspection of the sign structures, the US130 over pass structures and the toll and maintenance buildings. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.
05/21 - present	**PennDOT District 6-0, Agreement E05073, NBIS Inspection of 413 State Owned Bridges in Philadelphia County, PA.** ***Bridge Inspector*** for the 2-cycle contract focusing on structures within the high ADT I-95, I-76, and SR 1 corridors. Inspections were often restricted to a 9am to 3pm window to minimize impacts to traffic. Included the biennial inspection of the double deck through truss – Girard Point Bridge – carrying I-95 over the Schuylkill River. Complex traffic control, access equipment and railroad permitting was required. Inspection work was completed in accordance with PennDOT's Bridge Inspection Procedures and Policies Manual, NBIS, FHWA, and AASHTO. Project included routine NBIS, interim, emergency on-call services, and element level inspections.
04/20 - 12/21	**Delaware River Port Authority (DRPA), Betsy Ross Bridge over Delaware River 2020 Biennial Inspection, PA and NJ.** ***Bridge Inspector f***or the biennial inspection that included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details including the main truss bridge, the approach truss spans, the approach girder spans, and numerous approach structures. This project included an underwater inspection of the channel piers and inspection and mapping via an unmanned aerial vehicle (UAV). The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.

Firm	AECOM Technical Services, Inc.		
Connor Moss, EI *(MPR 5)* Bridge Inspector		Years of Relevant Experience with this Employer	1
		Years of Relevant Experience with Other Employer(s)	0
Degree(s) / Years / Specialization	BS / 2020 / Civil Engineering MS / 2021 / Civil Engineering		
Active Registration Number / State / Expiration Date	N/A		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	**MPR 5. Bridge Inspector; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector.** *Connor will be one of AECOM's Bridge Inspectors for this contract. He has been a Certified Bridge Safety Inspector since 2023. Training: Bridge Safety Inspection Training Course, PennDOT, 2023.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
04/22 – 04/24	**Delaware River Port Authority (DRPA), Commodore Barry Bridge over Delaware River 2022 Biennial Inspection, PA and NJ.** ***Bridge Inspector*** for the biennial inspection that included a close visual "hands-on" inspection of all NSTM and fatigue sensitive details including the three-span, cantilevered through truss main span, deck truss spans and steel stringer spans. This project included ultrasonic testing of the pins and electro-slag A514 steel welds on the bridge. Inspectors also visually inspected a select number of vibration dampers. The project also included the inspection of the sign structures, the US130 over pass structures and the toll and maintenance buildings. The results of the inspection were presented in a structural inspection report. Bridge data was updated for NJDOT and PennDOT reporting. An executive briefing was also prepared and delivered to DRPA.
05/21 - present	**PennDOT District 6-0, Agreement E05073, NBIS Inspection of 413 State Owned Bridges in Philadelphia County, PA.** ***Bridge Inspector*** for the 2-cycle contract focusing on structures within the high ADT I-95, I-76, and SR 1 corridors. Inspections were often restricted to a 9am to 3pm window to minimize impacts to traffic. Included the biennial inspection of the double deck through truss – Girard Point Bridge – carrying I-95 over the Schuylkill River. Complex traffic control, access equipment and railroad permitting was required. Inspection work was completed in accordance with PennDOT's Bridge Inspection Procedures and Policies Manual, NBIS, FHWA, and AASHTO. Project included routine NBIS, interim, emergency on-call services, and element level inspections.
01/21 - present	**PennDOT District 4-0, Agreement E04957, NBIS Inspection of Large/Complex Bridges, PA.** ***Bridge Inspector*** for the 3-cycle contract focusing on large and complex structures throughout PennDOT District 4-0. Inspections were often restricted to a 9am to 3pm window to minimize impacts to traffic. Complex traffic control, access equipment and railroad permitting was required. Inspection work was completed in accordance with PennDOT's Bridge Inspection Procedures and Policies Manual, NBIS, FHWA, and AASHTO. Project included routine NBIS, interim, emergency on-call services, and element level inspections.

Firm	AECOM Technical Services, Inc.		
Kevin Curley, EI *(MPR 5)* Bridge Inspector		Years of Relevant Experience with this Employer	8
		Years of Relevant Experience with Other Employer(s)	0
Degree(s) / Years / Specialization	BS / 2015 / Civil Engineering		
Active Registration Number / State / Expiration Date	N/A		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	**MPR 5. Bridge Inspector; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector.** *Kevin serves AECOM Transportation as a certified bridge inspection team leader and load ratings engineer with experience in AASHTOWare BrR, Bentley Leap Bridge, and Bentley Inspecttech.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
01/16- present	**Mississippi Office of State Aid Complex Bridge Inspections.** *Inspector.* Mississippi Office of State Aid hired AECOM to perform inspections and load ratings of county bridges across the Northern part of the state. Mr. Curley participated in the inspection and load rating of county bridges throughout the state of Mississippi including preparation of inspection materials, onsite inspections, and completion of deliverables to the Mississippi Office of State Aid and Road Construction.
01/23-12/23	**MDOT Box Girder Bridges In-Depth, NBI, and Element Level Inspections.** *Inspection Team Leader.* MDOT hired AECOM to perform NBI and Element Level Inspections of the reinforced concrete box girder bridges including in-depth inspection of the dapped end girder details. Mr. Curley served as a Bridge Inspection Team Leader and participated in report preparation and planning for the project.
01/22-12/22	**I-110 over Biloxi Back Bay Movable Bridge In-Depth Inspection.** *Inspection Team Leader.* MDOT hired AECOM to perform the In-Depth inspection of I-110 over Biloxi Back Bay. This bridge includes a twin double leaf bascule main span. Mr. Curley was an Inspection Team Leader on the project and assisted with preparation of the Approach span portions of the report.
01/21-12/21	**MDOT I-20EB to I-55NB Inspection and Analysis.** *Inspection Team Leader.* MDOT hired AECOM to perform a field inspection, including accessing the interior of the box girders and providing an in-depth inspection of the dapped end girder details, on this 17-Span, multi-celled box girder bridge. Mr. Curley served as a Bridge Inspection Team Leader and participated in report preparation for the project.
02/19-01/20	**Statewide Bridge Deck Scanning and Visual Surveys.** *Inspector.* MDOT hired AECOM to perform Deck Scanning and Visual Surveys for 34 bridges in Mississippi spread across 2 projects. Mr. Curley was responsible for performing Visual Surveys of the bridge deck undersides and drafting the defects. The information collected during these projects is used for deck rehabilitation estimates for planning purposes and resource allocation.
01/20- present	**North Dakota County Bridge Inspections.** *Inspection Team Leader.* North Dakota Department of Transportation hired AECOM to perform 760 inspections and load ratings of county bridges across the northwestern part of the state. Mr. Curley is an inspection team leader on the project. The substructures were a mix of timber pile bents, reinforced concrete configurations, steel H-pile bents and masonry abutments. The superstructure types inspected/evaluated during this project included: steel I-beams, prestressed girders, trusses, RC channel beams, RC culverts, RC slabs, and steel pipe culverts.
03/19- 06/23	**City of Waterloo Routine Inspections.** *Inspection Team Leader.* The city of Waterloo, Iowa hired AECOM to perform inspections on bridges throughout the city. Mr. Curley was an inspection team leader on the project. The substructures were a mix of timber piling, steel H-pile, and reinforced concrete piles. The superstructure types inspected during this project included steel I-beams, RC channel beams, RC culverts, RC slabs, and timber girders.

	Firm	**AECOM Technical Services, Inc.**	
Morgan Baumann,EI *(MPR 5)* Bridge Inspector		Years of Relevant Experience with this Employer	2
		Years of Relevant Experience with Other Employer(s)	0

Degree(s) / Years / Specialization	BS / 2020 / Civil Engineering		
Active Registration Number / State / Expiration Date	N/A		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	**MPR 5. Bridge Inspector; 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector.** *Morgan is responsible for the inspection for all types of highway structures including complex and long-span bridges. She has experience with in-depth visual inspection and NSTM inspection of both long and short span bridges, including the use of non-destructive testing methods.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
2020-2023	**KYTC, Fracture Critical Inspection of Ohio River Bridges, KY.** ***Bridge Inspector.*** An arms-length inspection of all fracture critical members and fatigue sensitive details was conducted as part of two separate contracts. A total of seven Ohio River fracture critical inspections have been performed throughout this timeframe. Structure types include cantilevered and continuous through truss bridges, cable stayed bridges, suspension bridges, steel multi-girder spans, and reinforced concrete beam spans. Inspections were performed using rope access, snooper trucks, man lifts, and climbing techniques. Inspection reports were prepared using in AASHTO's BrM program, repair recommendations were provided, and repair plans were provided on four of the bridges.
2020-2023	**KYTC, Statewide NBIS Safety Inspections, KY.** ***Inspector & Technician.*** Assisted the QTL for nearly 75 NBIS Safety Inspections and scour assessments including collection of element level data as defined by the National Bridge Inspection Standards and the AASHTO Manual for Bridge Element Inspection. Individual letter agreements include inspections of multiple structures assigned by individual districts. Inspections include collection of element level data, stream cross section data, and scour assessments as necessary. Inspection reports were prepared using AASHTOWare Bridge Management (BrM) software.

Firm	**AECOM Technical Services, Inc.**		
 **Carlye Waldon, EIT *(MPR 5)*** Bridge Engineer		Years of Relevant Experience with this Employer	1
		Years of Relevant Experience with Other Employer(s)	3
Degree(s) / Years / Specialization	BS/2020/Civil Engineering		
Active Registration Number / State / Expiration Date	EI.31910/MI/9.30.24		
Year Registered	2021	Discipline	Engineer Intern
Contract Role(s) / Brief Description of Responsibilities	**MPR 5. Bridge Inspector. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector.** *Ms. Waldon serves AECOM as a bridge engineer in the Ridgeland, MS office. She has experience in bridge design and bridge inspection. Ms. Waldon has experience in various software including Autodesk, MicroStation, and LEAP Bridge.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
07/23- 08/23	**MDOT Box Girder Bridges In-Depth, NBI, and Element Level Inspections.** ***Inspector.*** MDOT hired AECOM to perform NBI and Element Level Inspections of the reinforced concrete box girder bridges including in depth inspection of the dapped end details. Ms. Waldon served as a Bridge Inspector on the project.
08/22- present	**I-110 over Biloxi Back Bay Movable Bridge In-Depth Inspection.** ***Inspector.*** MDOT hired AECOM to perform the In-Depth inspection of I-110 over Biloxi Back Bay. This bridge includes a twin double leaf bascule main span. Ms. Waldon was an inspection team member on the project and assisted with preparation of the Approach span portions of the report.
01/22- present	**State Aid Complex and Timber Bridge Inspections.** ***Inspector.*** Mississippi Office of State Aid hired AECOM to perform 168 inspections and load ratings of county bridges across the Northern part of the state. Ms. Waldon is an inspection team member on the project and is responsible for the completion of inspection reports.
01/2022-present	**North Dakota County Bridge Inspections.** ***Inspector.*** North Dakota Department of Transportation hired AECOM to perform 760 inspections and load ratings of county bridges across the northwestern part of the state. Ms. Waldon is an inspection team member on the project. The substructures were a mix of timber pile bents, reinforced concrete configurations, steel H-pile bents and masonry abutments. The superstructure types inspected/evaluated during this project included: steel I-beams, prestressed girders, trusses, RC channel beams, RC culverts, RC slabs, and steel pipe culverts.
06/23-present	**City of Waterloo Routine/FC Inspections.** ***Inspector.*** The city of Waterloo, Iowa hired AECOM to perform inspections on bridges throughout the city. Ms. Waldon was an inspection team member on the project. The substructures were a mix of timber piling, steel H-pile, and reinforced concrete piles. The superstructure types inspected during this project included; steel I-beams, RC channel beams, RC culverts, RC slabs, and timber girders.
05/23- present	**Michigan Street over Sturgeon Bay Routine/Fracture Critical/In-Depth Inspections.** ***Inspector.*** WisDOT hired AECOM to perform a Fracture Critical and Routine Element Inspection of the truss bridge on Michigan Street over Sturgeon Bay. AECOM also performed an In-Depth inspection on the gusset plates. Ms. Waldon was an inspection team member on the project and assisted with preparation of the inspection report.

Firm	AECOM Technical Services, Inc.		
Bradley R. Kopping, PE Movable Bridge Inspection		Years of Relevant Experience with this Employer	8
		Years of Relevant Experience with Other Employer(s)	28
Degree(s) / Years / Specialization	BS / 1989 / Mechanical Engineer		
Active Registration Number / State / Expiration Date	39581 / LA / 09/30/2025		
Year Registered	2015	Discipline	Civil Engineer
Contract Role(s) / Brief Description of Responsibilities	**Movable Bridge Inspection.** *Bradley is responsible for the design and inspection of mechanical systems for movable bridges, heavy movable structures, and other transportation facilities; including production of plans, technical specifications, and cost estimates for new and rehabilitation projects. In addition, he has performed peer review of other engineers work and produced cost estimates for inspection and design RFPs. He has been involved in the industry for over 20 years.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
06/18-present	**Wisconsin Department of Transportation (WisDOT), Racine Street Bascule Bridge over the Fox River, Menasha, WI.** *Senior Mechanical Engineer.* Responsible for the design of the complete mechanical system required for a rolling lift bridge span replacement including the rear locks. The design of the machinery room came with tight constraints for machinery fit. Overall access was improved by the inclusion of access stairs designed into the bearing weldments allowing access over the pinion shafts. Rack and pinion were sized such that only a single rotation of the pinion achieved span motion for reduced contact tooth wear. Produced stamped drawings, the Technical Special Provisions (TSP), schedule, and cost estimate.
04/15-12/21	**CalTrans, 3rd Street Bascule Bridge over Islais Creek, San Francisco, CA.** *Senior Mechanical Engineer.* Responsible for design of mechanical portion of the bridge rehabilitation. This includes the replacement of the span lock machinery with new lock bar assemblies. Responsibilities include developing plans, specifications, and a cost estimate for all mechanical work. Further responsibilities include post-design construction support which involves answering RFI's, reviewing contractor submittals, inspecting contractor's field work and reporting findings to CalTrans representatives.
11/14-present	**FDOT District Four, Southern Blvd, (SR80) Bascule Bridge Replacement over Inter-Coastal Waterway, Palm Beach County, FL.** *Senior Mechanical Engineer.* Responsible for design of mechanical portion of the bridge replacement. This included the span drive machinery design and the writing of the FDOT Technical Special Provisions (TSP) 465 as well as the engineer's cost estimate and construction schedule.
08/15-present	**San Joaquin County, Millers Ferry Swing Bridge over Mokelumne River, Walnut Grove, CA.** *Senior Mechanical Engineer.* Responsible for design of mechanical portion of the bridge rehabilitation. This included the end lifting machinery. Responsibilities include developing plans, specifications, and a cost estimate for all mechanical work. Further responsibilities include post-design construction support which involves answering RFI's, reviewing contractor submittals, and reporting findings to City representa.
10/20-present	**LADOTD, Lapalco Boulevard Bascule Bridge over the Harvey Canal, New Orleans LA.** *Mechanical Engineer Reviewer.* Responsible for providing machinery review services of the new Lapalco bascule Draft Bridge Development Report including providing comments on the report and coordinating responses with the bridge designers.

04/21-present	**City of Appleton, Bascule Bridges Inspections and Rehabilitations, Appleton, WI.** *Mechanical Inspection.* The inspection included an on-site inspection of the power distribution system including main motor(s) insulation test, inspection of existing lighting, conduits, conductors, submarine cables, receptacles, power disconnects, main enclosure gears including internal components, power monitoring, control console, control conduits and wiring, control field end devices, navigational lighting, traffic gates, and existing bridge documentation. A report was provided to the owner with findings of the inspection including suggested repairs to the power and control systems.
04/13-12/18	**WisDOT, 1st Street Bridge Rehabilitation, Milwaukee, WI.** *Senior Mechanical Engineer responsible for design of mechanical portion of the bridge rehabilitation.* This included the span drive machinery, span lock machinery and the span support machinery. Responsibilities include developing plans, specifications, and a cost estimate for all mechanical work. Further responsibilities include post-design construction support which involves answering RFI's, reviewing contractor submittals, inspecting contractor's field work and reporting findings to WisDOT representatives.
01/15-5/17	**MissDoT, MissDoT Inspection Manuals, Statewide, MS.** *Subject Matter Expert.* Responsible for writing mechanical portions of MissDoT bridge inspection manuals for 3 movable bridges. These manuals were written for MissDoT personnel to help them with preventative maintenance and to properly determine the condition of the bridges.
10/17-present	**Municipality of Chatham-Kent, Baseline Bridge, Wallaceburg, ON.** *Senior Mechanical Engineer.* Responsible for supervising machinery and electrical rehabilitation tender elements (e.g. plans, specifications and cost estimates) for Baseline Bridge in Wallaceburg, Ontario. The movable bridge rehabilitation included mechanical and electrical span control and span operation and support systems. Baseline Bridge is a swing bridge that uses hydraulic cylinders to provide rotational movement and to actuate the span support components. The electrical work consisted of replacement of the entire control systems including the control desk, PLC and other electrical components.
10/14-09/17	**MassDOT, Bridge Street Bridge Replacement, Chatham, MA.** *Senior Mechanical Engineer.* Responsible for design of mechanical portion of the bridge rehabilitation. This included the span drive, span support and span lock machinery design and the writing of the Technical Specifications as well as the engineer's cost estimate and construction schedule. Further responsibilities include post-design construction support which involves answering RFI's, reviewing contractor submittals, inspecting contractor's field work and reporting findings to MassDoT representatives.

Firm	AECOM Technical Services, Inc.		
Carlos R. Turcios, PE Movable Bridge Inspection		Years of Relevant Experience with this Employer	12
		Years of Relevant Experience with Other Employer(s)	12
Degree(s) / Years / Specialization	BS / 1998 / Electrical Engineering MBA / 2004 / International Business		
Active Registration Number / State / Expiration Date	#085259 / PA / 9/30/2025		
Year Registered	2017	Discipline	Electrical Engineer
Contract Role(s) / Brief Description of Responsibilities	**Movable Bridge Inspection.** *Carlos is a lead Electrical Engineer with 24 years of experience in all areas of electrical power distribution as well as electrical controls. He is familiar with all phases of project design including estimating, scheduling, inspections, specifying, contract drawings, equipment shop testing, onsite controls functional testing, check-out and start-up, and cost tracking. Mr. Turcios has designed and supported medium-voltage and low-voltage power distribution including control schemes for government, commercial, industrial, and bridge facilities; engineered various power systems and distribution networks; formulated and coordinated control schemes for electro/mechanical, HVAC, and SCADA systems; developed designs for interior/exterior lighting including navigational lighting, grounding, lightning protection, fire detection and alarm systems. He is also experienced in data acquisition systems, Programmable Logic Controllers (PLC's), UPS, remote control and telemetry circuitry. He has performed bridge assessment reports, technical studies reports addressing short-circuit analysis and protective device coordination utilizing computer modeling of electrical networks. As the engineer of record, he is responsible for directing the preparation of Electrical Power and Control System Plans, Lighting Plans, Lightning Protection System Plans, Fire Alarm System Plans, and Technical Specifications of movable bridges and other projects.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
03/21-05/21	**City of Appleton, Bascule Bridges Inspections and Rehabilitations, Appleton, WI.** ***Electrical inspection.*** The inspection included an on-site in-depth inspection of the power distribution system including main motor(s) insulation test, inspection of existing lighting, conduits, conductors, submarine cables, receptacles, power disconnects, main enclosure gears including internal components, power monitoring, control console, control conduits and wiring, control field end devices, navigational lighting, traffic gates, and existing bridge documentation. A report was provided to the owner with findings of the inspection including suggested repairs to the power and control systems.
09/20-04/21	**Louisiana Department of Transportation and Development (LADOTD), Lapalco Boulevard Bascule Bridge over the Harvey Canal, LA.** ***Electrical Engineer Reviewer.*** Provided electrical and controls review services of the new Lapalco bascule Draft Bridge Development Report including providing comments on the report and coordinating responses with the bridge designers.
05/20-present	**Wisconsin Department of Transportation (WisDOT), Racine Street Bascule Bridge over the Fox River, Appleton, WI.** ***Post construction design services.*** Duties include reviewing electrical shop drawings to electrical power distribution, grounding, interior and exterior lighting, lightning protection system, bridge controls, and CCTV system.

11/18-12/18	**City of Milwaukee, South 1st Street Bascule Bridge over the Kinnickinnic River, Milwaukee, WI.** ***Control engineering.*** The task included review and approval of bridge testing procedures and operators training manual. In addition to approvals, a two-site visit was included to witness the contractor exercise the bridge and test each control device as per approved testing procedures in accordance with contract documents to ensure that all electrical and control components are operating within industry and manufacturer's tolerances.
04/18–05/19	**Florida DOT, Southern Boulevard (SR80) Bascule Bridge Replacement over Inter-coastal Waterway, West Palm Beach, FL.** ***Post construction design services.*** Duties include temporary bridge functional testing of the control system, contractor's shop testing of the main bridge control system, reviewing electrical shop drawings to electrical power distribution, grounding, interior and exterior lighting, lightning protection system, bridge controls, CCTV system, and cathodic protection for a SR-80 Southern Boulevard bridge replacement.
06/18–01/19	**Florida Department of Transportation (FDOT), Bascule Bridge Rehabilitation- Manasota Beach Rd, Sarasota, FL.** ***Engineer.*** Responsible for on-site electrical bridge inspection to collect data on the existing power distribution and controls; provided a 100% electrical design package for the replacement of the control house relay control console, Far Span Bridge motor variable speed drive, span lock motor controls, and associated electrical equipment conduit and conductors.
04/18 – present	**Windsor-Detroit Bridge Authority, Gordie Howe International Crossing, Detroit, MI/Windsor, Ontario, Canada.** ***Lead electrical designer.*** 1.5 miles international bridge across the Detroit river connection the US and Canada. The design support includes creating design-built electrical contract documents for the electrical distribution infrastructure to support roadway lighting, pedestrian lighting, maintenance lighting, security lighting, bridge esthetic lighting, security hardware, intelligent traffic system (ITS), CCTV system, navigational lighting including aircraft obstruction lighting, power grounding and lightning protection system. Power distribution included the design of four redundant 500KVA medium voltage transformers (13.2KV/600V), two 100KVA UPS and distribution infrastructure for fiber optic communications.
01/15-5/17	**City of Petaluma, D Street Bridge, Petaluma, CA**. Performed a 3 day on-site electrical bridge inspection that included the review of existing documentation of the 240/120V double ended electrical power distribution and bridge control infrastructure, insulation, voltage and current test on all bridge motors during multiple bridge operations, test of the entire control system via bridge operator, visual inspection of electrical and control bridge system components such as navigational lights, traffic signals, traffic gates, limit switches, miscellaneous raceway systems, enclosures, disconnects and provided a final report of findings.

Firm	**AECOM Technical Services, Inc.**		
James (Jim) L. Foley III, PE Movable Bridge Condition Assessment (Mechanical)		Years of Relevant Experience with this Employer	39
		Years of Relevant Experience with Other Employer(s)	3
Degree(s) / Years / Specialization	AS / 1979 / Mechanical Engineering Technology		
Active Registration Number / State / Expiration Date	31212 / MD / 01.19.25		
Year Registered	2005	Discipline	Mechanical Engineer
Contract Role(s) / Brief Description of Responsibilities	**Movable Bridge Inspection.** *Jim is a Mechanical Engineer with experience in preparing contract plans and specifications for the design of hydraulic and mechanical bridge machinery and in maintenance and operation inspections of bridge machinery. He is a National Lead for Movable Bridge Machinery. He has had hands on over 75 movable bridges for machinery inspection services, in the US & Canada, of all the mechanical components including strain gauge testing. He has been the Project Engineer on numerous new design and rehabilitation projects. He has been with AECOM and legacy companies for 37 years. Training: NHI Bridge Inspection Refresher Training, 2006, USDOT, FHWA, NHI; NHI Tunnel Safety Inspection, 2014, USDOT, FHWA, NHI; NHI Tunnel Safety Inspection Refresher, 2020, USDOT, FHWA, NHI; Working at Heights Fall Protection Safety Training, 2020.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
08/17-present	**Maryland State Highway Administration, Complex and Movable Bridge Inspection Services of Movable Bridges, Statewide, MD.** ***Inspector.*** NBIS Condition Inspector under a contract with the State Highway Administration (SHA)'s Structure Inspection and Remedial Engineering Division to inspect, evaluate, and prepare rehabilitation plans for the SHA's movable bridges. Mr. Foley provided mechanical system inspection and rehabilitation for the following assignments: • 2020 & 2018 Biennial NBIS inspections of Bridge 040008001 (a swing span carrying MD RT 231 over Patuxent River) • 2017 Biennial NBIS inspections of Bridge 170006001 (a double-leaf trunnion lift-type bascule span carrying MD RT18B over Kent Narrows) • 2020 & 2018 Biennial NBIS inspections of Bridge 220028001 (a twin single-leaf rolling lift-type bascule span carrying US 50B over Wicomico River) • 2020 & 2018 Biennial NBIS inspections of Bridge 220009001 (a double-leaf trunnion lift-type bascule span carrying MD RT 991 over Wicomico River) • 2020 Biennial NBIS inspections of Bridge 230007001 (a double-leaf rolling lift-type bascule span carrying US 50 over Sinepuxent Bay) • 2020 Biennial NBIS inspections of Bridge 200018001 (a single-leaf trunnion lift-type bascule span carrying MD RT370 over Miles River)
08/16-09/16	**Mississippi Department of Transportation, I-110 Bascule Bridge over Back Bay of Biloxi, Biloxi, MS.** ***Inspector.*** Inspector of mechanical machinery for twinleaf Scherzer rolling lift bascule bridge, in conjunction with electrical inspection, to identify the existing condition of the bridge and document deficiencies for the Mississippi Department of Transpiration.

01/19-07/19	**Mississippi Department of Transportation, Fort Bayou Route 609 Bascule Bridge, Jackson County, MS.** *Inspector.* Inspector of mechanical machinery for trunnion bascule bridge, in conjunction with electrical inspection, to identify the existing condition of the bridge and document deficiencies for the Mississippi Department of Transportation.
07/16-09/16	**Canadian National Railway – Western Region, Mile Post 084.0 Strauss Bascule Bridge Counterweight Trunnion Rehabilitation over Rainy Lake, Fort Francis, Canada.** *Inspector.* Design and Construction Assistant for the replacement of the counterweight trunnion shafts and bearings on an existing Strauss trunnion bascule bridge.
11/09-present	**VDOT/MDSHA, Woodrow Wilson Memorial Bridge (TAMS Contract), MD and VA.** *Inspector.* Inspections and ratings of the bridge mechanical machinery under an on-call services type contract. Troubleshooting activities with DBI Services including repairs to fraying wires in an electrical cabinet (at the expansion joint), damaged pedestrian walkway lighting fixtures, stuck span lock bars, limit switch couplings, generator testing, barrier gate operation issues (limit switch settings), Virginia leaf impacting the Maryland leaf, drive encoder replacement and coupling removal to troubleshooting leaf drive without stopping traffic on the roadway.
07/16-09/16	**Canadian National Railway – Western Region, North Shore Industrial Line – Mile Post 002.48 Vertical Lift Bridge over Burrard Inlet Second Narrows, British of Columbia, Canada.** *Inspector.* Inspector of the mechanical systems, in conjunction with electrical inspection, to identify the existing condition of the bridge and document deficiencies.

Firm	AECOM Technical Services, Inc.		
Ken Butler, PE Senior Vice President, Civil		Years of Relevant Experience with this Employer	28
		Years of Relevant Experience with Other Employer(s)	12
Degree(s) / Years / Specialization	BS/1984/Civil and Environmental		
Active Registration Number / State / Expiration Date	31476/LA/3.31.25 Additional active license: PE VA, FL, MD, PA, SC, NC, CA, DC, DE, NY, NJ		
Year Registered	1991	Discipline	Civil Engineer
Contract Role(s) / Brief Description of Responsibilities	**Cable Stay/Suspension Expertise.** *Ken brings 37 years of experience and national recognition for his performance on high profile bridge projects. He has been involved with the management, design, and construction of 35 major and complex bridges worth more than $5 billion in construction cost. He has played significant roles on eight major alternate delivery projects including: the $463 million Harry W. Nice/Thomas "Mac" Middleton Bridge in Newburg, MD; $449 million Frederick Douglass Memorial Bridge Project in Washington D.C.; $227 million historic Arlington Memorial Bridge design build project in Washington D.C.; the $1.3 billion PPP I595/I95/I75/FLTP Corridor Improvements in Fort Lauderdale, Florida; the $250 million design build Carolina Bays Parkway in Myrtle Beach, South Carolina; the $1.5 billion design build Tren-Urbano mass transit project in San Juan, Puerto Rico; the $150 million design build Indian River Inlet cable stayed bridge replacement in Rehoboth Beach, Delaware; and the $1.3 billion PPP Edmonton LRT project (Tawatina extradosed cable stayed bridge) in Edmonton, Alberta, Canada. He has provided designs, project management, construction support and construction engineering inspection services to 14 state agencies, as well as several toll authorities.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
06/14 – 06/18 (Bridge Lead) 06/18 – present (QA Lead)	**LADOTD I-49 Connector, Lafayette, LA.** ***Principal Structure Lead.*** Ken serves as Principal Structure Lead for the 3.5-mile long elevated precast segmental and prestressed concrete u-girder urban viaduct; four flyover connector ramps; three multi-level interchanges; two elevated SPUI's (signature bridges – arches and cable stayed); eleven overpass structures; three railroad bridges; and 27,000-feet of retaining wall.
10/19 – present	**MDTA Harry W. Nice/Thomas "Mac" Middleton Bridge Replacement Project, MD.** *Design Manager.* Ken serves as the design manager for this 1.9-mile long bridge over the Potomac River. Project includes major bridge design over a navigable channel; environmental permitting; 200-ft deep foundations; roadway design; staged construction; and demolition of the existing bridge over the Potomac River. As design manager, Ken is responsible for managing 60+ designers for designs, plans, special provisions, shop drawings, and working plans for all design disciplines; implementing and overseeing the QA/QC program; integrating with contractor, designers and owner in project office; budget and schedule compliance; and constructability and VE reviews. He has full professional liability for all engineering decisions and the final work product. The design took 1-year and he continues to provide construction support to the Design Builder.

08/17 – present	**DDOT Frederick Douglass Memorial Bridge Project, Washington, DC.** *Design Manager.* Ken serves as the design manager for this signature bridge project over the Anacostia River. Creation of a signature bridge and overall project aesthetics were key drivers behind the project to satisfy the Commission of Fine Arts and the National Capital Planning Commission. The 1,445-ft long bridge is comprised of three springing cable stayed arch spans at 452.5'-540'-452.5' supported by cable stays. The project includes traffic ovals; major Interstate reconstruction; complex MOT; utilities; new river bridge being built parallel to existing bridge; roadway transitions; H&HA scour; drainage and erosion and sediment control; environmental permitting; roadway lighting; bike/pedestrian facilities; landscape; etc. Duties include managing 130 designers for designs, plans, special provisions, shop drawings, and working plans for all design disciplines; implementing and overseeing the QA/QC program; integrating with contractor, designers and owner in project office; budget and schedule compliance; and constructability and VE reviews. He has full professional liability for all engineering decisions and the final work product. Load rating as well as an Owner & Inspection Manual were also part of the design scope. Ken began this project in 2016 during the pre-bid phase and was committed full time for two years through the design and construction. The design took 1.5 years and he continues to provide construction support to the Design Builder.
10/18 – 12/21	**NPS/FHWA-EFLHD Arlington Memorial Bridge, Washington, DC.** *Designer of Record.* Ken served as the Designer of Record for this historic arch bridge rehabilitation project over the Potomac River. Primary components of the project included complete re-decking of the 2,162-foot-long bridge with precast concrete deck panels using stainless steel reinforcing; complete replacement of interior arch supports; and total replacement of the central bascule span with 280-foot-long fixed steel girder spans. Ken's roles on Arlington Memorial Bridge and the Frederick Douglass Memorial Bridge Project were concurrent, and Ken had full professional liability for engineering decisions and final work product.
01/14 – 12/20	**City of Edmonton Tawatina Bridge on Valley Line SE, Edmonton LRT, Alberta, Canada.** *Technical Advisor.* Ken was a technical advisor responsible for reviewing the extradosed cable stayed bridge base design & performance specifications; supporting the owner during technical proposal reviews and bid selection; and providing technical input during construction to the owner. The concrete segmental extradosed cable stayed bridge is 1,248-ft long over the North Saskatchewan River and includes 290-ft of cable stay spans
03/11 – 08/14	**TxDOT, IH-35 Bridges over Brazos River, Waco, TX.** *Technical Director.* Ken served as the technical director for these twin extradosed cablestayed bridges that serve as the gateway entrance for the city of Waco, Texas. He was responsible for the technical development of the bridge design. His services included input and oversight of design methods & criteria, stay configuration, superstructure details, erection schemes, and analysis procedures. The bridge is a 3-span structure 185'-250'-185' (steel trapezoidal box superstructure). As Technical Director he was also responsible for assigning the design team as well as the quality control team.
01/11 – 08/14	**LADOTD (State Project No. 700-92-0016) Florida Avenue Bridge, New Orleans, LA.** *Bridge Lead.* Bridge lead for the design efforts for the $100 million 1,500-foot-long 5-span main unit crossing the Inner Harbor Navigational Canal. Directed the preliminary and final design phases for the section of bridge, which includes a 470-foot main span over the canal with 156-foot vertical and 300-foot horizontal navigational clearances. Two alternates were developed during the final design for the main unit including steel plate girders and cast-in-place variable depth concrete box girders. The overall project consisted of approximately two miles of elevated structure including high level approaches comprised of prestressed concrete bulb-T girders and curved steel girder interchange ramps.

Firm	AECOM Technical Services, Inc.		
 **Barry Colford, PE** Technical Expert - Suspension Bridges		Years of Relevant Experience with this Employer	9
		Years of Relevant Experience with Other Employer(s)	35
Degree(s) / Years / Specialization	BS / 1978 / Civil and Structural Engineering		
Active Registration Number / State / Expiration Date	PE092017 / PA / 9/30/2025 Additional active licenses: DE, NJ, NY		
Year Registered	2021	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	**Cable Stay/Suspension Expertise.** *Barry has over 40 years of experience in the inspection and preservation of suspension bridges. From 1996 to 2015, in his previous role as Chief Engineer of the Forth Road Bridge, a 3300 ft main span suspension bridge in the UK, and since 2015 with AECOM as the North American Complex Bridge Preservation Lead. He oversaw the first main cable inspection carried out using NCHRP Report 534 on Forth Road Bridge and the subsequent Main Cable Replacement/Augmentation Study. He also oversaw the Orthotropic Deck Studies which included options to replace the 12.7 mm deck plate and laboratory testing with deck sections and various surfacing materials. He also was responsible for the successful completion of the tower strengthening project on the bridge. Since 2015, he has led AECOM's Complex Bridge Preservation Practice in N America and has led rehabilitation projects on the twin bridges of the Delaware Memorial Bridge, the Anthony Wayne Bridge, South Tenth St Bridge, George Washington Bridge, and Ben Franklin Bridge. He is currently leading AECOM's technical lead on projects on MacKay Bridge for HHB; the Rehabilitation of the Verrazzano Narrows Bridge and Mount Hope Bridge in RI.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
2022 – present	**Murray MacKay Suspension Bridge Suspended Spans Support Services, Halifax Harbour Bridges, Halifax, Nova Scotia.** ***Technical Lead.*** Technical Lead on the 30% Conceptual Design for a Main Cable and Anchorages Dehumidification System on the MacKay Bridge for HHB in June 2022. Following that submission, AECOM performed an independent desktop review of the A. Murray MacKay Bridge main cable strength evaluation (originally prepared in 2021) and developed recommendations for 12 inspection panels / locations to be opened throughout the cable to supplement the previous information. Seven panels were opened in 2023 and inspected by an AECOM / HEC team and the remaining five panels will be opened in summer 2024. AECOM will then determine the current cable strength and provide an estimate of future strength loss. AECOM identified a potential issue with cable band slip and carried out a check calculation for HHB in 2023. In addition, the AECOM / HEC Team has carried out an inspection and strength evaluation of the cable bent saddle bolts and produced specifications and drawings for the replacement of the bolts at all four saddles. This will be carried out in the summer of 2024 along with the cable inspection.
2019 – present	**Ben Franklin Suspension Bridge Main Cable and Anchorages Dehumidification, Delaware River Port Authority (DRPA), Camden, NJ.** ***Project Director, and Technical Expert.*** Barry was responsible for leading the design peer review and design changes to the original contract and overseeing the construction on site. In addition, he provided support to DRPA during peer review design and construction of main cable and anchorage dehumidification and cable investigation and repairs.

2016 – 2021	**Anthony Wayne Suspension Bridge Cable and Anchorage Dehumidification, Ohio Department of Transportation (ODOT) District 2, Toledo, OH.** ***Project Director and Technical Expert.*** Barry provided support to ODOT during the design and tendering stage of the cable and anchorages dehumidification work through to construction and commissioning. A main cable investigation was also carried out. Barry was responsible for overseeing the outline design and performance specification; the tender documents and drawings being issued; responding to tenderers questions and issuing bulletins; attending tenderers interviews and supervising construction services through to commissioning and post installation monitoring
2017 – 2021	**South 10th Street (Philip Murray) Suspension Bridge, Cable and Anchorage Dehumidification, Allegheny County Department, Pittsburgh, Pennsylvania.** ***Project Director.*** Barry was responsible for the overall design of the cable and anchorage dehumidification system and the construction supervision on site. The project included preliminary field survey, design, design reviews and approvals, and involvement with plant and control shop trials at relevant stages of the project relating to Plant and Control systems / Integration and Commissioning. Our post-construction works involved developing a maintenance specification for ensuring plant and system and maintained correctly to maximize plant longevity and reliability. In addition, we have been appointed to carry out remote system monitoring to verify system performance
2022 – present	**Rehabilitation and Preservation of the Verrazzano Narrows Suspension Bridge (Contract No. VN - 8Q), MTA Construction and Development, Bridges & Tunnels Business Unit (B&T BU), New York City, New York.** Project Lead. AECOM is the Owner's Engineer and Barry is Project Lead on work that includes the installation of a main cable dehumidification system; a main cable acoustic monitoring system; suspender testing and replacement with new socket detail; cable band bolt replacement; hand rope and stanchion replacement and detailed review and check of remaining strength calculations and FS calculations for the main cables and the suspender ropes. Reviewing the suitability of the existing power and communications systems is an important part of the project
2022 – present	**Mount Hope Suspension Bridge, Rhode Island Bridge Authority (RITBA), Rhode Island.** ***Project Lead.*** AECOM is Owner's Engineer and Barry is Project Lead on the scoping study and detailed design of a main cable and anchorages dehumidification system. This is a design bid build project with contract award scheduled for early 2024. Work includes reviewing all suspension span components including suspenders; main cable acoustic monitoring; cable band bolts and handropes and stanchions as well as navigation lighting. Reviewing the suitability of the existing power and communications systems is an important part of the project.
2015 – 2019	**Delaware Memorial Twin Suspension Bridges Cable Dehumidification, Delaware River and Bay Authority (DRBA), New Castle, Delaware.** ***Project Director and Technical Expert.*** Barry was responsible for producing design and contract documents and overseeing construction management of the project through commissioning. He oversaw the outline design and performance specification, the tender documents and drawings, responded to tenderers' questions, issued bulletins, and attended tenderers' interviews. He was also responsible for AECOM's supervision of the construction and commissioning of the cable dehumidification system.
2018 -2021	**MTA/B&T Bridges & Tunnels, New York City, New York, Project AW-28.** ***Technical Lead and Project Director.*** AECOM assisted the MTA with a risk based asset management methodology to prolong the service life of all their bridges and highway structures including the four long span suspension bridges (the Verrazzano Narrows, Bronx Whitestone, Throgs Neck and Robert F. Kennedy Bridges. The work involved peer reviewing consultants' proposals and advising the Authority on the prioritization of spending on the 20 year Capital Program. AECOM has developed an innovative optimization and prioritization methodology based on a risk analysis that takes into account the vulnerability and criticality of elements on the bridges. As part of this work AECOM produced a report on the feasibility of replacing or augmenting the cables on all four suspension bridges. . Responsibilities included leading the AECOM team and establishing the risk based criticality and vulnerability ratings for the bridge and tunnel elements

Firm	**AECOM Technical Services, Inc.**		
 **Kevin Ahearn, PE** Unmanned Aerial Systems (UAS) Pilot		Years of Relevant Experience with this Employer	10
		Years of Relevant Experience with Other Employer(s)	0
Degree(s) / Years / Specialization	BS / 2014 / Civil Engineering		
Active Registration Number / State / Expiration Date	55336 / MA / 6/30/2026 Additional active licenses: NH, CT, VT, ME		
Year Registered	2019	Discipline	Civil Engineer
Contract Role(s) / Brief Description of Responsibilities	**Unmanned Aerial Systems;1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges; 12. FAA Certified UAS Pilot.** *Kevin will be an Unmanned Aerial Systems (UAS) Pilot for this project. He is a Certified Bridge Inspector since 2014 and is a structural engineer with experience in inspection, load rating, and rehabilitation of highway bridges and tunnels. His inspection experience includes cable stayed, network arch, truss, post-tensioned segmental concrete box girder, vertical lift, swing, and bascule bridges. He is a FAA Part 107 UAS Pilot since 2018. He has presented on drone inspection applications for the MassDOT Transportation Innovation Conference, Boston Society of Civil Engineers, UAS Peer Exchanges, and MassDOT bridge inspection staff. Training: NHI Safety Inspection of In-Service Bridges (2014), NHI Bridge Inspection Refresher (2024 & 2019), NHI Fracture Critical Inspection Techniques for Steel Bridges (2016), NHI Bridge Inspection Techniques for Nonredundant Steel Tension Members Refreshers (2024), FHWA Introduction to Element Level Bridge Inspection (2015), MEWP Safety Training, ITC Level 1 sUAS Thermography (2021), FAA Part 107 sUAS Recurrent Training (2023, 2021, & 2020).*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
09/13 - present	**MassDOT, Complex and Statewide Bridge Inspection, Statewide, MA.** ***Bridge Inspection Team Leader and UAS Pilot.*** These structures have included truss, arch, cable stay, network arch, prestressed concrete segmental box girders, and movable bridges. Notable bridges include the Zakim (cable stay), DiTomasso (cable stay), Tobin (cantilever truss), Braga (cantilever truss), Whittier (network arch), McArdle (Bascule), and Fore River vertical lift bridges (temporary acrow and new). Performed UAS operations to support inspections using various types of drones. UAS flights were utilized as a means of inspection access for hard-to-reach areas, to develop orthomosaic imagery of bridge components, or to obtain supplemental visual imagery of bridge features and adjacent area. Some flights were performed in controlled airspace and required FAA airspace authorizations through the Low Altitude Authorization and Notification Capability (LAANC) or FAA Drone Zone web portal.
02/19 - present	**MBTA, Bridge Inspection, Statewide, MA.** ***Bridge Inspection Team Leader and UAS Pilot*** for the in-depth inspection of commuter rail, freight rail, highway, and pedestrian bridges throughout the Greater Boston Area. The structures have included steel through girder and floorbeam systems, historic truss, prestressed concrete box beam, timber trestle, and reinforced concrete deck arch bridges. Performed UAS operations to support inspections as well as to capture photos and videos of the bridges for inventory purposes. Inspection reports also developed recommendations for maintenance and repair as well as order of magnitude cost estimates.
10/23 – 02/24	**CTDOT, Devon Bridge Interim Repairs, Milford/Stratford, CT.** ***Bridge Inspection Team Leader*** for the rehabilitation level inspection of the Devon Railroad Bridge. The bridge is a historic pin connected truss structure which carries four tracks of Metro North Railroad over the Housatonic River. The bridge is approximately 1,069' long with twin structures, consisting of a double leaf through-truss Scherzer rolling lift bascule main span and pin connected through truss approach spans. The rehabilitation is intended to extend the service life of the bridge by 10 to 15 years until a replacement can be designed and constructed.

03/14 – 09/16	**Lafourche Airport Connector Road EA, Port Fourchon, LA.** ***Environmental.*** Lafourche Parish and the Port partnered to provide this important new connection between the Port's upland and coastal facilities. The DOTD had not provided funding for the EA but was collaborating with the Parish and Port on this effort. Derek led the development of the draft preliminary EA, design, and the public and agency coordination tasks. AECOM developed a TIGER Grant application as well. *(H number was not available during project duration)*
10/22 – 12/23	**Puerto Rico Highway and Transportation Authority (PRHTA), Safety Inspection of In-Service Bridges.** ***Bridge Inspection Team Leader, Tunnel Inspection Team Leader, and UAS Pilot for this inspection contract.*** Performed inspection of the PR-52 twin structures over PR-714 and La Palama Creek in Salinas (Br-2038 and Br-2039), La Plata River Cable Stayed Bridge, Maunabo Tunnels, and Minillas Tunnel. UAS operations were performed for visual inspection of bridge components that were not accessible via traditional access methods and for tunnel support facilities. Developed the PRHTA Tunnel Safety Inspection Manual.
02/21 – 06/23	**MaineDOT / New England Transportation Consortium, Investigating Thermal Imaging Technologies and UAV to Improve Bridge Inspections**. ***Principal Investigator and Project Manager for this research project.*** The research project included evaluating thermal imaging sensors and drones to determine whether the technology is effective to determine the existence and extent of concrete delamination. The work included evaluation of available technologies and field verification of the technologies, as well as development of inspection and analysis protocols. AECOM was able to complete the required work under budget with the remaining funds used to provided introductory virtual and in-person training on thermal cameras and drones to Department of Transportation bridge inspection staff.
06/23	**City of Manchester, Queen City Bridge Project, Manchester, NH.** ***UAS Pilot to support this truss bridge rehabilitation project.*** Performed UAS operations during construction to visually inspect the bridge fascia to identify the condition of the existing fascia stringers and steel protective coating. The UAS imagery was used to determine the limits of the Contractor's painting operations.
12/17 - 11/22	**City of Boston, Northern Avenue Bridge Project, Boston, MA.** ***Bridge Inspection Team Leader, Staff Engineer, and UAS Pilot for this bridge project.*** The bridge is a historic four span, triple barrel through truss swing bridge with pin-connected truss members. AECOM performed an in-depth rehabilitation level inspection of the bridge in 2018 to evaluate rehabilitation versus replacement and a safety inspection in 2022 to identify structural deficiencies or safety hazards requiring repair/stabilization until the replacement bridge could be constructed. Performed UAS operations to verify condition of non-critical members and obtain bridge imagery to be used during the design process.
09/20	**ODOT, Ironton Russell Bridge UAS Bridge Inspection Guidelines.** ***Independent Reviewer for UAS bridge inspection guidelines to provide feedback and suggestions for improvement.*** AECOM developed this manual to be generic for bridges throughout the state with an emphasis on the recently completed cable stayed Ironton Russell Bridge. The guidelines include discussion on airspace considerations, UAS accessibility challenges, UAS airframes and sensors, flight operations and planning, emergency procedures, and common hazards.
07/08 – 09/10	**Portland-Milwaukie Light Rail Project, Willamette River Transit Bridge, Portland OR.** ***Environmental.*** Derek supported the built environment analysis, assisted modestly with the design (elements related to complete streets and the approaches), and worked on a shared environmental justice impact report and mitigation that were caused by a combination of this and other projects requiring the construction of a new facility for the light rail vehicles. *National Honor Award. 2016 (ACEC), Best Highway/Bridge Project Award, 2016. Engineering News-Record (ENR), Northwest. Project of the Year, 2016. American Segmental Bridge Institute (ASBI)*
10/05 – 04/07	**Maryland Transportation Authority (MDTA), Annual Facilities Inspections, Statewide, MD.** ***Bridge Inspection Assistant Team Leader*** for the 2015 biennial inspection of the Millard E. Tydings Bridge (4,839 feet long) and deck truss subunit (T35-T43) of the William Preston Lane Jr. Bay Bridge (4,590 feet long). Both deck truss bridges are complex, long span structures with pin and hanger suspended trusses. The inspection utilized rigging, free climbing, and under bridge inspection units.

Firm	AECOM Technical Services, Inc.		
 **John Delp** Unmanned Aerial Systems (UAS) Pilot		Years of Relevant Experience with this Employer	27
		Years of Relevant Experience with Other Employer(s)	3
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	**Unmanned Aerial Systems; 12. FAA Certified UAS Pilot** *John will be an Unmanned Aerial Systems (UAS) Pilot for this project. He has extensive experience on both Government and Commercial UAS flight operations and is an expert in planning, operations, safety, maintenance logistics, engineering support, and command and control. Commercially, he has flown and led successful UAS projects for the inspection of critical infrastructure such as wastewater facilities, earthen dams, and bridges; highly accurate photogrammetric land surveys; thermal imaging; and videography. While trained and qualified to fly the DJI line of products, he has in-depth knowledge and experience with additional UAS Air Vehicles and systems. This also includes technology that supports data processing techniques used in UAS imaging services and product delivery. Mr. Delp has extensive experience in FAA waiver filing, airspace deconfliction, and has deployed extensively to lead and accomplish UAS projects across the United States for a wide range of AECOM clients.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
05/21- 08/21	**This North Carolina Department of Transportation (NCDOT), Albemarle Sound Bridge Inspection, Washington and Chowan Counties, North Carolina (2021).** ***Senior Remote Pilot.*** Project carries NC 32 over Albemarle Sound. As part of a comprehensive bridge inspection, the client requested thermal imagery of the bridge deck to evaluate the identification of concrete delamination faster on this 3.5-mile-long structure. Two areas of the structure were collected and analyzed by bridge inspectors and several areas were identified from the aerial imagery for further analysis. Utilizing traffic control to close portions of the bridge for short durations, the UAS was able to fly low and slow directly over the bridge structure to collect the required imagery. Senior Remote Pilot in Command (RPIC) responsible for safe operation of UAS to obtain the thermal imagery. Briefed field personnel on safe UAS operations and coordinated with project team daily.
05/21 – 08/21	**Lake Tillery ASR Bridge, Stanly and Montgomery Counties, North Carolina, (2021).** ***Senior Remote Pilot.*** Lake Tillery ASR Bridge carries NC 24/27 over the Pee Dee River and Lake Tillery. Senior Remote Pilot in Command (RPIC) responsible for safe operation of UAS to capture high resolution imagery of five concrete piers that were recently retrofitted to correct the deterioration of the concrete. The imagery collected was combined into 3D models of each pier that can be compared to previous flights in 2018. Bridge engineers will utilize the data to determine the health of the bridge structure and determine if additional remediation measure are required. Ensured airspace was clear from required FAA waivers, coordinated with onsite field personnel, and coordinated with boat captain for flights from vessel.

10/23 – 02/24	**This Connecticut Department of Transportation (CTDOT), Raymond E Baldwin Bridge Inspection, Old Saybrook, Connecticut and Old Lyme, Connecticut (2021).** ***Senior Remote Pilot.*** project was a comprehensive bridge inspection that included multiple disciplines for an overall analysis on the health of the structure. Carrying 8-lanes of Interstate I-95 traffic across the Connecticut River, this structure is vitally important for commuters in the area. In coordination with certified bridge inspectors, high resolution imagery was collected for the entire substructure of the bridge including the concrete piers for crack detection analysis. Utilizing a Phase One Ultra High-Resolution sensor, additional imagery on the concrete piers and other vital bridge elements was collected for analysis. Lidar imagery for the substructure as well as the deck was collected to be included within a 3-D model of the entire project. Careful coordination with the Client, Bridge Owner, Local Law Enforcement, and businesses in the area was required each day of the inspection. Senior Remote Pilot in Command responsible for planning and executing complex flight operations including flights from a vessel on the river to collect the necessary imagery. Prior to lidar collection, coordinated with survey crew chief to confirm Ground Control Points (GCP's) were set and captured during flight. Multiple launch and recovery areas were utilized to ensure VLOS to obtain project goals. Briefed field personnel on safe operations and coordinated delivery of imagery to processing team.
06/20 – 10/20	**This Kentucky Transportation Cabinet (KYTC), Abraham Lincoln Cable Stayed Bridge Inspection, Jefferson County, Kentucky (2020)**. ***Senior Remote Pilot.*** Project was a comprehensive routine and fracture critical inspection of the 6-lane Abraham Lincoln Bridge that carries Interstate 65 across the Ohio River, connecting Louisville, Kentucky, and Jeffersonville, Indiana. The bridge has a total length of 2,100 feet and a combined total of 88 cables. Remote Pilot in Command (RPIC) responsible for safe operation of UAS to inspect the stay cables and concrete support towers for deficiencies. Coordinated duties between inspection crew that consisted of a sensor operator and structural engineer. Multiple launch and recovery areas were utilized to ensure VLOS to obtain project goals. Ensured airspace was clear from required FAA waivers, coordinated with onsite project manager, and processed data eachday for post report writing.
03/19 – 05/19	**Virginia Department of Transportation, I-95/I-495 over Cameron Run Bridge Inspection, Fairfax County, Virginia (2019).** ***Remote Pilot in Command (RPIC).*** This project was part of a routine inspection of the I-95/I-495 bridge over Cameron Run. Responsible for safe operation of UAS to inspect the pier caps of this 300' wide bridge. Coordinated duties between inspection crew that consisted of a camera operator and structural engineer. Multiple launch and recovery areas were utilized to ensure VLOS to obtain project goals. Flights occurred within the DC flight restricted zone so careful coordination with the TSA and FAA were required prior to approval to conduct flight operations. Coordination of on-site police presence was also required.
03/19 – 05/19	**Maryland Department of Transportation (MdTA) I-695 Baltimore Beltway Inner Loop Bridge Inspection, Baltimore County, Maryland (2019)**. ***Remote Pilot.*** Project to inspect multiple bridge piers for the I-695 Inner Loop Bridge over Bear Creek. Remote Pilot in Command (RPIC) responsible for safe operation of UAS to capture photos of concrete bridge piers. Ensured airspace was clear from required FAA waivers, coordinated with onsite field personnel, and coordinated with boat captain for flights off vessel.

Firm	AECOM Technical Services, Inc.		
Travis Baker, PE *(MPR 4)* Design Repairs/ Rehabilitation Plan		Years of Relevant Experience with this Employer	16
		Years of Relevant Experience with Other Employer(s)	2
Degree(s) / Years / Specialization	BS/2005/Civil Engineering		
Active Registration Number / State / Expiration Date	27019 / KY / 06/30/2023 Additional active licenses; OH, OK		
Year Registered	2009	Discipline	Civil Engineer
Contract Role(s) / Brief Description of Responsibilities	**MPR 4. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges; 3. Society of Professional Rope Access Technician (SPRAT) Certified.** *Travis has nearly 20 years of experience completing design calculations, plan sets, repair specifications, load ratings, and inspections for many types of single, multi, and long-span bridges. He has completed design calculations, plan sets, and repair specifications for single, multi, and long-span bridges. He has worked on a number of bridge types and components including trusses, rolled beams, and plate girders*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
01/22- present	**Brent Spence Bridge Corridor for the Kentucky Transportation Cabinet and Ohio Department of Transportation.** ***Rehabilitation Lead.*** Planned repairs to the 1,740-foot long three-span double deck through truss over the Ohio River include improvements to lighting, access, drainage, and miscellaneous steel repairs.
01/18-present	**Bridging Kentucky for the Kentucky Transportation Cabinet.** ***Design Team Lead.*** Scoping and subsequent rehabilitation and replacement plans were developed for over 40 bridges in nearly 12 months as part of a statewide effort to improve safety, access, and mobility. The rehabilitations included various repairs such as patching, joints replacements and overlays, as well as full superstructure replacements. Some of the bridges had historic or other environmental challenges to overcome. Extensive cross-discipline coordination was required to produce Plan, Specification, and Estimate packages on an expedited schedule. Select bridges include: • 032C00032N: Rehabilitation of a historic 180' long through truss originally constructed circa 1932. The rehabilitation consisted of joint replacements, splice plate and tie plate replacements, lower lateral bracing repairs, stringer repairs, heat straightening of impact-damaged sway bracing, historic steel railing repairs, and substructure repairs. • 019B00003N: Rehabilitation of a historic 147' long through truss with two 47' approach spans, consisting of approach span superstructure replacement, structural steel repairs/strengthening, historic railing replacement, truss deck replacement, and substructure repairs. Involved notable coordination with project environmental staff and Kentucky SHPO. • 003C00050N: Rehabilitation of a historic 58' long pony truss originally constructed circa 1890. The rehabilitation consisted of steel grid deck replacement, truss member replacements, truss pin replacements, stringer replacements, and railing replacement. • 064B00038N: Rehabilitation of a historic 474' long multi-span through truss originally constructed circa 1904. The rehabilitation consisted of a deck overlay, deck joint replacements, masonry substructure repairs, pier cap replacements, bearing replacements, addition of retaining walls for slope repairs, and miscellaneous steel repairs. Railroad coordination was required due to the proximity of the bridge to an adjacent railroad bridge.

01/14-12/15	**Kentucky Transportation Cabinet, Fracture-Critical Inspection of Four Ohio River Bridges, KY.** *Bridge Inspector Team Leader.* An arms-length inspection of all fracture critical members and fatigue sensitive details was conducted for the following Ohio River Bridges and their approaches, I-71/1-75 Brent Spence Bridge at Covington, KY; US 25 Clay Wade Bailey Bridge at Covington, KY; KY 10S Carl D. Perkins Bridge at Greenup County, KY; and William H. Harsha Bridge at Maysville, KY.
01/10 – 2/11	**Kentucky Transportation Cabinet, Fracture-Critical Inspection of Four Ohio River Bridges, KY.** *Inspection Team Leader.* An arms-length inspection of all fracture critical members and fatigue sensitive details was conducted for the following Ohio River Bridges; US 25 Clay Wade Bailey Bridge @ Covington, KY, KY 17 John A. Roebling Bridge @ Covington, KY, KY 56 Earle C. Clements Bridge @ Shawneetown, IL, US 62 William H. Harsha Bridge @ Maysville, KY Structure types include through truss, deck trusses, a historic suspension bridge and a cable stayed bridge. The inspections were performed using man-lifts, snooper trucks, and climbing techniques with rope access rigging.
04/07 – 04/08	**Ohio Department of Transportation In-Depth Inspection and Load Rating of US 33 Pomeroy-Mason Bridge, OH.** *Inspection Team Leader.* An in-depth inspection was performed for this 1,185-foot cantilevered truss over the Ohio River. The bridge also includes twelve approach spans, consisting of five spans of built-up through girders and seven spans of simple span beams. The main truss members were measured for as-built dimensions and section loss to obtain data for use in load rating calculations.
08/15 – 8/16	**Kentucky Transportation Cabinet Load Rating of Clay Wade Bailey Bridge over the Ohio River, OH.** *Project Engineer for the load rating of primary member connections (gusset and splice plates of chords, diagonals and verticals) and the floor system for this three-span cantilever through truss.* All components were load rated using LFR methodology for Inventory and Operating Ratings. The components were rated for posting using Kentucky Truck Types 1-4 and Special Hauling Vehicles SU4-SU7.
09/14 – 0/14	**Davenport Transportation & Rigging LLC, Load Rating of Southside Avenue Bridge over CSX Railroad, IL.** *Project Engineer for the load rating of a two-span, curved steel girder bridge.* The crossframes of the curved girder structure are considered main load carrying members and were therefore including in the rating analysis. The structure was modeled for superload vehicles using the load factor method.
08/06 – 4/09	**Kentucky Transportation Cabinet, Load Rating and Repairs for 1-275 Combs Hehl Twin Bridges over the Ohio River, KY.** *Design Engineer.* After finding out-of-spec steel in several locations on the bridge, the Kentucky Transportation Cabinet requested that the out-of-spec steel be repaired and a load rating be performed on the primary truss members and their connections. Our team partnered with another consultant to develop repair plans, as well as a structural model to be used for HS20 and superload load ratings. The ratings were completed in accordance with the LFD design methodology and the FHWA guidance on gusset plate ratings.
09/08 – 1/09	**Edwards Moving and Rigging, Load Rating of Access Bridge, KY.** *Design Engineer.* A load rating was performed on the single-span plate girder access bridge to the Eastern Kentucky Power Cooperative. Merlin Dash was used to analyze a 16 axle dual-tandem trailer used to deliver a 370,000 lb load to the Cooperative.

Firm	AECOM Technical Services, Inc.		
Gary Maji, PE Bridge Rehab/Repair Design Task Leader		Years of Relevant Experience with this Employer	25
		Years of Relevant Experience with Other Employer(s)	11
Degree(s) / Years / Specialization	BS/1988/Civil Engineering		
Active Registration Number / State / Expiration Date	PE.0043044/LA/3.31.25 Additional active license: PE CO, UT		
Year Registered	2018 (LA)	Discipline	Civil Engineer
Contract Role(s) / Brief Description of Responsibilities	*Gary has been in responsible charge of the project/program management, design, rehabilitation, and reconstruction of urban streets, highway bridges and railroad bridges and box culverts built in accordance with AASHTO and AREMA specifications. He has led multi-disciplinary teams throughout the development of the conceptual, preliminary and final design phases and on-call engineering contracts for federal, state and local agencies. His experience includes the design and preparation of steel and concrete girder bridge plans, replacement and rehabilitaion, project special provisions and project cost estimates formatted in accordance with capital project guidelines.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
05/23 - present	**LADOTD, Bridge Preventative Maintenance IDIQ, Baton Rouge, LA.** ***Program/Project Manager.*** Responsible for the design and rehabilitation and/or replacement of DOTD bridge projects developed in accordance with the DOTD Bridge Design and Evaluation Manual. Under this contract Gary has led the scoping, preliminary and final design of the following projects: • LA 561 Bridge over Boeuf River (H.001970). Preliminary bridge and roadway design for the replacement of the existing truss bridge with a 6-span, 700-ft LG-63 girder bridge in Caldwell and Richland Parishes. • LA 10 Bridge over Bayou Carron (H.011993). Final bridge design for the replacement of the LA10 Bridge over Bayou Carron in St Landry Parish. The AECOM team is supporting the final bridge design efforts using a blended-team approach with DOTD's environmental, geotechnical and roadway groups. • LA 641 Bridge over I-10 (H.015603). Scoping the bridge superstructure inspection, load rating analysis, and rehabilitation design for this 1,584-ft multi-span, pretensioned, concrete girder structure. Several of the concrete girders were damaged due to a vehicle impact and bridge repairs are warranted to improve the bridge load rating and extend the bridge service life. • LA 6 Bridge over Red River (H.013832). Currently scoping the site inspection and evaluation of this 1,879-ft, multi-span, steel plate girder structure that includes a 975-ft long, two-girder, 3-span main unit. This study effort will develop and evaluate deck rehabilitation alternatives to arrest bridge deterioration and extend bridge service life.
03/21 – present	**LADOTD, I-49 Connector, Lafayette, LA.** ***Structure Task Manager.*** Conceptual and preliminary design of this 7-mile reconstruction of I-49 through downtown Lafayette, LA. This project has a budget projected over $1 billion and includes approximately 20 bridges and numerous retaining walls. Bridges span over several interchanges, Vermilion River, short line railroads and a roadway grid network through the Lafayette Central Business District. Structure designs included the evaluation of a 2-mile viaduct structure and a signature span structure considering cast-in-place segmental, spliced concrete tub girders, arched-rib and cable-stayed structure types that integrated context sensitive solutions into the bridge and structure design. Gary recently submitted two conceptual design submittal packages for highway grade separations across BNSF and LDRR track.

05/20 – 05/23	**South Academy Blvd over BNSF Rehabilitation, El Paso County, CO.** *Structure Lead.* Bridge rehabilitation design for an 800-ft, 6-span, steel plate girder bridge over BNSF tracks in Colorado Springs. As part of the bridge preservation efforts, Gary's team conducted nondestructive testing to evaluate the existing deck condition, performed a fatigue assessment and load rating analysis to develop retrofits for fatigue prone details and identified expansion joint and bearing repair and replacement details to extend the bridge design life. Design efforts include railroad coordination and design submittals developed in accordance with the UPRR/BNSF RR Grade Separation Guidelines.
05/09 – present	**City of Fort Morgan, I-76 Corridor Design, Fort Morgan, CO.** *Project Manager, Structures Task Manager.* Preliminary and final design of more than 27 structures along I-76 within a 16-mile corridor. This design work required safety improvements at four interchanges and complete reconfiguration at three other interchanges. Bridges crossed over canals, county roads, waterways, and the BNSF railroad. As part of the design of the I-76 Bridges over BNSF and Beaver Creek, Gary managed the development and submittal process for the conceptual, preliminary and final design requirements performed in accordance with the UPRR/BNSF RR Grade Separation Guidelines.
03/13 – 05/21	**Lemay Avenue over BNSF/Vine Improvements, City of Fort Collins, CO.** *Structure Manager.* Planning and design development for a new bridge crossing over Vine Street and the BNSF Railway tracks in northeast Fort Collins. Using a CM/GC project delivery, Gary's structure team led the design of a single-span bridge, (13) rockery retaining walls, and a pedestrian underpass structure that improves safety and provides multimodal connectivity to this area of the city. Design efforts included railroad coordination and design submittals developed in accordance with the UPRR/BNSF RR Grade Separation Guidelines.
04/16 – 11/20	**CDOT, C-470 Express Lanes D/B, Denver, CO.** *QA/QC Manager.* As part of CDOT's $215 million C-470 Express Lanes Design Build Project, AECOM designed and constructed 16 bridges and 18 overhead sign structures for this 12.5-mile corridor in Denver, Colorado. Bridge designs included widenings, rehabilitations and new construction in accommodate the interstate roadway re-configuration. Signs were designed in accordance with AASHTO'S Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals and CDOT's Bridge Design Manual. As QA/QC Manager, Gary created project work plans, design protocols, and developed a project specific quality manual.
09/18 – 05/19	**LADOTD, I-10 at Loyola Avenue Interchange Design-Build Tender Offer, Kenner, LA.** *Proposal Project Manager and Structural Design Manager.* Interchange improvements at the I-10 at Loyola Drive to provide new direct access ramps to handle traffic to and from the new passenger terminal at Louis Armstrong International Airport. Duties included coordination with the contractor and all design tasks to prepare the proposal along with review and evaluation of multiple alternative technical concepts. Led plan development and quantity calculations for contractor bid.
05/13 – 07/15	**LADOTD Jimmie Davis Bridge, Shreveport, LA.** *Bridge Engineer.* Responsible for the conceptual design and report for bridge replacement and rehabilitation alternatives of the Jimmie Davis Bridge over the Red River. Design efforts evaluated spliced-concrete U-girder, cast-in- place concrete segmental and steel plate girder alternatives.
02/12 – 05/15	**Fossil Creek Trail Underpass at BNSF, City of Fort Collins, Fort Collins, CO.** *Project Manager and Structural Task Leader.* Responsible for the conceptual and preliminary design of a trail underpass structure through an existing 25-ft railroad embankment. Developed design details, structural reports and cost estimates for both bridge and tunneled structure types for approval by BNSF Railway. Designs incorporated E-80 live load conditions developed in accordance with AREMA criteria. Also led efforts for the development and received approval for the PUC underpass agreement.

Firm	AECOM Technical Services, Inc.		
 **Rob Dean, PE** **Design Repairs/ Rehabilitation Plan**		Years of Relevant Experience with this Employer	28
		Years of Relevant Experience with Other Employer(s)	0

Degree(s) / Years / Specialization	BS/1993/Civil Engineering MS/1995/Civil Engineering		
Active Registration Number / State / Expiration Date	0046730/LA/ 09/30/2024		
Year Registered	1999	Discipline	Civil Engineer
Contract Role(s) / Brief Description of Responsibilities	**Design Repairs/Rehabilitation Plan.** *Rob is a licensed professional civil engineer who serves as a Bridge Engineer in the Roanoke, Virginia office. His professional experience encompasses a wide range of projects for public and private clients, involving design of new bridge structures, as well as the inspection, rehabilitation, and renovation of existing structures. His responsibilities include condition assessment, rehabilitation alternatives, computation and checking of design calculations, preparation of plans, specifications, and cost estimates. Mr. Dean is a nationally certified Bridge Inspection and Tunnel Inspection Team Leader.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
04/20-present	**VDOT, Rehabilitation of Interstate 77 Bridges over Clear Fork Creek, Bland County, VA.** ***Task Manager.*** Rehabilitation of four steel bridges on Interstate 77 in Bland County, Virginia. AECOM developed a program for assessment of the existing structure condition, including sampling of the superstructure concrete to test for chloride content, depth of the chloride front, compressive strength and petrographic examination. Based on the results of our investigation, we developed plans for deep hydro-demolition and concrete deck overlay, elimination of deck expansion joints, structural steel repairs, and substructure rehabilitation.
11/20-present	**VDOT, Route 360 Corridor Evaluation of 22 Structures, Fredericksburg District.** ***Task Manager.*** Responsible for coordinating the collaboration of a multi-discipline team on this task to evaluate rehabilitation needs for 22 structures along the Route 360 corridor. Structures range in length up to 500 feet and include both concrete and steel superstructures. Our assessment of the existing structures including infrared thermography, 3D GPR, and digital image mapping, all performed at traffic speeds. The analysis results supported our data-driven process for rehabilitation recommendations and budget prioritization..
08/15-11/20	**VDOT, Route 685 over Craig Creek (Phoenix Bridge), Botetourt County, VA.** ***Task Manager.*** Responsible for bridge design and construction plans. AECOM was commissioned by VDOT to provide engineering services for this project to rehabilitate two 120-year-old steel truss spans over Craig Creek to extend the service life, improve the condition ratings, and increase the live load capacity. This single-lane bridge with a length of 267 feet is the only means of access and emergency service for dozens of residences, so AECOM developed unique modular construction details to allow major rehabilitation of floor beams and complete replacement of all stringers and bracing members in very short windows of road closure..
01/16-11/20	**VDOT, Rehabilitation of 34 Structures in Salem District, VDOT Salem District, VA.** ***Task Manager.*** Responsible for guiding the work of multiple design teams for this task to replace superstructures for 34 bridges throughout the VDOT Salem District. New structure types included concrete and steel superstructures. Staged construction details were developed to maintain traffic during construction. Where staged construction was not feasible, plan details were developed to permit rapid replacement within a 12-hour road closure. Bridge rehabilitation plans were prepared and bundled in multiple advertisement packages.

04/17-present	**VDOT, Rehabilitation of Five Structures in the Lynchburg District, VDOT Lynchburg District, VA.** *Task Manager.* Responsible for oversight of five design teams to make field assessments, site survey, develop sequence of construction, bridge engineering, maintenance of traffic, utility relocations, cost estimating, and specifications. AECOM was commissioned by VDOT to provide engineering services for this project for rehabilitation of five structures. Structures ranged in length up to 650 feet. The scope of rehabilitation included concrete deck replacement, deck hydro-demolition and overlay, structural steel repairs, bearing replacement, substructure repairs, and structural steel painting.
02/18 to 08/20	**VDOT, Route 683 and Route 730 Bridges, Virginia DOT Lynchburg District.** *Task Manager.* Performed quality control review of superstructure and substructure design calculations and bridge construction plans. AECOM provided engineering services for this project for complete replacement of two bridges using prestressed concrete beams. The project was designed on an aggressive schedule because the original bridges were both washed out during a flood, leaving both bridges closed to traffic.
05/18-03/19	**VDOT, Route 3 Bridge over Rappahannock River, Middlesex/Lancaster County, VA.** *Task Manager.* Responsible for coordinating the collaboration of a multi-discipline team for this task to study bridge rehabilitation and replacement alternatives for the Route 3 over the Rappahannock River bridge. The existing bridge is two miles long with a span length of 650 feet over the navigation channel. The study evaluated eight bridge replacement alternatives and provided scoping plans for the recommended alternative based on cost, environmental impacts, constructability, and impacts to traffic.

Firm	**AECOM Technical Services, Inc.**		
 **Ed Zhou, PE** Associate Vice President, Bridge Instrumentation and Evaluation Lead		Years of Relevant Experience with this Employer	30
		Years of Relevant Experience with Other Employer(s)	9
Degree(s) / Years / Specialization	BS/1982/Civil Engineering; MS/1990/Civil Engineering; PhD/1994/Structural Engineering		
Active Registration Number / State / Expiration Date	21330/MD/09.02.24 Additional active license: DE, VA		
Year Registered	1995	Discipline	Civil Engineer
Contract Role(s) / Brief Description of Responsibilities	**Instrumentation & Testing.** *Ed has comprehensive knowledge and experience in multiple aspects throughout the bridge life cycle including structural analysis through finite element modeling, design, inspection, load rating, problem diagnosis, non-destructive evaluation (NDE), structural health monitoring, preservation, as well as repair, retrofit, rehabilitation, and replacement design of many types of bridge structures. He is an expert in fatigue and fracture of steel bridges and served as a past Chairman of ASCE Fatigue & Fracture Committee. Ed specializes in evaluation of existing bridges using a variety of instrumentation/testing/monitoring technologies and application of digital imaging and unmanned aircraft system (UAS) technologies for condition and deterioration assessment. He also has current experience in development of effective asset management tools to support bridge owners for data-driven decisions. Ed is an active member of TRB Committee AKB40 'Testing and Evaluation of Transportation Structures' and has played a key role in development of multiple national guidelines and standards: coauthor of TRB Circular E-C257 'Primer for Bridge Load Testing'; expert panel member of NCHRP Project 20-05 'Load Rating of Bridges and Culverts with Missing or Incomplete As-Built Information'; and co-PI of NCHRP Project 12-81 'Evaluation of Fatigue on the Serviceability of Highway Bridges.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
12/19 – 02/20	**CDOT, Live Load Test for Investigating Concrete Cracking of Pier 5 Straddle Beam of WB-WB Ramp Bridge over C-470 Express Lanes, Douglas County, CO.** ***Technical Leader.*** Responsible for live load testing of reinforced concrete straddle beam (6′-6″ wide by 9′-0″ deep by 81′-0″ long) of Pier 5 of the 9-span prestressed concrete girder structure with a total length of 1,156 ft. The testing was for investigating concrete cracking in the straddle beam discovered during construction before the bridge opened to regular traffic.
04/14 – present	**CTDOT, Two-Year Structural Monitoring of Extradosed/Cable-Stayed Pearl Harbor Memorial Bridge (I-95 over Quinnipiac River) of Post-Tensioned Segmental Concrete Box Girders, CT.** ***Technical Leader.*** Responsible for the development and implementation of a two-year structural monitoring program for the extradosed/cable-stayed 3-span dual structures consisting of posttensioned segmental concrete box girders. Work scope includes: design of a comprehensive structural monitoring system (SMS) consisting of 252 sensors; development of a procurement package including instrumentation plans, performance specifications and qualification requirements; inspection and oversight during system installation by contractor; acceptance testing and commissioning of SMS; specification and oversight of live load and cable plucking tests at beginning, middle, and end of monitoring period; data collection, processing, management, analysis, interpretation and reporting throughout monitoring period; assessment of actual bridge behavior in comparison with analytical predictions by design models; establishment of normal behavior envelopes and anomalous behavior thresholds for sensor measurements; and recommendations to provide guidance for bridge maintenance, inspection, and load rating. Also included in this project is photogrammetric mapping of existing concrete cracks on interior of box girders and exterior of tower legs in 12 areas surrounding crackmeters at beginning, middle and end of two-year monitoring period.

11/20 – present	**VDOT, Route 360 Corridor Evaluation of 22 Structures, Fredericksburg District.** *NDT Task Lead.* Responsible for development and quality assurance review on our program for assessment of the existing structure condition, including Infrared scanning for delamination detection, 3-dimensional ground penetrating radar for deck condition assessment, and digital image mapping for crack detection. Structures range in length up to 500 feet and include both concrete and steel superstructures. The analysis results supported our data-driven process for rehabilitation recommendations and budget prioritization.
05/18 – 06/19	**CDOT, I-76 over Clear Creek Fatigue Study, Adams County (CDOT NPS Contract), CO.** *Lead Instrumentation Engineer.* These bridges are highly skewed, multi-span, steel plate girder bridges that collectively have over 60 known distortion induced fatigue cracks due to a gap between the cross-frame stiffener and the bottom flange. The project included detailed inspections; instrumentation with strain gages and displacement transducers; full scale load testing; data collection and analysis; three-dimensional finite element analysis (FEA); and developing conceptual fatigue retrofit details. Field testing was used to calibrate the FEA to have an accurate tool to evaluate fatigue retrofit strategies. Adjustments to the model such as member properties and boundary conditions, allow the model to be refined to replicate the load test responses.
07/18 – 09/20	**VDOT, Vibration Testing and Evaluation of External P-T Tendons in Segmental Concrete Box Girders of Cable-Stayed Varina-Enon Bridge (I-295 over James River).** *Technical Leader.* Responsible for applying the taut cable vibration measurement (TCVM) method for condition evaluation of external post-tensioning (P-T) tendons inside segmental concrete box girders of the 28-span dual structures built in 1990 with concerns on steel strand corrosion inside the grouted PVC duct.

Firm	AECOM Technical Services, Inc.		
Paul Davis *(MPR 9)* Diving Operations Manager		Years of Relevant Experience with this Employer	>1
		Years of Relevant Experience with Other Employer(s)	11
Degree(s) / Years / Specialization	BA / 2020 / Business Management		
Active Registration Number / State / Expiration Date	N/A		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	**MPR 9. Diver Bridge Inspector.** *Paul Davis has been professionally diving for 10 years. Paul is AECOMs Diving Operations Manager and oversees the logistics and safe completion of commercial diving operations nationwide. He is a former US Navy Diver and has since either performed or supervised over 200 underwater bridge and culvert inspections. He has also performed or supervised underwater inspections on sea walls, submerged pipes, piers, and seawalls across the United States.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
01/22- 01/23	**MDOT Grand Region Underwater Bridge Inspections.** *Diving Supervisor / Dive Inspector.* Underwater Bridge Inspections for 32 bridges and culverts throughout the state. Performed underwater inspection of bridge elements using underwater breathing equipment, physically examined (Level 1) the condition of the structures' underwater components and just above the water line. The inspection was performed according to NBIS and included topographical examination of the stream bed in and around the substructure elements, and the mud line was probed. A Level II intensity inspection was performed on 10% of the inspected surface area. Developed condition evaluation reports and stream bed profiles.
01/21 - present	**MDOT Statewide Underwater Bridge Inspections.** *Diving Supervisor / Diving Inspector.* Underwater Bridge Inspections for 2 movable/ lift bridges and other big bridges throughout the state. Performed underwater inspection of bridge elements using underwater breathing equipment, physically examined (Level 1) the condition of the structures' underwater components and just above the water line. The inspection was performed according to NBIS and included topographical examination of the stream bed in and around the substructure elements, and the mud line was probed. A Level II intensity inspection was performed on 10% of the inspected surface area. Developed condition evaluation reports and stream bed profiles.
01/21 - present	**MDOT Superior Region Underwater Bridge Inspections.** *Diving Supervisor / Diving Inspector.* Underwater Bridge Inspections for 30 bridges throughout the MDOT Superior Regions. Performed underwater inspection of bridge elements using underwater breathing equipment, physically examined (Level 1) the condition of the structures' underwater components and just above the water line. The inspection was performed according to NBIS and included topographical examination of the stream bed in and around the substructure elements, and the mud line was probed. A Level II intensity inspection was performed on 10% of the inspected surface area. Developed condition evaluation reports and stream bed profiles.
01/21 - 02/23	**Wayne County DPS Underwater Bridge Inspections.** *Diving Supervisor / Diving Inspector.* Underwater Inspections for over 40 bridges and other structures throughout Wayne County MI. Performed underwater inspection of bridge elements using underwater breathing equipment, physically examined (Level 1) the condition of the structures' underwater components and just above the water line. The inspection was performed according to NBIS and included topographical examination of the stream bed in and around the substructure elements, and the mud line was probed. A Level II intensity inspection was performed on 10% of the inspected surface area. Developed condition evaluation reports and stream bed profiles.

Firm	**AECOM Technical Services, Inc.**		
 **Joshua Guitreau EI** Structural Engineer I		Years of Relevant Experience with this Employer	2
		Years of Relevant Experience with Other Employer(s)	0
Degree(s) / Years / Specialization	BS/2022/Civil Engineering		
Active Registration Number / State / Expiration Date	EI.0035162/LA/9.30.24		
Year Registered	2022	Discipline	Engineer Intern
Contract Role(s) / Brief Description of Responsibilities	**Bridge Inspector.** *Josh is a Civil Engineering Intern with experience in technical development for transportation engineering projects. Tasks and project experience include bridge design, design plan development, construction cost estimating, document control, and plan checking.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
05/2023-present	**LADOTD, LA-561 Boeuf River Bridge Replacement Project, Hebert, LA.** Responsible for preliminary bridge layout and design, preliminary structural design to generate pile loads, reinforced deck design, as well as performing site visit meeting with LADOTD to assess condition of current bridge and determine new bridge design parameters.
08/2023-present	**LADOTD, LA-10 Bayou Carron Bridge Project, Washington, LA.** Responsible for calculating bridge service loads for LADOTD geotechnical analysis.
10/2023-present	**LADOTD, Bridge Load Rating, Multiple Locations, LA.** Performed substructure analysis on multiple concrete bridge structures for LADOTD bridge load rating project.
11/2022-present	**EBR Parish, College Drive, Baton Rouge, LA.** Performed design check/design analysis for box culvert and box culvert headwall.
07/2022-present	**TxDOT, I-635 LBJ East Design Build Project, Dallas, TX.** Performed construction support activities and quality support/quality assurance tasks for multiple bridge structures throughout project.
11/2022-12/2022	**SDDOT, West River Bridges, Prairie City, SD.** Responsible for design of box culvert wingwall.

Firm	Consor Engineers, LLC		
 **Heath Pope, PE *(MPR 8)*** Vice President		Years of Relevant Experience with this Employer	7
		Years of Relevant Experience with Other Employer(s)	24
Degree(s) / Years / Specialization	BS/1992/Civil Engineering MBA/2004/Old Dominion University		
Active Registration Number / State / Expiration Date	36946/LA/9/30/24		
Year Registered	2012	Discipline	Professional Engineer/Civil
Contract Role(s) / Brief Description of Responsibilities	**MPR 8. Underwater Inspection. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 3.Society of Professional Rope Access Technician (SPRAT) Certified; 4. ADCI – Association of Diving Contractors International Certified Diver; 5. FHWA/NHI 130091 Underwater Bridge Inspection.** *Heath Pope provides more than 31 years of experience with a wide range of inspection and repair/rehabilitation projects. As a professional engineer and commercial diver, he routinely performs above-water and underwater condition assessments and repair design inspections; his experience includes a wide range of structures, including bridges, piers, wharves, relieving platforms, dry docks, quay walls, bulkheads, caissons, pipelines, and fender and mooring systems. Typical clients include state departments of transportation (DOTs), the US Navy, major port authorities, US Coast Guard, and several other federal agencies, municipal, and private clients throughout the US, Canada, and the Pacific Rim. He also serves as a member and contributing author on the ASCE Ports and Harbors committee which developed the new ASCE Waterfront Facilities Inspection and Assessment Standard Practice Manual, published June 2015.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
08/22 – present	**Louisiana Department of Transportation and Development (DOTD) Statewide Underwater Bridge Inspections.** ***Project Manager/ Team Leader.*** Under three consecutive contracts, Consor has performed 1,467 underwater bridge inspections in LADOTD Districts statewide. Consor's most recently completed task order (2022) closed out our second consecutive contract, with the third consecutive contract's first task order also starting in 2022. Inspections have included challenging aspects specifically related to wildlife, fast currents, difficult access, as well as culvert structures requiring penetration dives through extensive silt and debris buildup. This project has included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges from small one-span bridges to larger bridges over major waterways such as I-10 Eastbound/Westbound bridges and US 11 over Lake Pontchartrain, I-10 Eastbound/Westbound over the Bonnett Carre Spillway and multiple bridges over the Red River. Acoustic imaging, 2D and 3D, has also been performed on select bridges, including Mississippi River crossings. NBIS, element-level condition ratings, and as of the start of 2023, SNBI ratings are reported in LADOTD's bridge management database, which switched from AssetWise to InspectX in 2023. CADD inspection drawings, streambed cross sections comparing previous to current soundings, repair recommendations and photo documentation are included as part of each inspection submittal.
01/17 – 08/22	**Louisiana DOTD, Statewide Underwater Bridge Inspections.** ***Project Manager/Team Leader.*** Under seven task orders for two consecutive contracts Consor performed 450+ underwater inspections of bridges in LADOTD districts statewide. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, as well as acoustic imaging. Comprehensive engineering reports were prepared in electronic and hard copy formats.

08/19 – 12/21	**Iowa DOT, Statewide Underwater Bridge Inspections.** *Team Leader/Dive Supervisor.* Consor performed five cycles of statewide underwater bridge inspections, totaling 150+ inspections. Bridges included timber, steel, and concrete construction crossing streams and rivers with swift currents, limited access, and zero visibility. Each inspection required an in-depth engineering report with photographs and CAD drawings illustrating defects. During July 2021, Consor was requested to perform an urgent inspection of the waterline footings of I-74 over the Mississippi River, while construction operations continued. Consor mobilized to the site within three days and coordinated with the contractors onsite to safely complete the underwater inspections without disruption to any construction related activities..
01/17 – present	**Mississippi DOT, Statewide Underwater Bridge Inspections.** *Team Leader/Dive Supervisor.* Consor was selected for the fifth cycle of underwater inspections in July of 2023. To date we have inspected 215+ bridges in accordance with the NBIS. Underwater acoustic imaging and hydrographic surveying was performed on multiple bridges. Diving conditions included fast flow with debris and limited visibility on the Mississippi River. Structural conditions were documented with underwater photography. Non-destructive testing was used to accurately determine remaining section of steel piles, and timber piles were inspected using a timber resistance drill. Soundings were taken upstream and downstream of the bridge while full contours were developed for each bridge site. Reports included NBIS component ratings and element-level inspections.
01/17 – 05/20	**South Carolina DOT, Statewide Underwater Bridge Inspections.** *Team Leader.* Consor has conducted 1,000+ NBIS element-level underwater bridge inspections statewide. Responsibilities included the investigation, evaluation, and recommendation of repairs to the bridges' substructure units. Bridges ranged in size from small, completely submerged box culverts to large, river-crossing trusses, and cable stays. After the inspection, a complete report was prepared for each bridge detailing the findings, rating the bridges in both NBIS and BMS, and stating recommended repairs. 3D modeling was used to assess the progress of channel migration and its encroachment on additional piers. Acoustic imaging was used on bridges to document scour for repair recommendations.

Firm	**Consor Engineers, LLC**		
 **Dustin Noel, PE *(MPR 8)*** VP/Structural Assessment Operations Manager		Years of Relevant Experience with this Employer	15
		Years of Relevant Experience with Other Employer(s)	7
Degree(s) / Years / Specialization	BS/2003/Civil Engineering		
Active Registration Number / State / Expiration Date	079989/Pennsylvania/09/30/2025		
Year Registered	2012	Discipline	Professional Engineer/Civil
Contract Role(s) / Brief Description of Responsibilities	**MPR 8. Bridge Inspection Team Lead. Underwater Inspection. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges; 3.Society of Professional Rope Access Technician (SPRAT) Certified; 4. ADCI – Association of Diving Contractors International Certified Diver; 5. FHWA/NHI 130091 Underwater Bridge Inspection.** *Dustin Noel is a structural engineer with more than 22 years of experience performing NBIS safety inspections using FHWA standards. He is a certified SPRAT Level III rope access engineer performing in-depth, hands-on NSTM (fracture critical) bridge inspections. Dustin's client portfolio includes state departments of transportation and federal agencies, including Louisiana, as well as federal agencies. He has prepared detailed inspection reports that include SI&A updating, scour elevation, prioritized maintenance recommendations, and load ratings. He currently serves as an instructor for the NHI 130078, Bridge Inspection Techniques for NSTM and NHI 130091, Underwater Bridges inspection courses, teaching other inspectors nationwide.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
03/16 – 08/16	**John James Audubon Cable Stay Bridge Inspection, Louisiana DOTD.** ***Team Leader.*** As a subconsultant, Consor performed the in-depth inspection of the John James Audubon cable stay bridge crossing the Mississippi River north of Baton Rouge. This is the longest cable stay bridge in North America and consists of 136 cable stays extending from 500-ft. high towers. The total length of the bridge is 12,833 ft. Each stay cable and all faces of the supporting towers down to the waterline were inspected with rope access techniques. In addition, the inspectors used rope access techniques to access portions of the floor beam system that were not accessible by the bridge's inspection catwalk. Photographs of deficiencies found were used in conjunction with a detailed report to convey the findings to LADOTD. All of the rope access inspections were performed without the need for traffic control.
01/17 – 08/22	**Statewide Underwater Bridge Inspection, Pennsylvania DOT.** ***Project Manager.*** Consor was awarded a fourth consecutive cycle of underwater inspections on bridges statewide under a five-year contract. This project includes NBIS underwater inspection, scour evaluation, and report preparation with photographs and drawings, as well as participation in bridge owner meetings. Task orders number 117 to date.

06/19 – present	**Underwater Bridge Inspections, Alaska DOT&PF.** ***Project Manager.*** Since 2008, Consor has provided underwater, routine, NSTM and complex bridge inspection for the AKDOT&PF in multiple, sequential 3-year term agreements. Consor performed hands-on inspection of each fracture critical member, fatigue prone detail and other identified problems areas. Consor developed detailed fracture critical inspection and access plans enabling our teams to inspect all components of each structure at 'an arm's length distance' in addition to providing underwater inspection capabilities utilizing the same team. Our combined inspection teams were developed with a priority placed on the safety of inspection crews while minimizing the impacts to the traveling public and the overall time required for the inspection. Our inspectors possess both SPRAT and ADCI certifications allowing us to meet and/or exceed the requirements for both underwater and fracture critical inspections. Our work includes numerous fracture critical transferbridges and dock structures along the coast in addition to large and small fracture critical bridges. The bridges included large complex deck trusses, through-trusses and two-girder systems requiring unique preparation and mobilization.
7/21 – 01/22	**NBIS In-Depth & Routine Bridge Inspection of US 20 & Iowa 926, Iowa DOT.** ***Team Leader.*** Consor performed the hands-on inspection of NSTM (fracture critical) members and in-depth inspection of remaining above water portions of two bridges. The US 20 (Julien Dubuque) Bridge over the Mississippi River in Dubuque, constructed in 1943, is a 5,760-ft. steel tied arch bridge with an 845-ft. main span. The Iowa 926 Bridge over the Des Moines River in Fort Dodge was constructed in 1935 and is a 562-ft. deck truss bridge with a 136-ft. main span. The inspection of the Iowa 926 Bridge was performed entirely with the use of specialized access techniques; no mechanical access or traffic control was needed. The Julien Dubuque inspection utilized specialized access and mechanical access vehicles both on land and from a barge; this combination of techniques permitted the inspection of every primary structural member in every span without any lane closures or disruption to traffic on the bridge, as requested by Iowa Department of Transportation. Each inspection required a comprehensive engineering report of findings including an executive summary, detailed summary of findings, repair recommendations, and photographs. We were reselected for this inspection contract in spring of 2023.
05/12 – 06/16	**Ohio River In-Depth Bridge Inspections, Kentucky Transportation Cabinet.** ***Team Leader.*** Consor was selected for two contracts to provide the in-depth inspection of 11 NSTM bridges over the Ohio River. The first contract included the inspection of the Irvin Cobb Bridge (5,388 ft.); Milton-Madison Bridge (3,181 ft.); Glover Cary Bridge (4,320 ft.); Simon-Kenton Bridge (2,866 ft.; John F. Kennedy Bridge (2,498 ft.); and Taylor Southgate Bridge (2,298 ft. long). The second contract includes inspections of the Carroll Cropper Bridge (4,052 ft.); Cairo/US 51 Bridge (5,865 ft.); Simon Kenton Memorial Bridge (2,866 ft.); Ashland at 12th Street Bridge (2,278 ft.); and Ashland at 13th Street Bridge (2,315 ft.). Industrial rope access techniques are utilized to minimize traffic disruption, as well as manlifts and a safety boat for portions over the river.
01/23 – Present	**Underwater Bridge Inspections, Ohio DOT, District 5 and District 2.** ***Deputy Project Manager.*** Consor is currently providing NBIS underwater inspections of 54 structures within District 5 and two under the same contract within District 2. The structures include the historic "Y-Bridge" in Zanesville and multiple span structures over the Muskingum and Maumee Rivers and Salt Fork Reservoir. Six structures are fully submerged long culverts, requiring penetration dives up to 550 ft. long. One structure is a submerged excavated rock tunnel beneath State Route 22, with unique access constraints. All inspections require a technical engineering report with updated soundings and sonar-developed channel topography images for the larger river structures.

Firm	**Consor Engineers, LLC**		
 **Matthew Ratliff *(MPR 8)*** Team Leader/Diver Supervisor		Years of Relevant Experience with this Employer	6
		Years of Relevant Experience with Other Employer(s)	1
Degree(s) / Years / Specialization	AA/2013		
Active Registration Number / State / Expiration Date	N/A		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	**MPR 8 Underwater Inspection. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 3.Society of Professional Rope Access Technician (SPRAT) Certified; 4. ADCI – Association of Diving Contractors International Certified Diver; 5. FHWA/NHI 130091 Underwater Bridge Inspection.**. *Matthew Ratliff has seven years of experience and joined Consor after a career in the US Navy and with several years of marine engineering and diving education. During his four-year Navy career, he served as a Crash and Salvage Firefighter on board the USS John C. Stennis. After studying marine engineering at Florida Keys Community College and earning an associate's degree from North Seattle Community College, Matthew attended the Divers Institute of Technology. At the institution, he completed 900 hours of education, including dive time, and earned among others, his ADCI certification.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
08/22 – present	**Statewide Underwater Bridge Inspections, Louisiana DOTD.** ***Team Leader.*** Under three consecutive contracts, Consor has performed 1,467 underwater bridge inspections in LADOTD Districts statewide. Consor's most recently completed task order (2022) closed out our second consecutive contract, with the third consecutive contract's first task order also starting in 2022. Inspections have included challenging aspects specifically related to wildlife, fast currents, difficult access, as well as culvert structures requiring penetration dives through extensive silt and debris buildup. This project has included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges from small one-span bridges to larger bridges over major waterways such as I-10 Eastbound/Westbound bridges and US 11 over Lake Pontchartrain, I-10 Eastbound/Westbound over the Bonnett Carre Spillway and multiple bridges over the Red River. Acoustic imaging, 2D and 3D, has also been performed on select bridges, including Mississippi River crossings. NBIS, element-level condition ratings, and as of the start of 2023, SNBI ratings are reported in LADOTD's bridge management database, which switched from AssetWise to InspectX in 2023. CADD inspection drawings, streambed cross sections comparing previous to current soundings, repair recommendations and photo documentation are included as part of each inspection submittal.
02/23 – present	**Underwater Bridge Inspections, Texas DOT.** ***Team Leader.*** Under four consecutive task order-based contracts, Consor is providing underwater bridge inspection and acoustic imaging statewide in Texas. Each bridge is inspected from 2 ft. above the mean high tide waterline to the mudline. Each inspection requires a detailed engineering report that includes client-specific forms, channel cross-section sketches, follow-up action worksheets, element data inspection records, and inventory and defect photographs. Task orders included the underwater inspection and 2D and 3D acoustic imaging of on- and off-system bridges statewide. In addition to routine underwater inspections, we have provided special inspections to document the remaining steel section below water and define limits of scour below spread footings. We have also provided emergency response services following numerous hurricanes and flood events; these responses have been to document damage following barge impacts and to fully document scour utilizing acoustic imaging, both during and after flood events.

05/09 – present	**Statewide Underwater Bridge Inspections, South Carolina DOT.** *Team Leader.* Under six consecutive contracts dating to 2009, Consor has conducted 1,000+ NBIS element-level underwater bridge inspections statewide. Responsibilities included the investigation, evaluation, and recommendation of repairs to the bridges' substructure units. Bridges ranged in size from small, completely submerged box culverts to large, river-crossing trusses, and cable stays. After the inspection, a complete report was prepared for each bridge detailing the findings, rating the bridges in both NBIS and BMS, and stating recommended repairs. 3D modeling was used to assess the progress of channel migration and its encroachment on additional piers. Acoustic imaging was used on bridges to document scour for repair recommendations.
01/17 – present	**Statewide Underwater Bridge Inspections, Mississippi DOT.** *Team Leader.* Consor was selected for the fifth cycle of underwater inspections in July of 2023. To date we have inspected 215+ bridges in accordance with the NBIS. Underwater acoustic imaging and hydrographic surveying was performed on multiple bridges. Diving conditions included fast flow with debris and limited visibility on the Mississippi River. Non-destructive testing was used to accurately determine the remaining section of steel piles, and timber piles were inspected using a timber resistance drill. Soundings were taken upstream and downstream of the bridge while full contours were developed for each bridge site. Reports included NBIS component ratings and element-level inspections.
05/20 – 12/23	**Statewide Underwater Bridge Inspections, Kansas DOT.** *Team Leader.* Consor completed underwater bridge inspection and acoustic imaging services on 65 on- and off-system bridges throughout the state of Kansas. Three of the bridges crossed the Missouri River, with the largest stretching approximately 3,287 ft. long. All inspections were performed per KDOT and NBIS standards. Each pier in greater than 10 ft of water was imaged utilizing 2D SONAR to fully document scour conditions in the vicinity of the pier. Reports included NBI component ratings, channel contour drawings, and individual pier drawings with defects noted.
08/12 – 05/18	**Statewide Underwater Bridge Inspections, Virginia DOT**. *Inspector.* Under four contracts, Consor provided professional NBIS diving services for inspection and analysis on bridges throughout Virginia. Consor provided all personnel and equipment necessary to perform the underwater inspections that included recommendations of follow-up action and the preparation of inspection reports. In areas with salt water and/or brackish water, a minimum of 10% of each substructure element was cleaned of marine growth. Color photography was used and included as a part of each final inspection report.

Firm	Consor Engineers, LLC		
 **Michael Dukes, PE *(MPR 8 & 10)*** Vice President/Central District Manager		Years of Relevant Experience with this Employer	14
		Years of Relevant Experience with Other Employer(s)	2
Degree(s) / Years / Specialization	BS/2008/Civil Engineering MS/2009/Civil Engineering MS/2019/Engineering Management		
Active Registration Number / State / Expiration Date	40986/Louisiana/03/31/2025		
Year Registered	2016	Discipline	Professional Engineer/Civil
Contract Role(s) / Brief Description of Responsibilities	**MPR 8 and 10. Acoustic Imaging. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges; 4. ADCI – Association of Diving Contractors International Certified Diver; 5. FHWA/NHI 130091 Underwater Bridge Inspection.** *Michael is a professional engineer with more than 16 years of experience managing and leading bridge safety inspection, structural design, and waterfront facility inspection projects nationwide. As our Underwater Acoustic Imaging Technical Expert, he has utilized 2D and 3D SONAR to image structures and document scour during emergency flood responses, as well as to enhance diver safety during routine underwater bridge inspections. His responsibilities include overall project management, coordinating logistics for inspection teams nationwide, serving as team leader for above and below water NBIS bridge inspections, load rating of steel and concrete structures, emergency responses, and quality control of element-level inspection data submittals in various bridge inspection databases. He has made presentations on underwater bridge inspections and acoustic imaging at numerous conferences, including the Louisiana Transportation Conference.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
08/22 – present	**Statewide Underwater Bridge Inspections, Louisiana DOTD.** ***Team Leader.*** Acoustic Imaging Under three consecutive contracts, Consor has performed 1,467 underwater bridge inspections in LADOTD Districts statewide. Consor's most recently completed task order (2022) closed out our second consecutive contract, with the third consecutive contract's first task order also starting in 2022. Inspections have included challenging aspects specifically related to wildlife, fast currents, difficult access, as well as culvert structures requiring penetration dives through extensive silt and debris buildup. This project has included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges from small one-span bridges to larger bridges over major waterways such as I-10 Eastbound/Westbound bridges and US 11 over Lake Pontchartrain, I-10 Eastbound/Westbound over the Bonnett Carre Spillway and multiple bridges over the Red River. Acoustic imaging, 2D and 3D, has also been performed on select bridges, including Mississippi River crossings. NBIS, element-level condition ratings, and as of the start of 2023, SNBI ratings are reported in LADOTD's bridge management database, which switched from AssetWise to InspectX in 2023. CADD inspection drawings, streambed cross sections comparing previous to current soundings, repair recommendations and photo documentation are included as part of each inspection submittal.

05/22 – present	**NHI Manual Updates, Federal Highway Administration.** *Contributor.* Consor is currently rewriting and updating two key manuals that are utilized extensively in the underwater bridge inspection and repair industry. Drawing on the experience and knowledge of 60+ divers in the company, the FHWA Underwater Bridge Inspection Manual and the FHWA Underwater Bridge Repair, Rehabilitation and Countermeasures Manual are receiving a complete overhaul. Consor is working closely with FHWA staff and state DOT representatives to ensure that the manuals present the latest practices and innovations in the underwater bridge arena. The underwater bridge inspection manual is being updated to the new NBIS standards and incorporating changes that are required by SNBI.
02/12 – 03/13	**Underwater Acoustic Imaging for Bridge Inspection, Louisiana DOTD.** *Project Manager/Team Leader.* As a subconsultant, Consor assisted in the performance of underwater acoustic imaging for the inspection of 100+ bridge piers throughout the state of Louisiana. Consor provided diver investigations of any anomalies that were found. The pier inspections included both sides of the piers and the upstream and downstream noses of the piers. The scans were performed to identify and locate any major damage or deterioration, such as corrosion, loss of section, or scour undermining. Equipment required for these scans included a multi axis, steered beam imaging and profiling remote sensing system. All surface-supplied air diving was performed by ADCI-certified divers. Detailed reports were generated and submitted to LADOTD.
01/17 – present	**Statewide Underwater Bridge Inspections, Mississippi DOT.** *Project Manager.* Consor was selected for the fifth cycle of underwater inspections in July of 2023. To date we have inspected 215+ bridges in accordance with the NBIS. Underwater acoustic imaging and hydrographic surveying was performed on multiple bridges. Diving conditions included fast flow with debris and limited visibility on the Mississippi River. Structural conditions were documented with underwater photography. Non-destructive testing was used to accurately determine remaining section of steel piles, and timber piles were inspected using a timber resistance drill. Soundings were taken upstream and downstream of the bridge while full contours were developed for each bridge site. Reports included NBIS component ratings and element-level inspections.

Firm	**Consor Engineers, LLC**		
 **Eric Harbeson, PE *(MPR 4)*** Senior Project Manager		Years of Relevant Experience with this Employer	3
		Years of Relevant Experience with Other Employer(s)	15
Degree(s) / Years / Specialization	BS/2005/Civil Engineering		
Active Registration Number / State / Expiration Date	084508/Pennsylvania/09.30.2025		
Year Registered	2016	Discipline	Professional Engineer/Civil
Contract Role(s) / Brief Description of Responsibilities	**MPR 4. Bridge Inspection Team Lead. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges; 3.Society of Professional Rope Access Technician (SPRAT) Certified; 4. ADCI – Association of Diving Contractors International Certified Diver; 5. FHWA/NHI 130091 Underwater Bridge Inspection.** *Eric Harbeson is a senior project manager with more than 18 years of experience specializing in bridge engineering and structural inspection. He has managed projects consisting of hundreds of bridges to projects focusing on one or two complex structures and has managed a bridge replacement project and several bridge rehabilitation projects. He is a SPRAT Level III certified rope access technician and has led and conducted more than 1,500 hours of rope access inspection work on bridges and buildings. Eric has been involved in emergency bridge inspections, as well as structural monitoring and evaluation. He has also maintained professional relationships with stakeholders, including railroads, US Coast Guard, Army Range Control, US Army Corps of Engineers, and state DOTs.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
04/21 – 06/24	**Statewide NSTM (Fracture Critical) Bridge and Tunnel Inspections, Texas DOT.** ***Deputy Project Manager.*** Consor provided hands-on inspection of the NSTM components of on- and off-system bridges throughout the state and NTIS inspection of tunnels for this task order-based three-year contract. Signature structure inspections included the Sidney Sherman Bridge, Rainbow Bridge, Butterfly Bridge, Klyde Warren Tunnel, Port Aransas Ferry Terminals, and the Queen Isabella Causeway. Common in urban areas, Consor completed many inspections of welded tub girders framing into welded box pier cap elements often requiring multiple lane closures and night work. Each Consor inspector was experienced and equipped with basic NDE (magnetic particle (MT) or dye penetrant (PT) test kits) to confirm the extent of fatigue related deficiencies. Hands-on access to the designated members (superstructure and substructure components) required advanced training in railroad safety and right-of-entry requirements, confined space entry, use of mechanically elevated work platforms, industrial rope access, NDE testing methods (PT, MT and ultrasonic (UT)) and knowledge of the MUTCD. Access was determined and coordinated based on the bridge type, route carried or over; our robust specialized access expertise allows us to utilize the most efficient and effective method for completing the inspection. Inspections were conducted in compliance with the state, SNBI, AASHTO, and FHWA regulations. Each NSTM inspection included an NSTM report narrative detailing the condition of the NSTM members with element-level assessment including representative photographs and a separate fatigue details document which are submitted through AssetWise.

7/21 – 01/22	**NBIS In-Depth & Routine Bridge Inspection of US 20 & Iowa 926, Iowa DOT.** *Team Leader.* Consor performed the hands-on inspection of NSTM (fracture critical) members and in-depth inspection of remaining above water portions of two bridges. The US 20 (Julien Dubuque) Bridge over the Mississippi River in Dubuque, constructed in 1943, is a 5,760-ft. steel tied arch bridge with an 845-ft. main span. The Iowa 926 Bridge over the Des Moines River in Fort Dodge was constructed in 1935 and is a 562-ft. deck truss bridge with a 136-ft. main span. The inspection of the Iowa 926 Bridge was performed entirely with the use of specialized access techniques; no mechanical access or traffic control was needed. The Julien Dubuque inspection utilized specialized access and mechanical access vehicles both on land and from a barge; this combination of techniques permitted the inspection of every primary structural member in every span without any lane closures or disruption to traffic on the bridge, as requested by Iowa Department of Transportation. Each inspection required a comprehensive engineering report of findings including an executive summary, detailed summary of findings, repair recommendations, and photographs. We were reselected for this inspection contract in spring of 2023.
02/21 – present	**Areawide State Bridge Inspection (Interstate and Non-Interstate), Florida DOT, District 2.** *Team Leader.* Under a second consecutive four-year contract, Consor is performing in-depth routine and NSTM (fracture critical) inspections for an expanded inventory of more than 270 bridges located primarily in the Jacksonville area. Jacksonville's two signature steel trusses, with lengths of 1,620 ft. and 2,586 ft., with pin and hanger connections and suspended span details, require industrial rope access techniques. Jacksonville's third signature bridge, a cable stay bridge, includes in-depth inspections of the dampening system and of the pier interiors, which occur once every 10 years. Three bridges with movable spans, including a vertical lift span, require routine and mechanical electrical inspections. NDT is required for the truss and historic suspension span bridge pins and lift span sheave shafts and trunnions. Interstate inspections include flyover structures constructed of post-tensioned concrete segmental and fracture critical steel box girders. Difficult access locations utilize under bridge inspection vehicles, bucket trucks, barge and aerial lift, and approved drone techniques. Underwater inspection services include an additional 103 bridges with lengths from less than 500 ft. to 5000+ ft. using surface supplied air or commercial SCUBA performing level II and level III inspections and hydrographic multi-beam swath surveys for six bridges. Each inspection requires a comprehensive BrM engineering report with photographs and drawings.
06/17 – present	**Statewide NBIS Bridge Inspections, Arizona DOT.** *Team Leader.* Consor was selected to perform routine, in-depth, hands-on NSTM (fracture critical), and underwater bridge inspections in accordance with NBIS standards as part of Arizona DOT's task order-based on-call contract. Consor is responsible for maintaining ADOT's bridge inventory in the Southwest and Northwest regions of the state. Access to these structures were achieved through any variation of the following: adapted rope access techniques, bucket trucks or under-bridge inspection vehicles (UBIV's) with traffic control closures, boats, and/or ladders. Element-level inspections examine all bridge components related to the bridge deck, superstructure, substructure, and channel protection. Visual assessment was also performed for the approach roadway components and safety features near limits of the structure. Non-destructive testing was used if the team leader deemed it necessary. Detailed engineering reports documenting the inspection findings and recommendations were prepared and adhered to ADOT guidelines for report generation. Reports include but are not limited to updated SI&A sheet, repair recommendations, maintenance recommendations, inspection report narrative, photo report, and channel profile/vertical clearance diagram.

	Firm	**Consor Engineers, LLC**	
Benjamin Schaefer, PE *(MPR 5)* Project Manager		Years of Relevant Experience with this Employer	7
		Years of Relevant Experience with Other Employer(s)	3
Degree(s) / Years / Specialization	BS/2013/Civil Engineering		
Active Registration Number / State / Expiration Date	54369/Colorado/10.31.2025		
Year Registered	2018	Discipline	Professional Engineer/Civil
Contract Role(s) / Brief Description of Responsibilities	**MPR 5. Bridge Inspection. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges; 3.Society of Professional Rope Access Technician (SPRAT) Certified; 4. ADCI – Association of Diving Contractors International Certified Diver; 5. FHWA/NHI 130091 Underwater Bridge Inspection.** *Ben Schaefer is a civil engineer with more than 10 years of experience and an extensive background in bridge inspection, scheduling, reporting, and execution. He has served as a project manager and bridge inspection team leader on assignments throughout North America. These assignments included hands-on NBIS in-depth and NSTM bridge inspections, verifying and coding SI&A information, determining condition ratings, and coding element-level condition ratings. Ben is Consor's resident expert and liaison for timber inspection, testing, and documentation. He is skilled in the use of resistograph technology and understands the nuances of interpreting the results and data as it relates to structural capacity of timber members. His access technique experience includes industrial rope access, underbridge inspection vehicles, manlifts, bucket trucks, watercraft, and confined-space entry. Ben is an instructor for NHI 130078, Bridge Inspection Techniques for NSTM.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
03/19 – present	**NBIS Bridge Inspections, Montana Department of Transportation.** ***Project Manager/Team Leader.*** Under a third consecutive task order-based contract, Consor is performing NBIS bridge inspections, including routine, NSTM, and in-depth timber inspections for on-system structures. Each inspection includes SI&A updates, element-level condition state data with accompanying defect language, photographs, and repair and maintenance recommendations reported in the MDT BrM system. Some inspections include a comprehensive engineering report including inventory measurements for load rating. Timber inspections also include evaluating timber piles, caps, and girders using a resistograph. The findings are compiled into BrM with diagrams created using MicroStation, AutoCAD, and Bluebeam.
02/21 – present	**Areawide State Bridge Inspection (Interstate and Non-Interstate), Florida DOT, District 2.** ***Team Leader.*** Under a second consecutive four-year contract, Consor is performing in-depth routine and NSTM inspections for an expanded inventory of more than 270 bridges located primarily in the Jacksonville area. Jacksonville's two signature steel trusses, with lengths of 1,620 ft. and 2,586 ft., with pin and hanger connections and suspended span details, require industrial rope access techniques. Jacksonville's third signature bridge, a cable stay bridge, includes in-depth inspections of the dampening system and of the pier interiors, which occur once every 10 years. Three bridges with movable spans, including a vertical lift span, require routine and mechanical electrical inspections. NDT is required for the truss and historic suspension span bridge pins and lift span sheave shafts and trunnions. Interstate inspections include flyover structures constructed of post-tensioned concrete segmental and fracture critical steel box girders. Difficult access locations utilize under bridge inspection vehicles, bucket trucks, barge and aerial lift, and approved drone techniques. Underwater inspection services include an additional 103 bridges with lengths from less than 500 ft. to 5000+ ft. using surface supplied air or commercial SCUBA performing level II and level III inspections and hydrographic multi-beam swath surveys for six bridges. Each inspection requires a comprehensive BrM engineering report with photographs and drawings

03/17 – 06/22	**Statewide Routine Bridge Inspections, Wyoming DOT.** *Project Manager/Team Leader.* Under two consecutive contract cycles, Consor performed statewide NBIS routine on-system bridge inspections of 600+ bridges along with special inspections of pin and hanger assemblies on various bridges in Wyoming. Each routine inspection includes element-level inspection and BrM report submission with photographs. The inspections are conducted in accordance with the NBIS, Wyoming DOT, and current AASHTO policies. The pin and hanger inspections required ultrasonic testing on all pins utilizing a 2.25 MhZ straight beam transducer, as well as a hands-on inspection, within 3 ft. of each hanger assembly. Inspectors accessed the pins by means of a bucket truck or various rope access techniques. Deliverables were finalized within two weeks from the date of inspection and included field notes, pin deficiency summaries, and photos from the inspection.
7/21 – 01/22	**NBIS In-Depth & Routine Bridge Inspection of US 20 & Iowa 926, Iowa DOT.** *Team Leader.* Consor performed the hands-on inspection of NSTM (fracture critical) members and in-depth inspection of remaining above water portions of two bridges. The US 20 (Julien Dubuque) Bridge over the Mississippi River in Dubuque, constructed in 1943, is a 5,760-ft. steel tied arch bridge with an 845-ft. main span. The Iowa 926 Bridge over the Des Moines River in Fort Dodge was constructed in 1935 and is a 562-ft. deck truss bridge with a 136-ft. main span. The inspection of the Iowa 926 Bridge was performed entirely with the use of specialized access techniques; no mechanical access or traffic control was needed. The Julien Dubuque inspection utilized specialized access and mechanical access vehicles both on land and from a barge; this combination of techniques permitted the inspection of every primary structural member in every span without any lane closures or disruption to traffic on the bridge, as requested by Iowa Department of Transportation. Each inspection required a comprehensive engineering report of findings including an executive summary, detailed summary of findings, repair recommendations, and photographs. We were reselected for this inspection contract in spring of 2023.
10/16 – present	**NBIS Bridge Inspections, Bureau of Indian Affairs.** *Team Leader.* From 2001 through 2020, Consor performed on three consecutive task order-based contracts to perform NBIS bridge inspections and prepare an inventory of Indian-owned bridges throughout the United States. Services included engineering analysis of existing conditions, reviewing and updating previous inspection reports and drawings, recommendations for follow-up actions, cost estimates, and documentation of findings in accordance with BIA, NBIS, and AASHTO reporting requirements. This project includes routine, NSTM, and underwater inspections. Load ratings are performed on new bridges and bridges with significant deterioration. Rope access techniques are also used as required to perform inspections. Under these contracts, Consor has provided bridge inspections and reports in every BIA region under 21 task orders. The firm is currently performing on a fourth task order-based contract as a subconsultant to native-owned OES.

Firm	Consor Engineers, LLC		
Chris Sasher, PE *(MPR 5)* Senior Engineer		Years of Relevant Experience with this Employer	10
		Years of Relevant Experience with Other Employer(s)	5
Degree(s) / Years / Specialization	BS/2006/Civil Engineering MS/2008/Civil Engineering		
Active Registration Number / State / Expiration Date	74796/Florida/02.28.2025		
Year Registered	2012	Discipline	Professional Engineer/Civil
Contract Role(s) / Brief Description of Responsibilities	**MPR 5. Bridge Inspection. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges; 3.Society of Professional Rope Access Technician (SPRAT) Certified.** *Chris Sasher has more than 15 years of experience in bridge inspection and transportation design, serving in project management and engineering capacities. His experience includes performing structural analysis and load rating calculations, client and field logistics coordination, as well as complex and conventional bridge inspections. Chris has led inspection efforts on multiple projects nationwide. He initiated and successfully deployed the development of inspection applications for electronic data entry using iPads in the field as well as automated report processing. He also helped to reduce mobilization, inspection, and report processing time while increasing QA/QC and report substance. Chris has developed internal tracking and management software integrating Outlook, SharePoint, Microsoft Office Suite, and FileMaker.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
03/16 – 08/16	**John James Audubon Cable Stay Bridge Inspection, Louisiana DOTD.** ***Team Leader.*** As a subconsultant, Consor performed the in-depth inspection of the John James Audubon cable stay bridge crossing the Mississippi River north of Baton Rouge. This is the longest cable stay bridge in North America and consists of 136 cable stays extending from 500-ft. high towers. The total length of the bridge is 12,833 ft. Each stay cable and all faces of the supporting towers down to the waterline were inspected with rope access techniques. In addition, the inspectors used rope access techniques to access portions of the floor beam system that were not accessible by the bridge's inspection catwalk. Photographs of deficiencies found were used in conjunction with a detailed report to convey the findings to LADOTD. All of the rope access inspections were performed without the need for traffic control.
02/21 – present	**Areawide State Bridge Inspection (Interstate and Non-Interstate), Florida DOT, District 2 .** ***Team Leader.*** Under a second consecutive four-year contract, Consor is performing in-depth routine and NSTM inspections for an expanded inventory of more than 270 bridges located primarily in the Jacksonville area. Jacksonville's two signature steel trusses, with lengths of 1,620 ft. and 2,586 ft., with pin and hanger connections and suspended span details, require industrial rope access techniques. Jacksonville's third signature bridge, a cable stay bridge, includes in-depth inspections of the dampening system and of the pier interiors, which occur once every 10 years. Three bridges with movable spans, including a vertical lift span, require routine and mechanical electrical inspections. NDT is required for the truss and historic suspension span bridge pins and lift span sheave shafts and trunnions. Interstate inspections include flyover structures constructed of post-tensioned concrete segmental and fracture critical steel box girders. Difficult access locations utilize under bridge inspection vehicles, bucket trucks, barge and aerial lift, and approved drone techniques. Underwater inspection services include an additional 103 bridges with lengths from less than 500 ft. to 5000+ ft. using surface supplied air or commercial SCUBA performing level II and level III inspections and hydrographic multi-beam swath surveys for six bridges. Each inspection requires a comprehensive BrM engineering report with photographs and drawings.

11/13 – present	**NBIS Structures Inspections and Load Ratings - Northern System, Florida's Turnpike Enterprise.** *Team Leader.* Consor is performing an eighth two-year contract cycle of NBIS inspections on the Turnpike's northern system. Each cycle includes the inspection of 400+ bridges and culverts, 300+ overhead sign structures, 200+ high mast light poles, and up to 45 non-qualifying culverts. As part of this project, we provided the load rating of 236 simply supported structures, which was completed in an eight-month time frame. The superstructure types included AASHTO beams, cast-in-place concrete flat slabs, and prestressed concrete voided slabs. We completed the load rating analyses using the latest version of the SMART Bridge program (LRFR).
03/19 – present	**Districtwide NBIS Local Government Bridge Inspections and Scour Evaluation, FDOT – District 3.** *Team Leader.* Under a third consecutive four-year contract, Consor is performing the NBIS inspection of 550+ bridges in District 3. This districtwide local government bridge inspection contract includes NBIS routine, NSTM, initial, interim, and special bridge inspections. The project also included underwater dive inspections, non-destructive testing, scour evaluations and analysis, load ratings, BrM report preparation, and emergency response. Communication and coordination for this project includes District Three and each local agency bridge owner. Bridge inspections are conducted from the top down and include guardrails, traffic barriers, safety features, traffic signs, approach slabs, deck, superstructure, bearings, walls, bent caps, channels, piers, and piles. Soundings are generally taken using measuring tapes with a lead weight on the end; on larger bridges, we perform soundings using a fathometer from a boat to improve safety and efficiency.
11/13 – 06/16	**Ohio River In-Depth Bridge Inspections, Kentucky Transportation Cabinet.** *Team Leader.* Consor was selected for two contracts to provide the in-depth inspection of 11 NSTM bridges over the Ohio River. The first contract included the inspection of the Irvin Cobb Bridge (5,388 ft.); Milton-Madison Bridge (3,181 ft.); Glover Cary Bridge (4,320 ft.); Simon-Kenton Bridge (2,866 ft.; John F. Kennedy Bridge (2,498 ft.); and Taylor Southgate Bridge (2,298 ft. long). The second contract includes inspections of the Carroll Cropper Bridge (4,052 ft.); Cairo/US 51 Bridge (5,865 ft.); Simon Kenton Memorial Bridge (2,866 ft.); Ashland at 12th Street Bridge (2,278 ft.); and Ashland at 13th Street Bridge (2,315 ft.). Industrial rope access techniques are utilized to minimize traffic disruption, as well as manlifts and a safety boat for portions over the river.

Firm	Consor Engineers, LLC		
Michael Sorensen *(MPR 9)* Bridge Inspector/Diver		Years of Relevant Experience with this Employer	5
		Years of Relevant Experience with Other Employer(s)	6
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	**MPR 9. Diver Bridge Inspection. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspecto; 4. ADCI – Association of Diving Contractors International Certified Diver; 5. FHWA/NHI 130091 Underwater Bridge Inspection.** *Michael Sorensen serves as a dive technician and bridge inspector for Consor. He has performed underwater bridge inspection for DOTs in Louisiana, Oklahoma, Texas, Missouri, and Mississippi.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
08/22 – present	**Statewide Underwater Bridge Inspections, Louisiana DOTD.** ***Bridge Inspector.*** Under three consecutive contracts, Consor has performed 1,467 underwater bridge inspections in LADOTD Districts statewide. Consor's most recently completed task order (2022) closed out our second consecutive contract, with the third consecutive contract's first task order also starting in 2022. Inspections have included challenging aspects specifically related to wildlife, fast currents, difficult access, as well as culvert structures requiring penetration dives through extensive silt and debris buildup. This project has included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges from small one-span bridges to larger bridges over major waterways such as I-10 Eastbound/Westbound bridges and US 11 over Lake Pontchartrain, I-10 Eastbound/Westbound over the Bonnett Carre Spillway and multiple bridges over the Red River. Acoustic imaging, 2D and 3D, has also been performed on select bridges, including Mississippi River crossings. NBIS, element-level condition ratings, and as of the start of 2023, SNBI ratings are reported in LADOTD's bridge management database, which switched from AssetWise to InspectX in 2023. CADD inspection drawings, streambed cross sections comparing previous to current soundings, repair recommendations and photo documentation are included as part of each inspection submittal.
02/23 – present	**Underwater Bridge Inspections, Texas DOT.** ***Bridge Inspector.*** Under four consecutive task order-based contracts, Consor is providing underwater bridge inspection and acoustic imaging statewide in Texas. Each bridge is inspected from 2 ft. above the mean high tide waterline to the mudline. Each inspection requires a detailed engineering report that includes client-specific forms, channel cross-section sketches, follow-up action worksheets, element data inspection records, and inventory and defect photographs. Task orders included the underwater inspection and 2D and 3D acoustic imaging of on- and off-system bridges statewide. In addition to routine underwater inspections, we have provided special inspections to document the remaining steel section below water and define limits of scour below spread footings. We have also provided emergency response services following numerous hurricanes and flood events; these responses have been to document damage following barge impacts and to fully document scour utilizing acoustic imaging, both during and after flood events.

05/21 – present	**Statewide Underwater Bridge Inspections, Mississippi DOT.** *Bridge Inspector.* Consor was selected for the fifth cycle of underwater inspections in July of 2023. To date we have inspected 215+ bridges in accordance with the NBIS. Underwater acoustic imaging and hydrographic surveying was performed on multiple bridges. Diving conditions included fast flow with debris and limited visibility on the Mississippi River. Non-destructive testing was used to accurately determine the remaining section of steel piles, and timber piles were inspected using a timber resistance drill. Soundings were taken upstream and downstream of the bridge while full contours were developed for each bridge site. Reports included NBIS component ratings and element-level inspections.
05/21 – present	**Statewide Underwater Bridge Inspections, Missouri DOT.** *Bridge Inspector.* Consor has been providing underwater inspections for Missouri DOT since 1999. The scope of work involves underwater diving inspection, acoustic imaging, and comprehensive reports for structures throughout the state. Bridges over the Missouri and Mississippi Rivers with high flows have been successfully and safely inspected through a combination of underwater acoustic imaging and targeted diving. For bridges over Table Rock Lake and Lake of the Ozarks, acoustic imaging was deployed to supplement the inspection of piers in water up to 165-ft. deep, with diving operations conducted on portions of the piers less than 100-ft. deep to mitigate the need for a recompression chamber to be on-site and to reduce overall diving hazards of the dive profile. Underwater acoustic imaging is an accepted method for complying with NBIS underwater inspection requirements when diving is not feasible. A detailed report, with element-level data, is prepared for each bridge, including underwater photographs of deficiencies and recommended corrective actions.

Firm	Consor Engineers, LLC		
Andrew Harrison *(MPR 9)* Bridge Inspector/Dive Supervisor		Years of Relevant Experience with this Employer	5
		Years of Relevant Experience with Other Employer(s)	0
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	**MPR 9. Diver Bridge Inspection. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspecto; 4. ADCI – Association of Diving Contractors International Certified Diver; 5. FHWA/NHI 130091 Underwater Bridge Inspection.** *Andrew Harrison serves as a bridge inspector and dive supervisor. He has worked on inspection projects across the nation and is an ADCI-certified Surface-supplied Air Diving Supervisor. Andrew's inspection experience includes concrete and steel substructures foundations, fender systems, confined space penetration, and channel bottom evaluation.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
01/17 – 08/22	**Statewide Underwater Bridge Inspections, Louisiana DOTD.** ***Bridge Inspector.*** Under seven task orders for two consecutive contracts Consor performed 450+ underwater inspections of bridges in LADOTD districts statewide. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, as well as acoustic imaging. Comprehensive engineering reports were prepared in electronic and hard copy formats.
02/23 – present	**Underwater Bridge Inspections, Texas DOT.** ***Bridge Inspector.*** Under four consecutive task order-based contracts, Consor is providing underwater bridge inspection and acoustic imaging statewide in Texas. Each bridge is inspected from 2 ft. above the mean high tide waterline to the mudline. Each inspection requires a detailed engineering report that includes client-specific forms, channel cross-section sketches, follow-up action worksheets, element data inspection records, and inventory and defect photographs. Task orders included the underwater inspection and 2D and 3D acoustic imaging of on- and off-system bridges statewide. In addition to routine underwater inspections, we have provided special inspections to document the remaining steel section below water and define limits of scour below spread footings. We have also provided emergency response services following numerous hurricanes and flood events; these responses have been to document damage following barge impacts and to fully document scour utilizing acoustic imaging, both during and after flood events.
01/17 – present	**Statewide Underwater Bridge Inspections, Mississippi DOT.** ***Bridge Inspector.*** Consor was selected for the fifth cycle of underwater inspections in July of 2023. To date we have inspected 215+ bridges in accordance with the NBIS. Underwater acoustic imaging and hydrographic surveying was performed on multiple bridges. Diving conditions included fast flow with debris and limited visibility on the Mississippi River. Non-destructive testing was used to accurately determine the remaining section of steel piles, and timber piles were inspected using a timber resistance drill. Soundings were taken upstream and downstream of the bridge while full contours were developed for each bridge site. Reports included NBIS component ratings and element-level inspections.
08/22 – 12/22	**Underwater Inspection of Nine Missouri River Bridges, South Dakota DOT.** ***Bridge Inspector.*** In 2022, Consor was selected for a second contract to provide NBIS underwater bridge inspections of nine structures over the Missouri River. Structure types included steel plate girders and steel through trusses. Depths ranged from 20 ft. to 120 ft., requiring the use of a recompression chamber. Acoustic scanning was performed on every bridge. Additionally, inspectors performed channel profiling and monitored local scour conditions. Surface-supplied air diving was used to inspect the structures. Inspection reports were provided that included color photographs of inspection findings and recommended repairs.

	Firm	**Consor Engineers, LLC**	
Arthur David LeForge *(MPR 9)* Bridge Inspector/Dive Supervisor		Years of Relevant Experience with this Employer	5
		Years of Relevant Experience with Other Employer(s)	6
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	**MPR 9. Diver Bridge Inspection. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 4. ADCI – Association of Diving Contractors International Certified Diver; 5. FHWA/NHI 130091 Underwater Bridge Inspection.** *David LeForge serves as a bridge inspector/dive supervisor for Consor. He has performed underwater inspections for DOTs in Louisiana, Texas, and Florida, as well as federal agencies including the US Coast Guard and Bureau of Indian Affairs.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
08/22 – present	**Statewide Underwater Bridge Inspections, Louisiana DOTD.** ***Bridge Inspector.*** Under three consecutive contracts, Consor has performed 1,467 underwater bridge inspections in LADOTD Districts statewide. Consor's most recently completed task order (2022) closed out our second consecutive contract, with the third consecutive contract's first task order also starting in 2022. Inspections have included challenging aspects specifically related to wildlife, fast currents, difficult access, as well as culvert structures requiring penetration dives through extensive silt and debris buildup. This project has included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges from small one-span bridges to larger bridges over major waterways such as I-10 Eastbound/Westbound bridges and US 11 over Lake Pontchartrain, I-10 Eastbound/Westbound over the Bonnett Carre Spillway and multiple bridges over the Red River. Acoustic imaging, 2D and 3D, has also been performed on select bridges, including Mississippi River crossings. NBIS, element-level condition ratings, and as of the start of 2023, SNBI ratings are reported in LADOTD's bridge management database, which switched from AssetWise to InspectX in 2023. CADD inspection drawings, streambed cross sections comparing previous to current soundings, repair recommendations and photo documentation are included as part of each inspection submittal.
08/18 – present	**Areawide State Bridge Inspection (Interstate and Non-Interstate), Florida DOT, District 2.** ***Bridge Inspector.*** Under a second consecutive four-year contract, Consor is performing in-depth routine and NSTM (fracture critical) inspections for an expanded inventory of more than 270 bridges carrying interstate and state highways located primarily in the Jacksonville area. Jacksonville's two signature steel trusses, with lengths of 1,620 ft. and 2,586 ft., with pin and hanger connections and suspended span details, require industrial rope access techniques. Jacksonville's third signature bridge, a cable stay bridge, includes in-depth inspections of the dampening system and of the pier interiors, which occur once every 10 years. Three bridges with movable spans, including a vertical lift span, require routine and mechanical electrical inspections. NDT is required for the truss and historic suspension span bridge pins and lift span sheave shafts and trunnions. Interstate inspections include flyover structures constructed of post-tensioned concrete segmental and fracture critical steel box girders. The remaining interstate bridges are prestressed and reinforced concrete and steel span multi-beam structures. Difficult access locations utilize under bridge inspection vehicles, bucket trucks, barge and aerial lift, and approved drone techniques. Underwater inspection services include an additional 103 bridges with lengths from less than 500 ft. to 5000+ ft. using surface supplied air or commercial SCUBA performing level II and level III inspections and hydrographic multi-beam swath surveys for six bridges. Each inspection requires a comprehensive BrM engineering report with photographs and drawings.

01/17 – present	**Underwater Bridge Inspections, Texas DOT.** *Bridge Inspector.* Under four consecutive task order-based contracts, Consor is providing underwater bridge inspection and acoustic imaging statewide in Texas. Each bridge is inspected from 2 ft. above the mean high tide waterline to the mudline. Each inspection requires a detailed engineering report that includes client-specific forms, channel cross-section sketches, follow-up action worksheets, element data inspection records, and inventory and defect photographs. Task orders included the underwater inspection and 2D and 3D acoustic imaging of on- and off-system bridges statewide. In addition to routine underwater inspections, we have provided special inspections to document the remaining steel section below water and define limits of scour below spread footings. We have also provided emergency response services following numerous hurricanes and flood events; these responses have been to document damage following barge impacts and to fully document scour utilizing acoustic imaging, both during and after flood events.
02/23 – present	**Underwater Inspection of Nine Missouri River Bridges, South Dakota DOT.** *Bridge Inspector.* In 2022, Consor was selected for a second contract to provide NBIS underwater bridge inspections of nine structures over the Missouri River. Structure types included steel plate girders and steel through trusses. Depths ranged from 20 ft. to 120 ft., requiring the use of a recompression chamber. Acoustic scanning was performed on every bridge. Additionally, inspectors performed channel profiling and monitored local scour conditions. Surface-supplied air diving was used to inspect the structures. Inspection reports were provided that included color photographs of inspection findings and recommended repairs.
08/19 – 12/21	**Statewide Underwater Bridge Inspections, Iowa DOT.** *Bridge Inspector.* Consor performed five cycle of statewide underwater bridge inspections, totaling 150+ inspections. Bridges included timber, steel, and concrete construction crossing streams and rivers with swift currents, limited access, and zero visibility. Each inspection required an in-depth engineering report with photographs and CAD drawings illustrating defects. During July 2021, Consor was requested to perform an urgent inspection of the waterline footings of I-74 over the Mississippi River, while construction operations continued. Consor mobilized to the site within three days and coordinated with the contractors on-site to safely complete the underwater inspections without disruption to any construction related activities.

Firm	KPFF, Inc. dba KPFF Consulting Engineers		
Scott Wyatt, PE *(MPR 1)* Associate		Years of Relevant Experience with this Employer	13
		Years of Relevant Experience with Other Employer(s)	17
Degree(s) / Years / Specialization	BS/1993/Civil Engineer MS/2006/Structural Engineering MBA/2002		
Active Registration Number / State / Expiration Date	28521/KY/06/30/2026 Additional active license: IL,CA,IA,MN,MO,NC,OR,SD,WA,WI		
Year Registered	1998	Discipline	Professional Engineer
Contract Role(s) / Brief Description of Responsibilities	**MPR 1. Cable Stay/ Suspension Expertise. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector.**		

Experience Dates	Experience and qualifications relevant to the proposed contract.
06/2006 – present	• Inspection/Evaluation/Repair/Rehabilitation of Long-span Bridges • Tension Measurement in Arch Hanger Cables of I-490 Bridge over Genessee River, Rochester, NY – 2006 • Luling Bridge, free length inspection, repairs cable replacement, Luling LA, 2007 • Cable Inspections and Force Measurements for I-65 Arch and White River Stay Cable, Columbus IN – 2008 • South 10th Street Suspension Bridge Rehabilitation Study, Including hanger Force Measurements and Suspension Cable Anchorage Condition Assessment using Force Measurement Technology, Pittsburgh PA – 2009 • I-39 Abe Lincoln Arch Hanger Force Measurements, Peru IL – 2009, 2013, Insp. 2016 • I-94 and US 24 tied arch span hanger force estimation, Detroit, MI – 2007 • I-255 Jefferson Barracks Tied Arch, Instrumentation and analysis of wire fractures; St. Louis MO – 2011 • IPFW Pedestrian Stay Cable Bridge Ft. Wayne IN – 2009 and 2011 • Cannelton Bridge Hanger force measurements, Cannelton, IN – 2011 • Sherman-Minton Bridge Hanger force measurements and length calculations; Louisville, KY – 2011 • Bayonne Bridge Service life analysis of abutments and post-tensioned repair tendon evaluation; Bayonne, NJ – 2012 • Milwaukee Sixth St. Viaduct 10 year in-depth inspection, Milwaukee WI – 2012 • Natcher Bridge Ultrasonic evaluation of stay cable strands within the anchorages; Owensboro, KY – 2012 • Sitka Harbor, Force measurements, anchorage inspection, free-length inspection, Sitka AK – 2015 • Captain William Moore Force measurements, anchorage inspection, free-length inspection, Skagway AK – 2015 • La Plata Bridge, Ultrasonic evaluation of stay cable strands within the anchorages and force measurements Naranjito PR – 2015 • Broadway Hanger force measurements, pier evaluation Kansas City MO – 2016 • Gateway – 2016 • US 82/Mississippi River, Ultrasonic evaluation of stay cable strands within the anchorages and force measurements Greenville MS – 2016 • C&D Canal, force measurement – 2019 • Varina Enon Cable free-length inspection and force measurements, New Hope VA – 2007, 2012, 2017, 2021 • K Bridge, Force measurements, anchorage inspection, Brooklyn NY – 2022

07/2002 – 05/2006	Designed repairs and rehabilitation of bridges, buildings, waste water facilities, and other structures.
01/1994 – 05/2000	• Designed several dozen highway bridges throughout North Carolina including prestressed girder, steel plate girder, rolled beam, deck slab, and cored slab superstructures with pile footing, spread footing, drilled pier and steel pile bent substructures in accordance with AASHTO specifications. Features included grade separations, stream crossings, railroad crossings, curved alignments, and heavy skews. • Design reinforced concrete structures including multi-barrel box culverts, retaining walls, and footings. • Projects included widenings, replacements, and staged construction; • Shop drawing review of contractor submittals for seismic isolation bearings, temporary bridges, formwork, prefabricated overhead signs, overhang falsework, signal mast arm designs, braced excavation, sheet piling calculations, detensioning sequences, pot bearings, post-tensioned bent cap, and MSE walls;

Firm	KPFF, Inc. dba KPFF Consulting Engineers		
Chris Ligozio PE *(MPR 2)* Associate		Years of Relevant Experience with this Employer	13
		Years of Relevant Experience with Other Employer(s)	18
Degree(s) / Years / Specialization	BS, 1991, Civil Engineering MS, 1993, Civil Engineering		
Active Registration Number / State / Expiration Date	075792 /NY/ 02/28/2025 Additional active license: IL, AK		
Year Registered	1998	Discipline	Professional Engineer
Contract Role(s) / Brief Description of Responsibilities	**MPR 2. Cable Stay/ Suspension Expertise. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector.**		

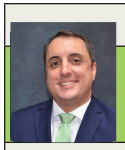
Experience Dates	Experience and qualifications relevant to the proposed contract.
09/21 – present	Inspection and testing of Stay Cables, Kosciusko Bridge, New York, NY
08/16 – 09/20	Inspection and testing of main suspension and hanger cables, Gateway Bridge, Fulton, IL
05/16 – 12/20	QA Inspection for Cable Erection, Kosciusko Bridge, New York, NY
02/16 – 08/20	QA Inspection for Cable Erection, Goethals Bridge, Elizabeth, NJ
10/18 – 07-19	Testing of Stay Cables, C and D Canal Bridge, New Castle County, Delaware
05/16 – 10/16	Inspection and testing of Stay Cables, Mississippi River Bridge, Greenville, MS
06/15 – 03/16	Inspection and testing of Stay Cables, LaPlata Bridge, Naranjito, PR
08/14 – 09/15	Inspection and testing of Stay Cables, Sitka Harbor Bridge, Sitka. AK
07/12 – 02/13	Inspection of testing of Stay Cables, Sixth St Bridge, Milwaukee, WI
06/12 – 11/12	Testing of Stay Cables, William Natcher Bridge, Owensboro, KY
04/06 – 11/08	Inspection and testing of Stay cables / Design of replacement stay cables, Hale Boggs Bridge, Luling, LA

Firm	KTA-Tator, Inc.		
Robert Lanterman *(MPR 6)* Supervisor-Other (Senior Coatings Consultant)		Years of Relevant Experience with this Employer	22
		Years of Relevant Experience with Other Employer(s)	6
Degree(s) / Years / Specialization	BE / 1999 / Chemical Engineering		
Active Registration Number / State / Expiration Date	NACE Certified Coatings Inspector (#13505; expiration 5/23/2025) SSPC Certified Protective Coatings Specialist (#2015-820-136; expiration 12/31/2027) Valid TWIC Card (expiration 10/26/2025)		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	**MPR 6. Protective Coating Inspection. 7. NACE – National Association of Corrosion Engineers; 8. SSPC – Society of Protective Coatings.** *Senior Coatings Consultant / coating condition assessment services.*		

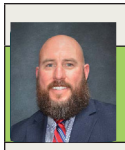
Experience Dates	Experience and qualifications relevant to the proposed contract.
03/24 – 04/24	**Louisiana Department of Transportation and Development, Baton Rouge, LA.** Mr. Lanterman performed document review and coating condition assessment services for the US 190 Krotz Springs Bridges (eastbound and westbound) in St. Landry Parish. He prepared a report detailing the findings of the assessment and providing recommendations for the maintenance of the coating system on this bridge. KTA was a subconsultant to another engineering firm.
03/22 – 03/22	**South East Philadelphia Transportation Authority (SEPTA), Philadelphia, PA.** Mr. Lanterman 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. KTA was a subconsultant to another engineering firm.
09/21 – 12/21	**Louisiana Department of Transportation and Development, Baton Rouge, LA.** Mr. Lanterman 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 rehabilitation of the IWGO Bridge in Baton Rouge. KTA was a subconsultant to another engineering firm.
07/20 – 08/20	**Cuyahoga County (OH) Department of Public Works, Cleveland, OH.** Mr. Lanterman 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 Denison Harvard Bridge in Cleveland. KTA was a subconsultant to another engineering firm.
02/20 – 05/20	**Louisiana Department of Transportation and Development, Baton Rouge, LA**. Mr. Lanterman provided coating condition assessment services, supervision of coatings laboratory testing, and report preparation for the rehabilitation of the coating system on the Jackson Street (Red River) Lift Bridge in Alexandria, LA. KTA was a subconsultant to another engineering firm.
02/18 – 06/19	**Delaware River Port Authority, Camden, NJ.** Mr. Lanterman provided coating consulting and project engineering services for a coating condition assessment of the NJ approach spans to the Walt Whitman Bridge in Gloucester, NJ. He performed a coating condition assessment of the spans to develop future maintenance painting strategies. KTA was a subconsultant to another engineering firm.
03/17 – 05/17	**Louisiana Department of Transportation and Development, Baton Rouge, LA.** Mr. Lanterman performed a coating condition assessment, supervised coatings laboratory testing, and prepared a report with recommendations for the rehabilitation of the coating system on the US 90 Morgan City Bridge and Nearby Structures in Morgan City, LA. KTA was a subconsultant to another engineering firm.

Firm	KTA-Tator, Inc.		
James Kretzler *(MPR 7)* Supervisor-Other (ASNT Level III)		Years of Relevant Experience with this Employer	11
		Years of Relevant Experience with Other Employer(s)	14
Degree(s) / Years / Specialization	N/A		
Active Registration Number / State / Expiration Date	ASNT Level III MT, PT, RT, UT (#186946; expiration 10/2025) AWS Certified Welding Inspector (#07020431; expiration 02/01/2025) NACE Coatings Inspector CIP Level 1 (#54804; expiration 09/30/2026)		
Year Registered	N/A	Discipline	N/A
Contract Role(s) / Brief Description of Responsibilities	**MPR 7. Non-Destructive Evaluation. 6. ASNT – American Society of Non-Destructive Testing.** *ASNT Level III to establish techniques, procedures, methods, etc. for performing NDE inspections.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
07/15 – present	**NDE Department Manager.** *Mr.* Kretzler is managing the NDE Department of the KTA Steel/Concrete/NDE Group. He has financial and operational responsibilities along with project management, business development, hiring, and training for non-destructive examination services. Mr. Kretzler is providing Level III services internally for KTA and externally for clients that include writing and reviewing NDE procedures and certifying NDE technicians. He is also providing NDE training services for Level II Magnetic Particle and Level II Dye Penetrant inspection as well as Ultrasonic Level I and II classes covering UT thickness, straight beam, and angle beam inspections.
10/21 – 10/21	**North Dakota Department of Transportation, Bismarck, ND.** *Mr.* Kretzler was the KTA project manager for Phased Array Ultrasonic Testing (PAUT) on various bridges throughout North Dakota. KTA was a subconsultant to another engineering firm.
03/16 – 05/16	**I-10 Calcasieu Bridge, Baton Rouge, LA.** *Mr.* Kretzler supervised the UT inspection of the bridge pins on this structure. He reviewed the inspection data and issued an opinion regarding the condition of the pins. KTA was a subconsultant to another engineering firm.
06/15 – 12/19	**New York State Department of Transportation, Albany, NY.** *As the prime consultant, Mr.* Kretzler was the KTA project manager for CWI/NDT 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 verifying welding tests in accordance with NYSDOT standards.
12/12 – present	**Connecticut Department of Transportation, Newington, CT.** *As the prime consultant on three consecutive multi-year statewide contracts, Mr.* Kretzler was and is the KTA project manager for steel and concrete fabrication and coatings inspection services at various shop locations.
12/12 – 07/15	**Pennsylvania Department of Transportation, Harrisburg, PA.** *Mr.* Kretzler was a KTA Supervisor overseeing the inspection responsibilities of QA inspectors on bridge fabrication projects in various shops throughout Pennsylvania and Ohio. He reviewed NDE procedures and completed site audits on NDE technicians and oversaw all NDE activities on various projects.

	Firm	T. Baker Smith, LLC	
	Jean Reulet, III, PLS *(MPR 11)* Senior Project Manager, Survey	Years of Relevant Experience with this Employer	3
		Years of Relevant Experience with Other Employer(s)	13
Degree(s) / Years / Specialization	BS / 2011 / Geomatics		
Active Registration Number / State / Expiration Date	PLS.5145 / Louisiana / 03.31.2026		
Year Registered	2015	Discipline	Professional Land Surveyor
Contract Role(s) / Brief Description of Responsibilities	**MPR 11. Hydrographic and Topographic. 11. PLS – Professional Land Surveyor.** *Survey - Lead, Jean will serve as Surveying Lead for Survey services and satisfies. Jean Reulet, III, PLS has served in various roles as a professional land surveyor since 2015. His field experience for LADOTD projects began in 2012 where he has been involved in dozens of topographic surveys of varying sizes across southern Louisiana. He has participated in all stages of a topographic survey from field data collection to final deliverables preparation according to the LADOTD's Location and Survey Manual. Jean is experienced in the use of cutting-edge technology such as terrestrial and mobile LIDAR methods for collecting topographic and structural data in an efficient and safe manner. Jean maintains the ATSSA Traffic Control Supervisor (TCS) certification.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
09/21 – 01/23	**Rural Bridge Replacement Initiative, Phase 1; LADOTD; Districts 04, 05, 08, 58.** *Survey Project Manager.* Coordinated field crews, processed data daily, and provided QA/QC of deliverables. TBS performed control, topographic, and right of way surveys for the replacement of 47 bridge structures in the northern Louisiana. Data was captured to detail the existing bridges themselves, roadways on either side, and surrounding terrain to ensure proper tie into to existing surfaces. Cross sections of the channels they cross were also surveyed to provide information for hydraulic modeling. Data is then processed and QA/QC performed and coordinated with in house engineers designing the replacement bridges. Property surveys of affected tracts of land were also surveyed for any takings or servitudes, and these lines portrayed on right of way maps.
07/21 – present	**Rural Bridge Replacement Initiative, Phase 2; LADOTD; Districts 04 & 05.** *Survey Project Manager.* Coordinated field crews, processed data daily, and provided QA/QC of deliverables. TBS performed control, topographic, and right of way surveys for the replacement of 40 bridge structures in the northern Louisiana. Data was captured to detail the existing bridges themselves, roadways on either side, and surrounding terrain to ensure proper tie into to existing surfaces. Cross sections of the channels they cross were also surveyed to provide information for hydraulic modeling. Data is then processed and QA/QC performed and coordinated with in house engineers designing the replacement bridges. Property surveys of affected tracts of land were also surveyed for any takings or servitudes, and these lines portrayed on Right of way maps.
09/22 – 08/23	**LA 22: Bedico Creek–Pine Creek; LADOTD; St. Tammany Parish, LA.** *Senior Project Manager.* Performed field crew coordination, data processing, project QA/QC and management for topographic survey and existing drainage map. Project involves the widening of LA 22 and improvements to the intersection of LA 22 and Perrilloux Road.
01/24 – present	**Veterinarian Rd. Bridge Replacement; Lafayette Consolidated Government; Lafayette Parish, LA.** *Project Surveyor.* Coordinated field crews, processed data daily, and provided QA/QC of deliverables. TBS is providing survey and engineering services to aid in the Veterinarian Road bridge replacements. TBS will provide a survey of topographic features of the existing site and bridge features as well as prepare plans and bid documents that will allow for construction of the bridge.
01/24 – present	**Rim Rd. Bridge Replacement; Lafayette Consolidated Government; Lafayette Parish, LA.** *Project Surveyor.* Coordinated field crews, pro-cessed data daily, and provided QA/QC of deliverables. TBS is providing a survey of topographic features of the existing site and bridge fea-tures as well as prepare plans and bid documents that will allow for the construction of the bridge.



Firm	T. Baker Smith, LLC		
Rene Hebert, PLS, PMP Project Surveyor		Years of Relevant Experience with this Employer	17
		Years of Relevant Experience with Other Employer(s)	2
Degree(s) / Years / Specialization	BS / 2008 / Geomatics		
Active Registration Number / State / Expiration Date	PLS.5070 / Louisiana / 03.31.2026		
Year Registered	2011	Discipline	Professional Land Surveyor
Contract Role(s) / Brief Description of Responsibilities	**Hydrographic and Topographic. 11. PLS – Professional Land Surveyor.** *Rene Hebert, PLS, PMP is a lead professional and project manager at TBS. He is directly involved in the oversight and execution of the technical aspect of surveying projects including producing and revising drawings, sketches, and plans for contract documents and QA/QC of surveying services. He coordinates work among project technicians, field crew coordinator, field survey personnel, and other required project professionals. His experience includes topographic, boundary and GPR surveys; and underwater acoustic hydrographic surveys including multibeam, single beam, side scan sonar, acoustical soundings, magnetometry and other bathymetric surveys. Rene holds the Project Management Professional (PMP #3150916) certification, as well as ATSSA TCS and TCT certifications.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
07/20 – present	**Rural Bridge Replacement Initiative Phases I & 2; LADOTD; Districts 04, 05, 08, and 58.** *Survey Lead Professional.* Responsible for overseeing topographic surveys, crew coordination, oversight of data processing, TBS performed control, topographic, and right of way surveys for the replacement of 87 bridge structures. Data was captured to detail the existing bridges themselves, roadways on either side, and surrounding terrain to ensure proper tie into to existing surfaces. Cross sections of the channels they cross were also surveyed to provide information for hydraulic modeling. Data is then processed and QA/QCd, and coordinated with in house engineers designing the replacement bridges. Property surveys of affected tracts of land were also surveyed for any takings or servitudes, and these lines portrayed on right of way maps.
09/22 – 08/23	**Bedico Creek–Pine Creek; LADOTD; St Tammany Parish, LA.** *Survey Lead Professional.* Responsible for install project planning, overseeing topographic surveys, crew coordination, oversight of data processing, and deliverable preparation for the +/- four-mile topographic suvey for the road widening and improvement project.
07/16 – 09/16	**SP No. H.004113, I-12 to Bush: LA 3241: LA 435 to LA 40/41; LADOTD; St. Tammany Parish, LA**. *Survey Lead Professional.* Oversaw topographic surveying, property surveys and Right of Way map production including 101 parcels for new 5.5-mile, four-lane SA-3 roadway from LA 435 to Bush, LA. Topographic Survey included a DTM width of 300' through heavily wooded terrain and several drainage crossings and bridge structures.
07/17 – 1/22	**SP No. H.013116, LA 20 Widen: LA 307 – S. Vacherie; LADOTD; St. James & Lafourche Parishes, LA.** *Survey Lead Professional.* Responsible for the supervision of the topographic survey of a 2.7 mile stretch of LA 20 near Vacherie, LA. Oversaw crew coordination, data processing, deliverable preparation and also surveyor of record for the Final R/W Maps. Oversaw the survey through challenging environments including forested wetlands, parallel borrow canal, and substandard bridge design width and sight lines.
03/14 - 06/14	**SP No. H.008149, Pier 1 Removal (Leeville Bridge), Leeville, LA.** *Survey Lead Professional.* Supervised survey efforts related to the project. TBS was tasked with collecting hydrographic data and verifying control monuments at the site to determine a final elevation of the remaining structure.

Firm	Huval and Associates, Inc.		
Colby J Guidry, P.E *(MPR 3 & 4)* Vice President / Lead Engineer / CBI		Years of Relevant Experience with this Employer	6.5
		Years of Relevant Experience with Other Employer(s)	7
Degree(s) / Years / Specialization	BS/2000/Civil Engineering		
Active Registration Number / State / Expiration Date	31338 / LA / 09/30/2024		
Year Registered	2004	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	**MPR 3 and 4. Bridge Inspection Team Lead; Design Repairs/ Rehabilitation Plans; Bridge Load Rating and Analysis. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector; 2. FHWA/NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges; 3.Society of Professional Rope Access Technician (SPRAT) Certified; 8. SSPC – Society of Protective Coatings; 9. TCS – Traffic Control Supervisor.** *Mr. Guidry came to Huval & Associates with 7 years' experience with the Federal Highway Administration (FHWA). His FHWA experience included all aspects of transportation related projects, where he was actively involved with environmental review, design, construction, and maintenance of bridges and roadways throughout Louisiana. Since joining HUVAL, he has been involved in bridge and structural design, plan preparation, bridge inspections, and construction support services. Completed the two-week FHWA approved comprehensive bridge training course for bridge inspectors, certified as a Bridge Inspection Team Leader, completed the NHI LRFR for Superstructures Course, the Work Zone Traffic Control Technician and Supervisor Courses, ATSSA Flagger Training, the NHI Design & Operation of Work Zone Traffic Control, Roadside Design Course, NHI Highway Hydraulics Course, NHI Urban Drainage Design Course, as well as many construction and environmental related courses. Very familiar with the LADOTD Bridge Design Manuals, 2002 AASHTO Bridge Specs, and the current AASHTO LRFD Bridge Specs.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
01/24- present	**Public and Private Bridge Load Ratings – Statewide.** ***Lead Rating Engineer.*** Bridges all across the state on a continual basis. Numerous load ratings performed weekly for a host of clients including parishes, cities, oil field companies, and other clients. The ratings include bridge types such as timber, steel, concrete, movable, fixed, pontoons, and trusses.
01/07-present	**St. Martin Parish Bridge Program.** Inspection and Rating of Bridges for the Parish of St. Martin. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included one Pontoon Bridge, one Swing Span Bridge and numerous Timber and Precast Concrete Bridges.
01/17-present	**St. Landry Parish Bridge Inspection**. From 2017 to present, Mr. Guidry has been involved in the Inspection and Rating of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included several Steel Railcar, Timber and Precast Concrete Bridges, as well as precast and cast in place box culverts.
12/20 – 06/21	**Ascension Parish 26 Bridge Ratings.** Inspected, gathered documentation, rated, provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.

01/19-05/23	**Herman Dupuis Swing Span Bridge (Movable) – St. Martin Parish.** Project Manager for the design, load rating, and plan development of a new swing span bridge over alligator bayou which will replace the Butte LaRose Pontoon bridge. Design elements include all aspects of the bridge including environmental clearance, surveying, structural design, mechanical design, electrical design, hydraulic design, roadway design, and all other design elements. Rating of the various bridge components was also performed.
10/10-01/22	**Butte LaRose Pontoon Repairs (Movable) – St. Martin Parish.** Lead Engineer for the design and Load Rating of numerous repairs to the movable pontoon bridge over alligator bayou. Repairs included deck repairs, stringer repairs, cap repairs, pontoon barge repairs, machinery repairs, pile repairs, abutment repairs.
01/11-08/14	**St. Ann Bridge Over Bayou Terrebonne (Movable) Swing Span – S.P. 700-55-0107.** Lead structural designer for a new Swing span bridge over bayou Terrebonne. Also assisted with Mechanical reviews throughout the design process. Colby was involved with every aspect of this movable bridge project from environmental clearance through construction. This swing span had unique issues to overcome due to the limited vertical space due to waterway and adjacent road obstructions.
04/18 –04/23	**Retainer for Engineering Services for Bridge Preservation - Statewide, Contract No. 4400011225.** Supervisor Engineer of Retainer Contract. Responsible for project management, coordination, project setup, QA/QC, Load Ratings and bridge rehab design for the $4M retainer.
05/20 –present	**Retainer Contract for Bridge Preservation – Statewide – Contract No. 4400017262.** Supervisor Engineer of Retainer Contract. Responsible for project management, coordination, project setup, QA/QC, Load Ratings and bridge rehab design for the $5M retainer.
09/22 –present	**Retainer Contract for Bridge Preservation – Statewide – Contract No. 4400023923.** Supervisor Engineer of Retainer Contract. Responsible for project management, coordination, project setup, QA/QC, Load Ratings and bridge rehab design for the $7M retainer.
09/12 – 12/17	**Retainer Contract for Bridge Repair and Rehabilitation Services - Statewide, Contract No. 440000253.** Supervising Engineer of Retainer Contract. Responsible for coordination, inspections, project setup, QA/QC, Load Ratings, and bridge rehab design for the $6M retainer contract.
05/11 – 08/15	**Retainer for Engineering Services for Bridge Preventive Maintenance (BRPM) - Statewide, Contract No. 440001543.** Lead Engineer of Retainer Contract. Led the Inspection and Design for 8 different Task Orders covering Preventive Maintenance Repairs for over 100 Bridges statewide in short timeframes
08/09– 06/15	**Retainer Contract for Bridge Repair and Rehabilitation Services - Statewide, S.P. 700-99-0488.** Lead Engineer of Retainer Contract. Responsible for coordination, inspection team leader, project setup, bridge design, and QA/QC of Task Orders totaling approximately $8.75M over a 5-year period. Contract utilized multiple Subconsultants on all aspects of bridge design and inspection.

Firm	Huval and Associates, Inc.		
Andrew Juneau, PE *(MPR 4)* Vice President / Lead Engineer / CBI		Years of Relevant Experience with this Employer	10
		Years of Relevant Experience with Other Employer(s)	0
Degree(s) / Years / Specialization	B.S/ 2011/ Civil Engineering M.S./ 2013/ Civil Engineering		
Active Registration Number / State / Expiration Date	41397 / LA / 09-30-2025		
Year Registered	2017	Discipline	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities	**MPR 4. Bridge Inspection Team Lead. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector.** *Mr. Juneau is a professional engineer at Huval and Associates. He has spent much of his time performing bridge inspections. Between 2013 and 2024 he assisted in the inspection of hundreds of bridges throughout Louisiana for LADOTD's bridge preventative maintenance program. Since then, he has also assisted in multiple other bridge inspections and has completed the NHI course for FHWA-NHI Safety Inspection of In-Service Bridges. Within the past ten years he has become heavily involved in the realm of bridge construction engineering design, particularly related to geotechnical engineering, while continuing occasional bridge inspections in Louisiana and surrounding states.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
1/17 - present	**St. Martin Parish Bridge Inspection.** Mr. Juneau has been involved in the Inspection and Rating of Bridges for the Parish of St. Martin. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included one Pontoon Bridge, one Swing Span Bridge and numerous Timber and Precast Concrete Bridges.
1/17 - present	**St. Landry Parish Bridge Inspection.** Mr. Juneau has been involved in the Inspection and Rating of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included several Steel Railcar, Timber and Precast Concrete Bridges, as well as precast and cast in place box culverts.
01/13 – 12/15	**Tappan Zee Hudson River Crossing Westchester County New York, NY Thruway Authority.** Provided design calculations and plans for various items used during bridge construction including pier seal slab design, seal slab lifting, seal slab lowering assembly, secondary slab design, formwork checks, crane ramps and trestles, and various pile templates.
02/14 – 12/19	**US 90 Design Build Construction Services – Lafayette, LA.** Provided cantilever & anchored sheet pile design for 8 footings along with railroad, roadway, and other surcharge analyses for loadings adjacent to cofferdam. Mr. Juneau also provided soil grading and soil boring log analysis.
09/19 – 08/20	**SR 64 Over Escatawpa River Bridge Girder Repair – Jackson County, MS.** Performed limited in-depth bridge inspection of the structural steel superstructure spans at all the diaphragm locations in accordance with NBIS inspection procedures. Inspections were to locate and document fatigue cracks and indicate required repair type. Generated and submitted report of findings and recommended repairs.
03/13 – 07/19	**LADOTD Bridge Preventative Maintenance Program – Multiple District throughout Louisiana.** Performed limited in-depth bridge inspections of hundreds of bridges throughout Louisiana as part of the bridge preventative maintenance program. Inspection items included deck joints, concrete spalling, girder bearings, timber piles, etc.). Created inspection reports and bridge repair plans, detour plans, and temporary traffic control plans.

02/18 – present	**Sam Houston Tollway Ship Channel Bridge Construction Services – Channelview, TX.** Provided engineering design for two 171ft x 97ft cofferdams to construct the M3 and M4 main bridge piers. The M3 and M4 pier cofferdams were designed for a 23' and 27' deep excavations and required one and two levels of walers and struts, respectively. Designed a tie-rod anchor system to allow for backfilling inside the cofferdams to construct the 96in. diameter drilled shafts. Performed slope stability analyses for the cofferdam critical phases.
12/16 – 08/19	**White River Bridge Construction Services – Newport, Arkansas.** Worked on Value Engineering proposal to reduce main pier seal slab thickness from 20ft to 15ft. Designed and produced plans for the two main river pier cofferdams. The designs included four levels of bracing (walers and struts), sheet pile design, phasing of cofferdam construction from installation to removal, and base stability analysis. The design allowed for an 80ft deep excavation using 100ft long sheet piles. Designed and produced plans for a single-span crane trestle used adjacent to the cofferdam. Assisted in mitigating critical slope failure issues encountered prior to Huval's involvement in the project.
04/19 – 09/20	**Purple Line Light Rail Transit System Construction Services – Silver Springs, Maryland.** Provided engineering design for phased support of excavation (S.O.E.) to allow for construction of bridge at Jones Mill Road. SOE consists of a combination of soldier-pile and lagging walls with grouted ground anchors and soldier-pile and lagging walls with walers and struts. Excavations vary between 30 to 42 feet deep. Provided bridge construction services, including bridge overhang support design, bridge demolition plans, slope stability analyses, and temporary crane trestle design.
02/24 – present	**Vicksburg Railroad Bridge over Mississippi River – Vicksburg, MS.** Provided inspections of the bridge after barge impacts at the piers to inspect potential damage. Provided inspections of the structural steel truss members to determine section loss due to corrosion.
01/22 – present	**Leeville to Golden Meadow (Phase 2A) Construction Services – Lafourche Parish, LA**. Provided construction engineering services for the contractor, including crane trestle pile geotechnical design and analyses, testing of trestle piles to determine structural loads in piles and geotechnical capacity, wave equation analyses of production piles using GRLWEAP program, creating a vibration monitoring plan for production pile driving, analysis of the Phase 2C T-wall based on out of tolerance piles.
06/21 – present	**Guadalupe Blanco River Authority Dam Repairs Construction Services – New Braunfels, TX.** At Lake Dunlap Dam, McQueeney Dam, and Lake Placid Dam, provided temporary cofferdam designs for the excavation and dewatering of the construction area to rebuild the dams per the contract plans. Provided temporary crane bridge designs to resist axial loads from the cranes and lateral flow loads from flood events. Conducted occasional site visits to inspect the construction progress of the cofferdams and trestles.

Firm	Huval and Associates, Inc.		
William Lee Hupperich, PE Senior Mechanical Engineer		Years of Relevant Experience with this Employer	11
		Years of Relevant Experience with Other Employer(s)	13
Degree(s) / Years / Specialization	B.S/ 1996/ Mechanical Engineering		
Active Registration Number / State / Expiration Date	30451 / LA / 03/31/25		
Year Registered	2004	Discipline	Mechanical Engineering
Contract Role(s) / Brief Description of Responsibilities	**Movable Bridge Inspection.** *Holds over 25 years of experience in the design and construction of movable bridge mechanical systems (including architectural, plumbing, HVAC, and wastewater systems). As the Movable Bridge Design Expert at LADOTD, produced plans and specifications of more than 18 complex movable bridge mechanical systems and operator's house related Architectural, plumbing, HVAC, and STP systems for statewide movable bridge projects. Now as Senior Mechanical Engineer at Huval & Associates, continues to provide engineering services for complex movable bridge machinery and operator house mechanical systems in Louisiana and Mississippi, expanding his expertise in the field.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
08/22-present	**St. Mary Swing Span Bridges Repairs, St. Mary Parish, LA.** Currently developing plans and specifications for the repairs to three (3) off system swing span bridges in St. Mary Parish: Rizzo, Katy, and Sorrel. This work consists of refurbishing the movable bridge hydraulic power units, hydraulic cylinders, and incorporating new movable traffic barriers.
06/22 - present	**Buquet Lift Bridge Hurricane Ida Damage Inspection and Repairs.** Inspection of hurricane Ida damage to the Buquet Lift Bridge in Houma Louisiana and development of a report containing the damage and cost estimates for the respective repairs. Additionally, the bridge was inspected for Consensus Based Codes, Standards and Specifications to meet FEMA policy.
05/22-present	**New Pontoon Bridge – Valentine Bridge Replacement, Lafourche Parish Government, Lafourche, LA.** Designed, detailed, final plans, specifications, calculations, and cost estimates for the mechanical systems including the pontoon winch drive machinery, deflector sheave assemblies, apron machinery, and movable approach span hoist machinery. Currently providing construction engineering related services including shop drawing review, RFI's, shop visits, site visits, and related project management
05/21 - present	**New Swing Span- Herman Dupuis RD, Pontoon BR Replacement, St. Martin, LA, Bridge Recall.** Designed, detailed, and sealed final plans, specifications, calculations, and cost estimates for the mechanical and electrical systems including: HPU, piping, Hydraulic motor, gearbox, rack, pinion, pivot bearing, balance wheels, track, live load rockers, end wedges, span balance, and movable traffic barriers. Currently providing construction engineering related services including shop drawing review, RFI's, shop visits, site visits, and related project management.
08/20 - present	**New Vertical Lift- GLPC, Airport Connector Road and Bridge, Lafourche, LA.** Designed, detailed, and sealed final plans, specifications, Calculations, and cost estimates for mechanical systems: tower drive machinery, span locks, counterweight ropes, skew control, differential and leveling clutch, air buffers, movable traffic barriers, fixed and expansion shoes, counterweights, guide rollers, access systems and handrailing. Currently providing construction related engineering services including shop drawing review, RFI's, shop visits, site visits, and related project management.
11/19-06/20	**Larose Lock Structure, Larose, GLPC.** Designing and detailing final plans, specifications, and cost estimates for the following: Lock machinery consisting of the winch, reducer, idler, and deflector sheave assemblies; HVAC systems and exhaust fans for facility. Currently the project is at the 95% final plan delivery stage.

03/20 - present	**Double Leaf Bascule Rehabilitation- SR 609 Bridge over Old Fort Bayou, Jackson, MS.** Designed and sealed the temporary hydraulic system including: operating cylinders, HPU, piping, and control interface. Produced a calculation package including span resistance, cylinder loads, horsepower requirements, hydraulic schematic, and the selection of manufactured components for approval prior to manufacturing. Worked together with a hydraulic systems fabricator to build, test, ship, and install the complete system on the bridge. The hydraulic machinery is currently performing successfully while the bridge rehabilitation work is underway.
09/17 – 02/19	**Single Leaf Bascule Rehabilitation – Theriot Bridge, Terrebonne, LA.** Designed, detailed, and sealed final plans, specifications, Calculations, and cost estimates for mechanical and electrical systems including: trunnion shaft and bearing assembly, winch and cable operating system, span balance calculations, selection of electrical components, sizing conductors, conduit runs, and pull boxes.
03/17 - present	**Vertical Lift Rehabilitation, LA 336-1: Bayou Teche Bridge Rehab (HBI); St. Martin, LA.** Performed site inspections and prepared reports containing recommended repair options and costs for DOTD. Designed, detailed, and sealed final plans, specifications, and calculations of the tower drive machinery, pier machinery and the movable traffic barrier. Currently performing construction related engineering services including shop drawing review, RFI's, shop visits, site visits, and related project management is currently being provided.
06/13 - 04/19	**Vertical Lift Rehabilitation- LA 58: Bayou Petit Caillou (HBI), Terrebonne, LA.** Performed site inspections and prepared reports containing recommended repair options and costs for DOTD. Designed, detailed, and sealed final rehabilitation plans covering new trunnion bearings, pinions, pinion bearings, primary and secondary gear reducers, brakes, drive shafting, counterweight ropes, span locks, air buffers, and guide rollers. Developed and sealed plans and specifications for the new operator's house covering HVAC, plumbing and STP.
08/22-present	**St. Mary Swing Span Bridges Repairs – St. Mary Parish, LA.** Currently developing plans and specifications for the repairs to three (3) off system swing span bridges in St. Mary Parish: Rizzo, Katy, and Sorrel. This work consists of refurbishing the movable bridge hydraulic power units, hydraulic cylinders, and incorporating new movable traffic barriers.
06/22 - present	**Buquet Lift Bridge Hurricane Ida Damage Inspection and Repairs.** Inspection of hurricane Ida damage to the Buquet Lift Bridge in Houma Louisiana and development of a report containing the damage and cost estimates for the respective repairs. Additionally, the bridge was inspected for Consensus Based Codes, Standards and Specifications to meet FEMA policy.

Firm	Huval and Associates, Inc.		
Patrick Broussard, C.B.I. *(MPR 5)* Certified Bridge Inspector		Years of Relevant Experience with this Employer	4
		Years of Relevant Experience with Other Employer(s)	38
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	**MPR 5. Bridge Inspectior. 1. FHWA/NHI 130055, 130053 Certified Bridge Inspector.** *Mr. Broussard began his career with the LADOTD in 1989 as an engineering technician. In 1992, he became a bridge inspector for the LADOTD and was responsible for planning and preparing for inspection of District 03's bridges, which consisted of approximately 800 stationary and 60 movable bridges. In 1996, Mr. Broussard was promoted to the position of Bridge Maintenance and Inspection Supervisor and he held this position until his retirement from the LADOTD in 2017. Mr. Broussard is an LADOTD Certified Bridge Inspector and has performed as Team Leader for the LADOTD on hundreds of bridge inspections. He is also current on the ATSSA Traffic Control Technician, Traffic Control Supervisor, and Flagger Courses.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
1/17 - present	**St. Martin Parish Bridge Inspections.** From 2017 to present, Mr. Broussard has been involved in the Inspection and Ratings of Bridges for St. Martin Parish.
1/17 - present	**St. Landry Parish Bridge Inspection.** Mr. Broussard has been involved in the Inspections and Ratings of Bridges throughout St. Landry Parish.
12/02 - 04/17	**Louisiana Department of Transportation and Development Engineering Tech 5.** ***Bridge Inspection Team Leader.*** Lead a two man inspection team in conducting in depth inspections on new and existing on-system and off- system bridges consisting of small simple timber structures to large complex fixed and moveable structures and entered all data and inspection findings in Inspect Tech, LADOTD inspection reporting program. Supervised and inspected major repairs and reconstruction performed by district and state wide repair crews.
11/90 - 11/02	**Louisiana Department of Transportation and Development Engineering Tech 4.** ***Bridge Inspector.*** Conducted in depth inspections on new and existing on-system and off-system bridges consisting of small simple timber structures to large complex fixed and moveable structures and entered all data and inspection findings in the Inspect Tech LADOTD inspection reporting program. Supervised and inspected major repairs and reconstruction performed by district and state-wide repair crews. Worked with local government officials, agencies, and private bridge owners to facilitate bridge inspections and closing and or opening of bridges. Conducted yearly compliance reviews of all parishes participating in the Federal Off-System Bridge Replacement Program as mandated by the Federal Highway Administration.
04/07 – present	**Various Bridge Inspections– Conducts bridge inspections on various types of bridges throughout the state of Louisiana and Mississippi.** Inspections are performed on a wide range of bridge complexities from slab span to major river truss type structures including the Vicksburg RR bridge over the Mississippi.

Firm	Vectura Consulting Services, LLC		
Sheelagh Brin Ferlito, PE, PTOE Supervisor-Eng		Years of Relevant Experience with this Employer	9
		Years of Relevant Experience with Other Employer(s)	27
Degree(s) / Years / Specialization	B.S. / 1988 / Civil Engineer		
Active Registration Number / State / Expiration Date	PE. 0025383 / LA 09/30/2025		
Year Registered	1993	Discipline	Civil
Contract Role(s) / Brief Description of Responsibilities	**Traffic Control Plans.** *Brin will handle traffic control plans.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
07/21 - present	**EBR Computerized Traffic Signal, Phase VB (Baton Rouge, LA) Brin is the task leader for Vectura for the Construction Engineering and Inspection of 24 traffic signals.** Brin oversaw the review of signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Brin and Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.
07/19 – present	**MOVEBR New Capacity Projects Program Management (Baton Rouge, LA).** Brin is the lead traffic engineer for entire the New Capacity Projects program management team. All traffic engineering scope of services, traffic / speed data collection, traffic design studies, safety studies, and traffic signal design plans are reviewed by Brin. She is in constant communication with the Traffic Engineering staff of DOTD and EBR Traffic Engineering Department. She understands the current requirements for all aspects of traffic engineering projects
07/19 – present	**DOTD Belle Chasse Bridge & Tunnel Replacement PPP (Belle Chasse, LA).** Brin is the project manager for the temporary and permanent traffic signal plans for the intersections of LA 23 at Burmaster St and at Engineers Rd. She based her traffic signal plans on design year volumes that were developed using growth rates from the New Orleans Regional Planning Commission Travel Demand Model. This project is the first ever Public-Private-Partnership performed by DOTD.
09/20 – 12/21	**LA 30 Roundabouts at Tanger I-10 (Ascension Parish, LA).** Brin is the project manager for the design of temporary traffic signal plans that will be implemented during the roundabout construction along LA 30 in Gonzales, LA. The project involves replacing three existing signalized intersections with multilane roundabouts along LA 30 at I-10 Interchange ramps and at Tanger Boulevard. Vectura also developed signal timing plans for each phase of the construction to maintain progression along LA 30.
07/18 – 04/19	**LA 1 Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Design West Baton Rouge Parish, Addis, LA.** Brin developed a Pedestrian Crosswalk Study and Traffic Signal Construction Plans for the intersection of LA 1 at LA 990 in Addis, LA. The study was based on DOTD Traffic Engineering Manual Crosswalk Guidelines followed by traffic signal design plans based on DOTD requirements. The study included traffic and pedestrian traffic data collection, a speed study, crash analyses, intersection analyses and progression analyses. The signal plans included pedestrian signal equipment, signal timing parameter calculations, crosswalk striping, signs, DOTD pay items, estimated quantities, and construction cost. Brin also assisted with the Parish with the DOTD Permit Request for Intersection Control Devices on a State Right of Way.
09/17-04/18	**US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Equipment Design Slidell, LA.** Brin developed a formal traffic study for a proposed crosswalk with pedestrian traffic signal equipment and pedestrian clearance timings based on DOTD requirements. Brin assisted with vehicle and pedestrian data collection, spot speed study, analyzed 3-year intersection crash data and developed signal timing for pedestrians to cross the street. From the design study, a set of Traffic Signal Modification Plans were developed to implement the recommended alternative.

08/15-05/17	**Enhancing Guidance for Evacuation Time Estimate Studies (Nuclear Regulatory Commission Rockville, MD).** Brin conducted an applied research study of U.S. Nuclear Regulatory Commission guidance for developing evacuation time estimate studies and produced a technical basis for revision of NUREG/CR-7002 "Criteria for Development of Evacuation Time Estimate Studies" in support of the 2020 update of ETEs. Specifically, Brin was the lead VISSIM modeler for the "large" population models, which consisted of a 20-mile radius model. The VISSIM model input included traffic volumes distributed over 8 hours, highway and intersection lane geometry using links and connectors, conflict areas, traffic signal and stop control and speed. Brin also developed Dynamic Traffic Assignment code to simulate that fastest route out of the evacuated zone.
04/14 – 12/14	**Signal Design for N. Sherwood Forest Dr. Widening Project (Baton Rouge, LA).** As the project engineer, Brin was in responsible charge for data collection and design for three signalized intersections as part of a road widening project as per EBR DPW and DOTD requirements. Ms. Ferlito developed the traffic signal equipment, signal timing and communication construction plans, special provision specifications, quantities, and cost estimate. She also performed tasks to develop
07/12-03/14	**CE&I for EBR Traffic Signal Systems Jefferson Highway Construction (Baton Rouge, LA).** Brin was the Project Resident Engineer on behalf of EBR for performing CE&I services for the construction of 11 traffic signals. She maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into interstate I-12 fiber backbone and ATM / EOC building. She processed all monthly tasks in EBR formats as well as well as all items on the EBR project closeout checklist.
07/08-09/09	**CE&I for EBR Traffic Signal Systems Phase IV Construction (Baton Rouge, LA).** Brin was the Project Resident Engineer for DOTD and EBR to perform CE&I services for the construction of 21 traffic signals. She developed the project Sample Plan, maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, coordinated concrete sampling for DOTD Materials Lab, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into Airline Highway fiber backbone and ATM / EOC building. She processed all monthly tasks electronically in DOTD Site Manager and in EBR required formats as well as all items on the DOTD Project Closeout Checklist including the 2059 Report.
09/13 – 04/14	**Jefferson Hwy. Signal Design (Baton Rouge, LA).** Ms. Ferlito designed traffic signal plans for 11 intersections along Jefferson Highway between College Drive and the I-12 On Ramp in Baton Rouge. Design included traffic data collection, traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. Design also included traffic signal synchronization signal timing and pedestrian signal timing. She prepared estimated quantities, preliminary and final signal construction plans, and specifications.

Firm	Vectura Consulting Services, LLC		
Laurence Lucius Lambert, II, PE, PTOE, PTP Supervisor-Eng		Years of Relevant Experience with this Employer	9
		Years of Relevant Experience with Other Employer(s)	18
Degree(s) / Years / Specialization	B.S./1997/Civil Engr. M.S./2006/Civil Engr. (Transportation focus) M.B.A./2010		
Active Registration Number / State / Expiration Date	PE.0029901 / LA / 3/31/2026		
Year Registered	2002	Discipline	Civil
Contract Role(s) / Brief Description of Responsibilities	**Traffic Control Plans.** *Laurence will act as the Data Collection and Traffic Management Plan Supervisor.*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
07/19 – present	**MOVEBR New Capacity Projects Program Management (Baton Rouge, LA).** At the beginning of the program, Laurence worked with the Capital Region Planning Commission to produce measures of effectiveness from the travel demand model to prioritize the MOVEBR project list. Laurence and Pong Wu developed a list of vehicle miles traveled, V/C ratios and vehicles hours of delay. Laurence also provided peer review for the traffic studies for Ben Hur Road and Lee Drive.
07/23 – 11/23	**CCC Decorative Lighting Level 4 TMP (New Orleans, LA).** Laurence was the project manager for a Level 4 Traffic Management Plan (TMP) for the Crescent City Connection (CCC). Laurence oversaw the lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any "hot spots". The results were summarized in a report that was reviewed by DOTD.
04/23 – 10/23	**US 61 Bridges Girder Repairs (Baton Rouge, LA).** Laurence was the project manager for a Level 2 TMP for the interchange of I-12 at US 61. Laurence performed QA/QC for a lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any "hot spots" where Laurence also performed QA/PC. The results were summarized in a report that was reviewed by DOTD.
04/18 – 12/21	**LA 30 Roundabouts at Tanger & I-10 Gonzales (Ascension, LA).** Laurence provided a Quality Control review of the temporary construction and sequence of construction plans. Vectura also provided Quality Control review of signing and striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.
04/18 – 12/21	**US 171 at Boone St. (Vernon Parish, LA).** Laurence provided a Quality Control review of the temporary construction and sequence of construction plans. Vectura also provided Quality Control review of signing and striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the Manual on Uniform Traffic Control Devices (MUTCD) details on roundabouts.
02/20 – 09/21	**College Drive Corridor Enhancement from Perkins Road to I-10 (Baton Rouge, LA).** Laurence was the project manager to develop Chapter 1 (Data Collection), Appendix A (Initial Data Collection), and Appendix B (Final Data Collection) for proposed improvements College Drive. Since the I-10 interchange was included in the study, approval from DOTD was required. Vectura collected, turning movement counts, 85% speed data, travel time runs, queue measurements, field observations, verification of Traffic Signal Inventories, and bicycle / pedestrian / transit observations.

01/23 – 02/24	**Alexandria ITS Phase 2.** Laurence was the project manager for a System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan for the Alexandria area.
10/21—03/22	**Scott to Lake Charles (Lead Traffic Engineer).** Laurence was the lead traffic engineer for a Level 2 Traffic Management Plan (TMP) for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CAT Scan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis and public information strategies.
09/18 – 02/19	**Deployment Systems Engineering Analysis (Project Manager).** As a sub-consultant, Laurence was the task leader for the Constraints & Alternatives Analysis as well as the Projects & Procurement Strategy portion of the project. The goal of the project was to deploy Close Circuit Television (CCTV) cameras and one Dynamic Message Sign (DMS) along the I-110 corridor from US 190 to US 61. To communicate with the field devices from the Traffic Management Centers (TMCs), installing fiber optics along the I-110 corridor was recommended. The fiber optics also allow communication to the traffic signals at the interchange ramps along I-110 to the TMC.
06/12-12/12	**Ramp Metering Study of I-10 Segment, East Baton Rouge and Ascension Parishes, Louisiana (Project Manager).** Laurence conducted a feasibility study to deploy ramp meters along the Interstate 10 (I-10) Corridor in Baton Rouge between Dalrymple Drive and LA 73. The study consisted of analyzing 17 on-ramps under differing design conditions, which include the following: 2010 Existing, 2012 Without Ramp Meter, 2012 Ramp Meter, and 2012 Ramp Meter with Recommendations. Laurence's role in this project as project manager was to oversee all QA / QC measures and interpret the results from the model. Laurence coordinated with the local agencies to obtain all current proposed projects in the area, which included DOTD I-10 Widening Project Phases 1 and 2, the Green Light Plan (GLP) Essen Lane Widening Project, and the GLP Highland Road Widening Project
09/16 - 04/17	**I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study (St. Tammany Parish, LA).** Laurence was the lead traffic engineer for a DOTD traffic study for the new LA 3241 alignment with the purpose of obtaining both existing and projected future traffic variables in accordance with standard operating procedures typically performed in these types of analyses. Laurence worked closely with the NORPC and District 62 to develop design year volumes using data the TransCAD model. The traffic study examined concepts that improved the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management. Laurence, along with Brin, collected 7-day, 24-hour counts w/ classification on mainlines, turning movement counts for morning and evening peak periods and speed data for mainlines. Laurence also developed a VISSIM traffic simulation model of the preferred alternative.

Firm	GOTECH, Inc.		
John Biggs Survey Party Chief		Years of Relevant Experience with this Employer	6
		Years of Relevant Experience with Other Employer(s)	28
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	**Hydrographic and Topographic.** *Mr. Biggs is presently a Survey Party Chief with over 20 years of survey experience. Mr. Biggs has a working knowledge of total station operation, EDM equipment, Fathometer/Hydro equipment, data collection and GPS equipment. He has been involved in nearly every aspect of field surveying to include:* *- First order baseline traversing - Property boundary surveys - Cadastral layout* *- Cross section surveys - Topographic surveys - Construction layout* *- Automated hydrographic surveys - Photogrammetric surveys - Infra-structure surveys* *- Levee centerline profile surveys* *▪ Certified Traffic Control Technician – ATSSA Expires 7/11/2027* *▪ Certified Traffic Control Supervisor – ATSSA Expires 7/12/2027* *▪ Registered Flagger – ATSSA Expires 10/21/2026* *• OSHA 10-hour Construction Safety & Health • TWIC Expires 11/26/2024* *• Security Passport – Safety Council – BR ID# 9711780*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
02/19-present	**Pointe-Marie: A New Village, Baton Rouge, LA.** Mr. Biggs is currently the Lead Survey Technician for the on-going design and construction of Pointe-Marie. This project entails a planned community development of a mixed-use village encompassing over 120 acres. His duties include the layout of roadways, drainage, grading, sanitary sewer system, utility layout and coordination and overseeing construction activities. Phase I is complete and he is working on Phase II. Mr. Biggs also has been responsible for the boundary survey field work on the development. This work includes geometric calculations, property corner setting, elevation surveys and lot layouts. Working to improve drainage across overhead utilities and underground pipelines in the north end of the property to include Entergy Transmission and Distribution, Shell Pipeline, Baton Rouge Sewer Force Main and Entergy Gulf States.
11/19-05/21	**New Orleans Street Rehabilitation: RR101, RR102 – New Orleans Department of Public Works, Orleans Parish, LA.** Mr. Biggs was a Survey Technician providing topographic surveying services for roadway rehabilitation design. The project included static GPS control surveys, elevation level loop runs, and conventional topographic field surveys. Topographic field information gathered included roadway/ pavement surface features, drainage structures, both surface and subsurface utilities, and survey data on all features within the apparent right-of-way. All field data was collected in standard DOTD electronic feature code format.
11/19-06/21	**New Orleans Streets Rehab: RR119 RR120 – New Orleans Department of Public Works, Orleans Parish, LA.** For the roadway improvement projects in New Orleans, Mr. Biggs was the Lead Survey Technician for GOTECH. He has conducted topographic surveys that were used as the basis for new roadway improvement designs. Gutter line surveys were used for drainage calculation and his pavement surveys were used as the basis for new roadway geometric designs (vertical curves and horizontal geometry). All survey data was compiled in detailed plan/profile sheets resulting in a complete construction document package.

Firm	GOTECH, Inc.		
Bruce Dyson, P.E., P.L.S. Engineering & Surveying Manager		Years of Relevant Experience with this Employer	29
		Years of Relevant Experience with Other Employer(s)	16
Degree(s) / Years / Specialization	Bachelor's-of-Science / 1978 / Civil Engineering		
Active Registration Number / State / Expiration Date	P.E. License No. 20162 / LA / 3-31-2026; P.L.S. License No. 4670 / LA / 3-31-2026		
Year Registered	1982; 1992	Discipline	Registered Professional Civil Engineer; Professional Land Surveyor
Contract Role(s) / Brief Description of Responsibilities	**Hydrographic and Topographic.** *Mr. Dyson has been involved in a variety of survey projects. He is experienced in the areas of civil engineering, project management, construction administration and management, and cost estimating. Specific areas of expertise include drainage improvements, land surveying and flood control.* *Mr. Dyson has supervised up to five survey crews at GOTECH working on a variety of public and private contracts such as contracts with LA DOTD, US Army Corps of Engineers, Federal Aviation Administration, Parish governments, and New Orleans Sewerage & Water Board.* ▪ *Traffic Control Technician – ATSSA Expires 06/21/2026* ▪ *Traffic Control Supervisor – ATSSA Expires 06/22/2026* ▪ *Registered Flagger – ATSSA Expires 08/04/2026*		

Experience Dates	Experience and qualifications relevant to the proposed contract.
04/15 -present	**LADOTD, Acadian Rd Roundabout, Route LA 20 (Canal Blvd) & Local Routes (Back Street, Jackson Street, Thompson Place), Thibodaux, LA.** *Mr.* Dyson was the Engineering / Survey Manager providing professional supervision and project management oversight for the right-of-way mapping services to support parcel acquisition required for design of a new road roundabout in Thibodeaux, Louisiana. Project included field property surveys performed to DOTD survey standards and parcel title work reviews of affected properties. Final right-of-way map and parcel description deliverables, along with MicroStation parcel mapping files, were reviewed and submitted in accordance with established DOTD Location and Survey delivery requirements.
10/17 - 03/18	**LADOTD, I-10 at Morrison Rd Interstate Lighting, Orleans Parish, LA.** *Mr.* Dyson provided project oversight as Engineering / Surveyor Manager with supervision and project management of topographic surveys to support various interstate lighting design projects. The projects included static GPS control surveys and topographic field surveys performed to DOTD survey standards within the full limits of the highway interchange. The survey field information gathered included roadway surface features, drainage structures, designated subsurface utility locations, and structure data on elevated portions of the interstate bridge overpass. Final deliverables, and MicroStation mapping files, were certified and submitted in accordance with established DOTD Location and Survey delivery requirements.

02/14 - 11/16	**LADOTD, LA Hwy 431 at LA Hwy 934 Intersection Improvements, Ascension Parish, LA.** *Mr.* Dyson was the quality control reviewer for the Hwy 431 / 934 Intersection Improvements project. GOTECH provided topographic surveying and mapping services for the project. The work was located in Ascension Parish on what are currently two-lane highways with narrow shoulders and adjacent open ditch drainage. GOTECH field crews obtained field data in a format that was used in MicroStation CADD drawings with Inroad's software. GOTECH also mapped the data in an AutoCAD version for the designers to use. The topographic map showed existing features as pavement, ditches, culverts, lighting, signs, utility poles, traffic controls, driveways, and other utilities. GOTECH also developed an existing drainage map for the project. The watershed covered approximately 25 acres of contributing drainage area.
10/12 - 12/14	**LADOTD, I-10 (LA 30 to LA 22), Ascension Parish, LA.** Mr. Dyson was the quality control reviewer for the Interstate 10 project in Ascension Parish. The project included a segment of the Interstate from LA Hwy 30 to LA Hwy 22. Cross Sections were taken from right-of-way line to right-of-way line to provide data for the Interstate widening design. Overpass details were obtained to show bridge details, bent locations, piling spacing and clearance dimensions.
09/07 - 09/13	**LADOTD, New Orleans Submerged Streets Repair-Permanent Repair to Federal Aid Eligible Roads as a Result of Damage Due to Hurricane Katrina in 2005.** Mr. Dyson was the Engineering Coordinator for this project. GOTECH provided topographic surveying, preliminary and final roadway plans, and construction support for the project streets located in Jefferson and Orleans Parishes.
02/06 - 08/11	**LADOTD, John James Audubon Bridge Design/Build Project, St. Francisville, LA.** Mr. Dyson was an assistant design engineer on the project, performing quality control reviews on the construction documents. The cable-stayed bridge structure crossed the Mississippi River linking the St. Francisville area with the New Roads community. Approximately 3.5 miles of mainline and sideroad network were designed by GOTECH. The project involved intersection designs, drainage analysis, alignment geometric designs, profile/grade analysis and cost estimating.

Section 17

LA315 over Bayou DeLarge Bascule Bridge Inspection, Terrebonne Parish, LA

AECOM led the scoping and oversight efforts for the in-depth, hands-on inspection of this 2,311-ft multi-span bridge that includes a 150-ft, double-leaf trunnion bascule segment spanning over the Intracoastal Canal in Houma, LA. Detailed inspection of this structure included mechanical, electrical and structural components.

17. Firm Experience:

Firm Name	**AECOM Technical Services, Inc. (AECOM)**		Past Performance Evaluation Discipline(s)	Bridge	
Project Name	**LADOTD Contract No. 44-2687 (Project H.009730.5). In-depth Inspection of Complex Bridges, Statewide**		Firm Responsibility	Prime	
Project Number	Contract No. 44-2687 Project No. H.009730.5	Owner's Name	Louisiana (LADOTD) Department of Transportation and Development		
Project Location	Plaquemines Parish, LA		Owner's Project Manager	Haylye Brown, PE	
Owner's Address, Phone, Email	PO Box 94245, Baton Rouge, LA 70804-9245, 225.379.1500, haylye.brown@la.gov				
Services Commenced by This Firm	12/12	Total Consultant Contract Cost ($1,000's)		$5,717	
Services Completed by This Firm	06/18	Cost of Consultant Services Provided by This Firm ($1,000's)		N/A	

AECOM performed an in-depth inspection on several complex bridges throughout the state for the DOTD as part of the overall NBIS program. The bridge inspections include utilizing aerial boom lifts, Under Bridge Inspection (UBI/Snoopers) vehicles, and rope access as required for inspection access. The inspections include a hands-on inspection of all fracture critical bridge elements, bridge deck, and substructure inspections. In addition to the structural inspections, a paint condition assessment has been completed on most of the structures. Ultrasonic Testing (UT) of pin/hanger assemblies is performed as required. For the bascule movable bridges that were assigned, Louisa Bridge and Dularge Bridge, we completed a full hands-on inspection which included an in-depth mechanical and electrical inspection in accordance with the AASHTO requirements.

The assignment also included rehabilitation design of critical deficiencies found during our inspection and we performed deck condition studies utilizing infrared and ground penetrating radar technologies to evaluate the current condition of suspect concrete decks. All inspection activities required coordination with the LADOTD for lane closures and other stakeholders weeks ahead of the field work to ensure the inspections were completed safely, efficiently, on-time and within budget.

List of bridges: Gramercy Bridge (2013), US 190 EB and WB Structures over the Atchafalay a River (2014), I-210 Lake Charles Bridge (2014), Louisa Bridge (2015), Vicksburg Bridge (2015), Mississippi River Gulf Outlet Bridge (2015), Miller's Bluff Bridge (2016), Greater New Orleans Bridge (2016), LA 182 Morgan City Bridge (2017), LA 315 Dularge Bridge (2017).

Team Members: Brett Canimore, Henry Fix, Jason Mathers, Landon Whitton, Greg Bennett, Jason Zimpfer, Dave Raffensperger

Relevance to DOTD

- Complex Signature Bridges
- National Bridge Inspection Standards
- 100% hands-on inspection of all NSTM
- Ultrasonic testing of the bridge pins
- Paint condition assessment
- Deck condition studies Rehabilitation design
- Regular client communication and excellent client feedback for exemplary performance
- Inspection access via rope access climbing, bucket trucks, snooper and aerial boom lifts

Firm Name	**AECOM Technical Services, Inc. (AECOM)**		Past Performance Evaluation Discipline(s)	Bridge	
Project Name	**2022 Biennial Inspection of the Commodore Barry Bridge**		Firm Responsibility	Prime	
Project Number	N/A	Owner's Name	Delaware River Port Authority		
Project Location	Bridgeport, NJ and Chester, PA	Owner's Project Manager	Brigitte Kordzian		
Owner's Address, Phone, Email	One Port Center- 2 Riverside Drive, Camden, New Jersey 08101, 856.968.2068, b_kordzian@drpa.org				
Services Commenced by This Firm	2022	Total Consultant Contract Cost ($1,000's)	$1,050,301		
Services Completed by This Firm	Present	Cost of Consultant Services Provided by This Firm ($1,000's)	N/A		

AECOM performed the 2022 routine, fracture critical and in-depth inspection of the Commodore Barry Bridge, which carries Route 322 over the Delaware River between Chester, PA and Bridgeport, NJ. The inspection included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details. The main bridge includes a three-span, cantilever through truss, deck truss spans and steel stringer spans. The cantilever through truss with a main span of 1,644 feet, is the 4th longest cantilever bridge in the world and the longest in the US. The substructure units received a routine visual inspection with suspect areas highlighted for further evaluation.

In addition, the inspection included routine inspection of the twin Route 130 overpass bridges, Ramps A & B, sign structures, signal gantries, toll plaza light towers, and the toll facility structure. The inspection utilized under bridge inspection vehicles, bucket trucks, man-lifts and ladders. SPRAT certified climbers were used to access the highest members of the truss. This project also included ultrasonic testing of the pins and electro-slag welds and a select number of A514 butt welds on the bridge. Inspectors also visually inspected a select number of vibration dampers on the bridge.

All inspection work was performed with minimal disruption to vehicular and truck traffic as well as to the flow of marine, railroad and highway traffic under the structure.

As a part of this contract, on-call emergency inspections were completed for a vehicle fire below the bridge and after a high wind event.

The results of the inspection have been presented in a structural inspection report noting all typical deficiencies and presenting the general condition of the bridge and any significant changes or new deficiencies and findings. Bridge data was updated for NJDOT and PennDOT reporting for the bridge condition and the inventory elements. An executive briefing was also prepared and delivered to DRPA.

Relevance to DOTD

- Complex Signature Bridge
- National Bridge Inspection Standards
- 100% hands-on inspection of all NSTM
- Ultrasonic nondestructive testing of bridge pins
- Ultrasonic nondestructive testing of T1 steel welds
- Regular client communication and excellent client feedback for exemplary performance

Team Members: Brett Canimore, Henry Fix, Jason Mathers, Dave Raffensperger, Greg Bennett, Mike Zavorski, Sean Quick, Brendan Kearns, Gabe Umholtz

Firm Name	**AECOM Technical Services, Inc. (AECOM)**		Past Performance Evaluation Discipline(s)	Bridge	
Project Name	**KYTC OHIO RIVER FRACTURE CRITICAL BRIDGE INSPECTIONS**		Firm Responsibility	Prime	
Project Number	N/A	Owner's Name	Kentucky Transportation Cabinet (KYTC)		
Project Location	Statewide, KY	Owner's Project Manager	Ashley Graves, PE		
Owner's Address, Phone, Email	200 Mero Street, Frankfort, KY 40622 502-564-4556, Ashley.Graves@ky.gov				
Services Commenced by This Firm	2023	Total Consultant Contract Cost ($1,000's)	$899		
Services Completed by This Firm	2024	Cost of Consultant Services Provided by This Firm ($1,000's)	$682		

This project included an arms-length inspection of all non-redundant steel tension members (steel tension members whose failure will result in loss-of-span) and fatigue sensitive details (details with a tendency to fail at a stress level below yield stress when subjected to cyclical loading). The arm's length inspection included primary truss members, cable anchorage connections, floorbeam support connections, the structural steel below expansion joints, pins, and other miscellaneous items. Magnetic particle testing was performed where new cracks were found or suspected, and to verify previously noted cracks. Ultrasonic thickness gauges were used to record gusset plate section loss. UAS was utilized to inspect bridge elements when feasible. NBI level inspection was performed on all other bridge elements, including the deck, non-fracture critical members, substructure, lighting, etc.

To minimize the impact to traffic and to access difficult to reach areas, AECOM utilized rope access techniques to inspect portions of these bridges.

AECOM performed element level inspections and input the inspection findings into AASHTOWare's BrM bridge management software package. AECOM also prepared an inspection report, outlining inspection methods, significant findings, maintenance suggestions, and recommended repairs. The inspections were conducted utilizing the Specifications for National Bridge Inventory (SNBI), Bridge Inspector's Reference Manual (BIRM), the current edition of the AASHTO Manual for Bridge Element Inspection, and the Recording and Coding Guide for Structural Inventory and Appraisal of the Nations Bridges. SNBI data spreadsheets were prepared for the inspections conducted in 2023.

This statewide project demonstrates AECOM's regional experience performing indepth inspections of Ohio River Bridges. AECOM's history of inspecting fracture critical bridges, familiarity with Kentucky's signature structures, and positive relationship with the KYTC Division of Maintenance will be assets in executing the assigned NBI/Element Level/Fracture Critical Inspections. AECOM has the in-house experience, equipment and personnel to successfully complete all required services.

Relevance to DOTD

- NSTM Inspections
- UAS Inspections
- Element Level Inspections
- SNBI & NBIS
- Bridge Load Rating
- Access via Rope Access, Snoopers, Man-Lifts

Team Members: Craig Klusman, Joe Whelan, Allen Cantrell, Edmund Hayes, Michal Luckett, Morgan Baumann, Henry Fix, Ian McElhone, Bob Anderson, Kyle Compton-Troesch, Landon Whitton, Jason Jones

Firm Name	**AECOM Technical Services, Inc. (AECOM)**		Past Performance Evaluation Discipline(s)	Bridge	
Project Name	**DRPA 2020 Biennial Inspection of the Betsy Ross Bridge**		Firm Responsibility	Prime	
Project Number	N/A	Owner's Name	Delaware River Port Authority (DRPA)		
Project Location	Pennsauken, NJ & Philadelphia, PA	Owner's Project Manager	Brigitte Kordzian		
Owner's Address, Phone, Email	One Port Center- 2 Riverside Drive, Camden, New Jersey 08101, 856.968.2068, b_kordzian@drpa.org				
Services Commenced by This Firm	03/20	Total Consultant Contract Cost ($1,000's)	$850		
Services Completed by This Firm	03/22	Cost of Consultant Services Provided by This Firm ($1,000's)	N/A		

AECOM performed the 2020 routine and in-depth inspection of the Betsy Ross Bridge, which carries Route 90 over the Delaware River between Philadelphia, PA and Pennsauken, NJ. The inspection included a close visual "hands-on" inspection of all fracture critical and fatigue sensitive details. The substructure units received a routine visual inspection with suspect areas highlighted for further evaluation. The channel and piers received an underwater inspection including a high frequency side scan sonar and hydrographic survey.

In addition, the Inspectlon included routine Inspectlon of the PA and NJ approach structures, high mast lights, sign structures, signal gantries, dolphins, and the toll facility structure. Inspection access routinely utilized under bridge inspection vehicles, bucket trucks, aerial boom lifts and ladders. The inspection effort also included the use of an unmanned aerial vehicle (UAV) drone to complement our traditional hands-on inspection and to demonstrate ways this technology can be utilized by the Authority for future biennial inspections. The inspection fieldwork required extensive coordination with on-going maintenance and contractor activities. All inspection work was performed with minimal disruption to vehicular and truck traffic on the corridor, as well as to the flow of marine, railroad and highway traffic under the structure.

The project also included a load rating analysis of the River Road approach structure and an EV load rating analysis of the US130 overpass as well as numerous off-cycle inspection tasks to monitor key components of the bridge. The discovery of fatigue cracks in numerous light poles required an expedited reporting of the critical findings and adjusting the work within the project schedule without impacting the overall project schedule or budget. AECOM also hosted monthly Quality Assurance meetings during the active months of the inspection and reporting tasks for the purpose of keeping the Authority updated with the progress of the project and any issues.

Team Members: Brett Canimore, Henry Fix, Jason Mathers, Dave Raffensperger, Greg Bennett, Mike Zavorski, Sean Quick

Relevance to DOTD

- Complex Signature Bridges
- National Bridge Inspection Standards
- 100% hands-on inspection of all NSTM
- Inspection access via bucket trucks, snooper and aerial boom lifts
- Underwater inspection of channel piers
- Use of aerial drone to aid inspection

Firm Name	**AECOM Technical Services, Inc. (AECOM)**		Past Performance Evaluation Discipline(s)		Bridge
Project Name	**MDOT 2018 Routine / Fracture Critical Inspection of the Greenville Bridge (US 82 over Mississippi River)**		Firm Responsibility		Prime
Project Number	N/A	Owner's Name	Mississippi Department of Transportation (MDOT)		
Project Location	Lake Village, AR and Greenville, MS	Owner's Project Manager	Richard Withers		
Owner's Address, Phone, Email	PO Box 1850, Jackson, MS 39215-1850, 601.359.7200, rwithers@mdot.ms.gov				
Services Commenced by This Firm	08/18	Total Consultant Contract Cost ($1,000's)		$612	
Services Completed by This Firm	07/19	Cost of Consultant Services Provided by This Firm ($1,000's)		N/A	

The US 82 over Mississippi River Bridge is a cable-stayed structure connecting Mississippi and Arkansas. The West Abutment sits in Chicot County, AR and the East Abutment sits in Washington County, MS. The bridge is 2.6 miles total in length from Abutment to Abutment. The Mississippi River is spanned by three cable-stay girder units, leaving two piers in the navigable waterway. The main spans (Spans 36, 37, 38) are 596 feet, 1,378 feet, and 596 feet, respectively. Piers 37 and 38 are the primary support for the main spans.

AECOM was contracted to provide Routine (Element) and Fracture Critical Bridge Inspection services by the Mississippi Department of Transportation.

This inspection was performed October 6, 2018 to October 19, 2018. The inspection occurred daily from 8:00AM to 5:00PM. Single lane closures were used during this inspection, in both Eastbound and Westbound directions.

Main span pier and tower inspections were performed using rope-access as well as built-in access methods. Cable sheathing inspections were performed utilizing UAV (Unmanned Aerial Vehicle) assistance. The UAV was a DJI Matrice 210 RTK using TB55 batteries (12 sets total). An RTK ground station was utilized to send a signal to the UAV to stabilize it in high winds. The camera system was a DJI 230 zoom camera.

A 120-ft lift-platform vehicle was used for cable and tower inspection. The below deck approach span inspections were accomplished by utilizing two under bridge inspection vehicles (UB 60). Below deck main span inspections were performed using the built-in inspection traveler.

Deck surveys and hydrographic surveys were performed by a sub-consultant.

Team Members: Brett Canimore, Landon Whitton, Jason Mathers, Dave Raffensperger, Kevin Curley, John Delp

Relevance to DOTD

- Complex Signature bridges
- National Bridge Inspection Standards
- Element level inspections
- 100% hands-on inspection of NSTM
- Cable supported structures
- Non-destructive testing
- Access via rope access, snooper and aerial boom lifts
- Use of aerial drone to aid inspection

Firm Name	**Consor Engineers, LLC**		Past Performance Evaluation Discipline(s)	Bridge	
Project Name	**Underwater Bridge Inspection**		Firm Responsibility	Prime	
Project Number	4400019122	Owner's Name	Louisiana Department of Transportation and Development		
Project Location	Statewide, Louisiana	Owner's Project Manager	Heather Deare		
Owner's Address, Phone, Email	1203 Capitol Access Road, Baton Rouge, LA 70804/225.349.1200/heather.deare@la.gov				
Services Commenced by This Firm	08/22	Total Consultant Contract Cost ($1,000's)	$6,000 to date		
Services Completed by This Firm	Present	Cost of Consultant Services Provided by This Firm ($1,000's)	$6,000 to date		

Under three consecutive contracts, from 2013 to the present, Consor has performed 1,467 underwater bridge inspections in LADOTD Districts statewide. Consor's most recently completed task order (2022) closed out our second consecutive contract, with the third consecutive contract's first task order also starting in 2022. Inspections have included challenging aspects specifically related to wildlife, fast currents, difficult access, as well as culvert structures requiring penetration dives through extensive silt and debris buildup. This project has included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges from small one-span bridges to larger bridges over major waterways such as I-10 Eastbound/Westbound bridges and US 11 over Lake Pontchartrain, I-10 Eastbound/Westbound over the Bonnett Carre Spillway and multiple bridges over the Red River. Acoustic imaging, 2D and 3D, has also been performed on select bridges, including Mississippi River crossings. NBIS, element-level condition ratings, and as of the start of 2023, SNBI ratings are reported in LADOTD's bridge management database, which switched from AssetWise to InspectX in 2023. CADD inspection drawings, streambed cross sections.

Team Members: Heath Pope; Michael Dukes; Laura Miller; Matthew Ratliff; Michael Sorensen; Andrew Harrison; Arthur LeForge

Relevance to DOTD

- Complex Signature Bridges
- National Bridge Inspection Standards
- Underwater dive inspections
- Underwater Acoustic Imaging
- SNBI Condition Ratings
- Use of Inspect X

Firm Name	**Consor Engineers, LLC**		Past Performance Evaluation Discipline(s)	Bridge	
Project Name	**Underwater Acoustic Imaging for Bridge Inspection,**		Firm Responsibility	Sub	
Project Number	H.005365.5	Owner's Name	Louisiana Department of Transportation and Development		
Project Location	Statewide, Louisiana	Owner's Project Manager	Heather Deare		
Owner's Address, Phone, Email	1203 Capitol Access Road, Baton Rouge, LA 70804/225.349.1200/heather.deare@la.gov				
Services Commenced by This Firm	11/11	Total Consultant Contract Cost ($1,000's)	N/A		
Services Completed by This Firm	09/14	Cost of Consultant Services Provided by This Firm ($1,000's)	$1,414		

As a subconsultant, Consor assisted in the performance of underwater acoustic imaging for the inspection of 100+ bridge piers throughout the state of Louisiana. Consor provided diver investigations of any anomalies that were found. The pier inspections included both sides of the piers and the upstream and downstream noses of the piers. The scans were performed to identify and locate any major damage or deterioration, such as corrosion, loss of section, or scour undermining. Equipment required for these scans included a multi axis, steered beam imaging and profiling remote sensing system. All surface-supplied air diving was performed by ADCI-certified divers. Detailed reports were generated and submitted to LADOTD.

Team Members: Michael Dukes

Relevance to DOTD

- Complex Signature Bridges
- Underwater dive inspections
- Underwater Acoustic Imaging

Firm Name	**Consor Engineers, LLC**		Past Performance Evaluation Discipline(s)	Bridge	
Project Name	**FDOT District Two Area Wide State Bridge Inspection (Interstate and Non-Interstate)**		Firm Responsibility	Prime	
Project Number	CAJ78	Owner's Name	Florida Department of Transportation – District 2		
Project Location	Florida, Districtwide	Owner's Project Manager	Melissa Morgan		
Owner's Address, Phone, Email	710 NW Lake Jeffrey Rd, Suite 202, Lake City, FL/386.961.7060/melissa.morgan@dot.state.fl.us				
Services Commenced by This Firm	07/22	Total Consultant Contract Cost ($1,000's)		$6,711 to date	
Services Completed by This Firm	Present	Cost of Consultant Services Provided by This Firm ($1,000's)		$6,711 to date	

In 2022, Consor was re-selected by District 2 to perform four additional years of in-depth NBIS routine and hands-on complex inspections, including NSTM and underwater, for an expanded inventory of more than 270 bridges carrying on-interstate and off-interstate highways located primarily in the Jacksonville area. Included in this contract are two of Jacksonville's signature steel trusses: the Isaiah David Hart Bridge and the John E. Mathews Bridge. The Hart bridge consists of a 1,620-ft., three span continuous arch and suspended deck, bolted-connected modified warren through trusses using rivetless welded built-up members. The Hart's main span is 1,088 ft. with a vertical clearance of 141 ft. and 14 prestressed concrete multi-beam approach spans. The Mathews bridge consists of a 2,586-ft. six span steel cantilever riveted truss, with pin and hanger connections. The Mathews main span is 810 ft. with a 152-ft. vertical clearance. Technical rope access techniques are utilized to inspect these bridges to not interrupt traffic. Aerial lifts are only used to gain access to the pin and hangers for NDT.

An additional complex bridge inspection included the Dames Point Cable Stay bridge. Technical rope access techniques were used for this inspection. The Dames Point Bridge's main three spans are cable stay with 471-ft. tall towers, a main span of 1,300 ft. with a vertical clearance of 175 ft. Excessive vertical clearances of the northern approach spans and the roadway width of more than 100 ft. require approved drone inspection techniques with high resolution cameras and impact avoidance AI to observe the deck bottom surfaces, floor beams, and post tension grouted pockets. Off-interstate complex inspections included two bascule bridge inspections, one of which is the 1,545-ft.-long historic Bridge of Lions, with approach spans consisting of a nonredundant two girder floor beam system. Difficult access locations utilize under bridge inspection vehicles, bucket trucks, barges, aerial lifts, and approved drone techniques.

Our scope also includes underwater inspection services for an additional 103 bridges with lengths ranging from less than 500 ft. to 5,000+ ft. using surface-supplied air or commercial SCUBA, performing level II and level III inspections, including penetration dive inspections, hydrographic multi-beam swath surveys for six bridges, LRFR bridge load rating on an as needed basis, and post-storm assessment inspections. Underwater ROVs were also used. Structures are in tidal areas, high velocity flows waterways, and large lakes with water depths up to 90 ft. Each inspection requires a comprehensive BrM engineering report with photographs and drawings.

Relevance to DOTD

- Complex Signature Bridges
- National Bridge Inspection Standards
- 100% hands-on inspection of NSTM
- Ultrasonic testing of the pin and hangers
- Inspection access via rope access climbing, bucket trucks, barges, aerial lifts, and UAS.
- Underwater dive inspections
- Underwater Acoustic Imaging

Team Members: Eric Harbeson, Dustin Noel, Benjamin Schaefer, Chris Sasher; Dylan Lewis; Luke Brandherm; Andrew Harrison

Firm Name	**Huval and Associates, Inc.**		Past Performance Evaluation Discipline(s)	Bridge	
Project Name	**Retainer Contract for In Depth Bridge Inspection**		Firm Responsibility	Sub	
Project Number	4400002687	Owner's Name	LADOTD		
Project Location	Louisiana (Statewide)	Owner's Project Manager	Haylye Brown, P.E.		
Owner's Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 70804 / 225.349.1200 / haylye.brown@la.gov				
Services Commenced by This Firm	01/13	Total Consultant Contract Cost ($1,000's)	$4,000		
Services Completed by This Firm	12/16	Cost of Consultant Services Provided by This Firm ($1,000's)	$260		

As a sub-consultant to AECOM, Huval provided inspection assistance, traffic control, and QA/QC services on the retainer contract. Bridges inspected by Huval include the following:

Krotz Springs US 190 Bridge over Atchafalaya: Huval provided survey services, traffic control, field inspections of concrete girder approaches, element level evaluations, Inspection Reports, and QA/QC.

LA 3213 Over Mississippi River (Gramercy): Huval provided field inspections of concrete girder approaches, steel girder approach spans, as well as deck topside elements. Huval also provided traffic control, element level evaluations, inspection reports, and QA/QC.

I-20 Over Mississippi River (Vicksburg): Huval provided field inspections of the deck, steel girders, floorbeams, stringers, concrete abutments, reinforced concrete frame bents, piers, walkways, and access ladders. Huval also provided traffic control, element level evaluations, inspection reports, and QA/QC.

LA 47 over MRGO: Huval provided field inspections of the deck, concrete slab spans, prestressed concrete girder spans, steel girder spans, abutments, concrete approach bents, and main piers. Huval also provided traffic control, element level evaluations, inspection reports, and QA/QC.

LA 319 over Intracoastal Canal: Huval provided field inspections of the deck, concrete girder spans, bearings, abutments, and reinforced concrete approach piers. Huval also provided traffic control, element level evaluations, inspection reports, and QA/QC.

GNO Bridge No. 1: Huval provided field inspections of the deck.

Team Members: David S. Huval, Sr., Colby Guidry, Eddie Smith, Malcolm Huval, Raymond Provost

Relevance to DOTD

- Complex Signature Bridges
- National Bridge Inspection Standards
- 100% hands-on inspection of NSTM
- Inspection access via rope access climbing, bucket trucks, snooper, and aerial lifts.

Firm Name	**Huval and Associates, Inc.**		Past Performance Evaluation Discipline(s)	Bridge	
Project Name	**Terrebonne Inspection, Repair and Ratings**		Firm Responsibility	Prime	
Project Number	N/A	Owner's Name	St. Martin Parish Government		
Project Location	St. Martin Parish, Louisiana	Owner's Project Manager	Wes Dupuis		
Owner's Address, Phone, Email	301 W. Port St., St.Martinville, LA 70582, (337) 394-2200 , wdupuis@stmartinparish.net				
Services Commenced by This Firm	01/2021	Total Consultant Contract Cost ($1,000's)	$100 (Annually)		
Services Completed by This Firm	Present	Cost of Consultant Services Provided by This Firm ($1,000's)	$100		

Huval & Associates, Inc. (HUVAL) was contracted to develop and implement a bridge management system (BMS) for the off-system bridges in St. Martin Parish. The BMS includes present management of 50 bridges in the parish with regular inspections, bridge repair plans and coordination, load rating and posting of structures, and present requirements for LADOTD compliance.

HUVAL performs all 6-month, 12-month, and 24-month NBIS inspections on all bridges in the parish. HUVAL also performs all load ratings as required per LADOTD and the NBIS. Using the inspection and rating data, HUVAL prepares repair recommendations and implements repair projects in order to maintain the safe usage of the Parish's bridges.

Bridge types in the Parish include bridges that are comprised of timber, concrete, steel, concrete decks with timber piles and caps, and other combinations such as two swing spans and one pontoon bridge that is inspected annually. HUVAL has completed repair plans and the construction repair of 13 bridges that are comprised of precast concrete decks supported by either precast concrete caps or timber caps and timber piles. The repairs on these bridges consisted of timber pile splices, timber cap repair or replacement, concrete spall patching, joint sealing, embankment repair or reconstruction, approach slab repair or replacement, timber bulkhead repair or replacement, and other miscellaneous items. Many of these bridges had timber pile repairs performed while the bridges remained open for traffic. HUVAL also has completed the repair plans and completed the construction repair of 3 full timber bridges. These timber bridge repairs consisted of the repair or replacement of timber deck boards, stringers, caps, and or piles. HUVAL has also completed repair plans and construction repair of a steel pontoon bridge and its timber approach spans.

Load ratings are regularly applied to various structure types including concrete, timber, swing span and pontoon bridges. Repair and preventative maintenance plans are developed as needed to ensure best use of the parish budgets.

Team Members: David S. Huval, Justin Peltier

Relevance to DOTD

- National Bridge Inspection Standards
- 100% hands-on inspection of NSTM
- Inspection of Movable Bridges

Firm Name	**Huval and Associates, Inc.**		Past Performance Evaluation Discipline(s)		Bridge
Project Name	**St. Martin Parish Bridge Inspection, Repair and Ratings**		Firm Responsibility		Prime
Project Number	N/A	Owner's Name	Terrebonne Parish Government		
Project Location	Terrebonne Parish, Louisiana	Owner's Project Manager	David Rome		
Owner's Address, Phone, Email	8026 W. Main St. #101 Houma, LA 70360 (985) 868-5050, drome@tpcg.org				
Services Commenced by This Firm	01/17	Total Consultant Contract Cost ($1,000's)		$130 (Annually)	
Services Completed by This Firm	Present	Cost of Consultant Services Provided by This Firm ($1,000's)		$130	

Huval & Associates, Inc. (HUVAL) was contracted to perform load ratings, inspections, and bridge documentation for over 58 bridges in the parish in order to bring the parish into full conformance with the NBIS and LADOTD requirements. During this inspection and rating process several bridges required preventative maintenance design, plans, and repair project development. The bridges inspected, load rated, and repaired included steel swing span bridges, steel lift bridges, timber bridges, concrete bridges, steel pipe culverts, cast in place concrete culverts, and a steel bascule bridge.

HUVAL prepared repair plans and maintained oversight over the construction of the repairs for several bridges that required timber cap repair or replacement and/or timber pile splices. Timber pile splices were performed using multiple techniques including steel pipe sleeve with concrete fill as well as aramid fiber wrap splices. Timber caps were repaired, strengthened as necessary, or replaced. Much of the pile repair work was performed while the bridge was still operating with traffic. HUVAL also prepared full rehabilitation plans for a steel bascule span bridge which included rehab to the steel girders, timber caps, timber piles, steel piles, machinery, and other miscellaneous items on the bridge.

Huval & Associates, Inc. is performing 100% of the work for this project in the State of Louisiana.

Team Members: David S. Huval, Colby Guidry, Justin Peltier

Relevance to DOTD

- National Bridge Inspection Standards
- 100% hands-on inspection of NSTM
- Inspection of Movable Bridges

Firm Name	**KPFF, Inc. dba KPFF Consulting Engineers**		Past Performance Evaluation Discipline(s)		Bridge
Project Name	**In-depth Stay Cable Inspection and Replacement Design for the Hale Boggs Bridge**		Firm Responsibility		Prime
Project Number	N/A	Owner's Name	LADOTD		
Project Location	Luling, LA	Owner's Project Manager	Paul Fossier		
Owner's Address, Phone, Email	1201 Capitol Access Road, 6th floor; Baton Rouge, LA 70802; (225) 379-1438; Paul.fossier@la.gov				
Services Commenced by This Firm	03/09	Total Consultant Contract Cost ($1,000's)		1,000	
Services Completed by This Firm	09/11	Cost of Consultant Services Provided by This Firm ($1,000's)		500	

KPFF professionals led a team and successfully completed the in-depth inspection effort for a 1,230-foot-span cable-stayed bridge across the Mississippi River. The inspection included hands-on inspection of main span superstructure encompassing twin trapezoidal steel box girders, orthotropic steel deck, supporting steel towers, and the stay cable array. Work included development of approach, including inspection methods and scope, access methods, maintenance of traffic, and an extensive NDT program for steel superstructure and stay cables.

Detailed inspection and nondestructive testing revealed that the condition of 39 out of the bridge's 72 cables was questionable, with multiple cables requiring substantial repair or replacement. The stay cables were comprised of a cement-grouted, ¼-in diameter parallel wire system. Several strategies involving a range of repair and replacement options were evaluated, using life cycle cost analysis. It was concluded that replacing all cables presented the best value among evaluated alternatives. The design of the complete 72-cable array replacement is the first occasion on which this process was attempted in North America. The final design of the replacement cables was heavily influenced by the geometric restrictions of the existing anchorage locations. The replacement cables are designed for a 75-year design life and incorporate the advancements made in corrosion protection and vibration control since the original design of the bridge. Maintenance of traffic design was an essential part of the project, since I-310 is a critical regional link and hurricane evacuation route in the State of Louisiana. Traffic maintenance during cable replacement was designed to be as unobtrusive to the public and commerce as practical – the cable replacement was staged to occur with minimal lane closures. A stay cable replacement construction contract totaling $31,000,000 was awarded in 2009, and was completed in 2011.

Team Members: Chris Ligozio, Scott Wyatt

Relevance to DOTD

- Complex Signature Bridges
- In-Depth Inspection\
- 100% Hands-on Inspection
- Non-destructive Testing of Steel Superstructure and Stay Cables
- Inspection access via snooper and aerial boom lifts.

Firm Name	**KPFF, Inc. dba KPFF Consulting Engineers**		Past Performance Evaluation Discipline(s)		Bridge
Project Name	**In-depth Inspection, Testing, and Rehabilitation Plan Development of KYTC William H. Natcher and William H. Harsha Cable Stay Bridges**		Firm Responsibility		Sub
Project Number	N/A	Owner's Name	Kentucky State DOT		
Project Location	Owensboro and Maysville, KY	Owner's Project Manager	Daryl Greer, PE		
Owner's Address, Phone, Email	Kentucky Transportation Cabinet, Division of Maintenance, Bridge Preservation Branch, 200 Mero Street, Frankfort, KY 40622; (502) 564-4556; Daryl.Greer@ky.gov				
Services Commenced by This Firm	01/22	Total Consultant Contract Cost ($1,000's)		N/A	
Services Completed by This Firm	10/23	Cost of Consultant Services Provided by This Firm ($1,000's)		196	

In 2022, KPFF was a subconsultant on a team that provided in-depth inspection and testing of the stay cable systems on both the Natcher (Owensboro) and Harsha (Maysville) Cable Stay Bridges for the Kentucky Transportation Cabinet. Both cable-stayed structures were constructed in the early 2000's and have similar stay cable system details. Both structures currently exhibit extensive cracking of the HDPE cable sheathing pipes and interior grout, allowing the ingress of moisture and contaminants, raising concerns for potential corrosion within the cables. KPFF provided visual inspection of cable anchorages, vibration-based force measurements, ultrasonic testing (UT) of strand tails at select lower and upper anchors and laboratory analysis of the grease, grout and water samples obtained from the stay cable anchorages. KPFF was also involved in a 2012 inspection of the Natcher Bridge, providing ultrasonic testing of all 96 deck-level anchorages. The data collected by the Team was used to develop recommendations to address cable deficiencies

Team Members: Chris Ligozio, Scott Wyatt

Relevance to DOTD

- Complex Signature Bridges
- In-Depth Inspection
- 100% Hands-on Inspection
- Non-destructive Testing of Stay Cables and Cable anchorages

Firm Name	**KPFF, Inc. dba KPFF Consulting Engineers**		Past Performance Evaluation Discipline(s)	Bridge	
Project Name	**Major River Bridge Inspections**		Firm Responsibility	Prime	
Project Number	169-040	Owner's Name	Illinois Department of Transportation		
Project Location	Throughout, IL	Owner's Project Manager	Steven Negangard		
Owner's Address, Phone, Email	2300 S Dirksen Parkway, Springfield IL 62764; 217-782-8988 Steve.Negangard@illinois.gov				
Services Commenced by This Firm	02/16	Total Consultant Contract Cost ($1,000's)	2,000		
Services Completed by This Firm	05/18	Cost of Consultant Services Provided by This Firm ($1,000's)	800		

KPFF was the prime consultant for a 4 year term inspection contract to inspect major river bridges throughout Illinois. Sixteen bridges were assigned over the term of the agreement including truss, tied arch, tub girder and suspension bridge types. Inspection efforts included routine, in-depth, fracture critical, under water and damage related special inspections. NDT methods employed included ultrasonic, dye penetrant and magnetic particle. Extensive pre-inspection communication was required with the district bridge offices, railroads, utilities, Coast Guard, local property owners, sub consultants, and access and traffic control subcontractors. Specialty inspection capabilities included operating access equipment, confined space, and climbing and rigging as required. Keys to a successful inspection include extensive planning to evaluate personnel, equipment, safety, documentation and access needs; safe, efficient and thorough field work; and consistent and accurate reporting.

Team Members: Chris Ligozio, Scott Wyatt

Relevance to DOTD

- Complex Signature Bridges
- In-Depth Inspection
- 100% Hands-on Inspection
- Non-destructive Testing of Steel Superstructure and Stay Cables
- Inspection access via snooper and aerial boom lifts.

Firm Name	**KTA-Tator, Inc.**		Past Performance Evaluation Discipline(s)		Bridge
Project Name	**Major River Bridge Inspections**		Firm Responsibility		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	02/24	Total Consultant Contract Cost ($1,000's)			$5,000
Services Completed by This Firm	04/24	Cost of Consultant Services Provided by This Firm ($1,000's)			$12

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.

Relevance to DOTD

- Complex Signature Bridges
- Steel Coating Condition Assessment

Team Members: Robert Lanterman

Firm Name	**KTA-Tator, Inc.**		Past Performance Evaluation Discipline(s)	Bridge	
Project Name	**Jackson Avenue (Red River) Lift Bridge**		Firm Responsibility	Sub	
Project Number	4400013322, TO #1	Owner's Name	LADOTD (Gresham, Smith Partners – GSP – prime consultant)		
Project Location	Alexandria, LA	Owner's Project Manager	John Weres, PE, GSP		
Owner's Address, Phone, Email	10000 Perkins Rowe, Suite 280, Baton Rouge, LA 70810 225-960-5480 john.weres@greshamsmith.com				
Services Commenced by This Firm	02/20	Total Consultant Contract Cost ($1,000's)	$5,000		
Services Completed by This Firm	05/20	Cost of Consultant Services Provided by This Firm ($1,000's)	$11		

The Jackson Avenue (Red River) Lift Bridge in Alexandria, Louisiana carries two lanes of traffic over the Red River. The main span is a through truss design with a 300' vertical lift span centered between the two towers.

Under Gresham Smith's task order agreement with LADOTD, KTA completed a coating condition assessment of this bridge. The coating condition assessment was conducted on February 18 and 19, 2020. 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 Gresham Smith. A discussion of various maintenance painting operations was presented along with recommendations for the maintenance painting of this structure.

Team Members: Robert Lanterman

Relevance to DOTD

- Complex Signature Bridges
- Steel Coating Condition Assessment
- Movable Bridge

Firm Name	**KTA-Tator, Inc.**		Past Performance Evaluation Discipline(s)	Bridge	
Project Name	**Phased Array UT Inspection of Bridge Pins**		Firm Responsibility	Sub	
Project Number	N/A	Owner's Name	North Dakota DOT (Fickett Structural Solutions – prime consultant)		
Project Location	Various locations throughout North Dakota	Owner's Project Manager	Todd Demski (Fickett)		
Owner's Address, Phone, Email	11425 Hanson Blvd. NW, Minneapolis, MN 55433 763-285-7963 tdemski@fickettinc.com				
Services Commenced by This Firm	10/21	Total Consultant Contract Cost ($1,000's)	$200		
Services Completed by This Firm	10/21	Cost of Consultant Services Provided by This Firm ($1,000's)	$21		

In October 2021, as a subconsultant to Fickett Structural Solutions (Fickett), KTA provided Phased Array Ultrasonic Testing (PAUT) of bridge pins on various bridges throughout the state of North Dakota. PAUT is used to detect component failures and can be applied for inspection of welds, thickness measurements, corrosion inspection, and flaw detection.

The KTA NDE Inspector conducted the PAUT testing in accordance with NDDOT specifications, KTA standard operating procedures, and NDDOT/Fickett contract documents. The KTA NDE Inspector prepared daily inspection reports to document the activities and findings as witnessed at each bridge location. The reports were submitted to the Engineer after review by the KTA Project Manager. Material requiring rework was not released until properly repaired.

Team Members: James Kretzler

NDDOT
North Dakota Department of Transportation

Relevance to DOTD

- Complex Signature Bridges
- Non-Destructive Testing of Bridge Pins

Firm Name	**T. Baker Smith, LLC**		Past Performance Evaluation Discipline(s)	Survey	
Project Name	**Pier 1 Removal (Leeville Bridge)**		Firm Responsibility	Prime	
Project Number	H.008149	Owner's Name	Louisiana Department of Transportation and Development		
Project Location	St. Tammany Parish, LA	Owner's Project Manager	Carl Hultgren, PLS, CH		
Owner's Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 70802; 225.379-1723; carl.hultgren@la.gov				
Services Commenced by This Firm	03/14	Total Consultant Contract Cost ($1,000's)	$35		
Services Completed by This Firm	06/14	Cost of Consultant Services Provided by This Firm ($1,000's)	$35		

The old Leeville Bridge, south east of the town of Leeville, was removed when the elevated portions of LA 1 (Gateway to the Gulf Expressway) were constructed. One pier in the middle of Bayou Lafourche still remains and is not demolished to the Coast Guard's desired elevation for safe passage in the waterway. TBS was tasked with collecting hydrographic data and verifying control monuments at the site to determine a final elevation of the remaining structure. This would resolve if the contractor would need to return to the site and continue taking the structure down to the desired elevation.

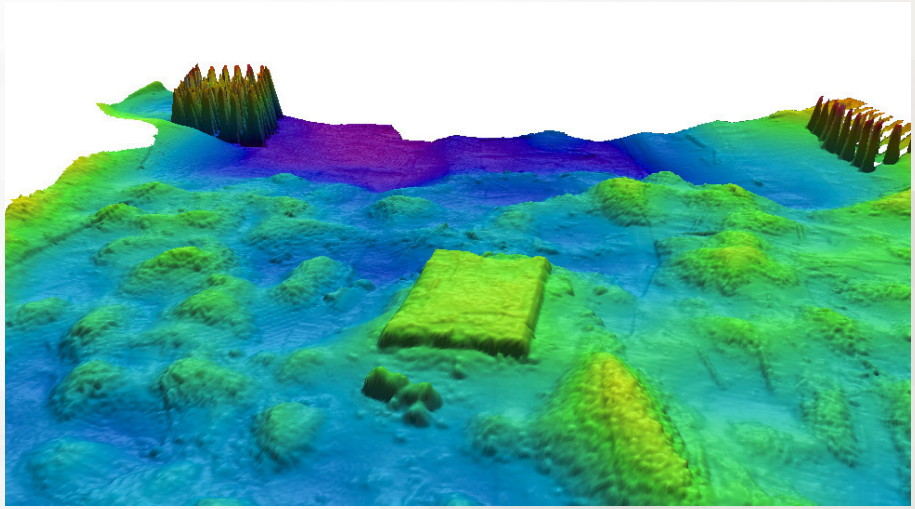
Land based survey crews collected static observations on the monuments used in the original survey for comparison and use in the hydrographic surveys to follow. Once complete TBS performed a hydrographic survey utilizing side scan sonar images and multi-beam units to capture point data on the structure and surrounding areas. Both were tied to the monumentation with RTK to collect the data. After processing with HYPACK and Microstation, a colorized surface showing elevation data and cross sections of critical locations were developed for DOTD to show the remaining structure was not demolished to the desired elevation.

TBS was asked to repeat the survey a second time in order to verify the results. The same means and methods were utilized as well as the addition of conventional soundings performed to verify the electronic methods. All results were within acceptable variances and confirmed the results of the first survey.

Team Members: Rene Hebert, PLS, PMP

Relevance to DOTD

- Complex Signature Bridges
- Hydrographic Survey



Firm Name	**GOTECH, Inc.**		Past Performance Evaluation Discipline(s)	CE&I/OV & Survey	
Project Name	**I-12 Widening Design / Build**		Firm Responsibility	Subconsultant	
Project Number	454-01-0047 & 454-02-0025	Owner's Name	Louisiana Department of Transportation and Development		
Project Location	East Baton Rouge & Livingston Parishes, LA	Owner's Project Manager	Mark Chenevert / Jeff Burst		
Owner's Address, Phone, Email	1201 Capitol Access Road, Room 405-E, Baton Rouge, LA 70802-4438, 225-379-1591, mark.chenevert@la.gov				
Services Commenced by This Firm	02/09	Total Consultant Contract Cost ($1,000's)	N/A		
Services Completed by This Firm	08/12	Cost of Consultant Services Provided by This Firm ($1,000's)	$2,950		

GOTECH provided surveying, utility coordination, and construction inspection. For the I-12 Widening Project, GOTECH provided inspections services during the construction phase of the project. GOTECH provided a certified structural inspector, concrete paving inspection, coordinated the utility relocation work, prepared daily reports, witnessed testing of cylinder strength for early breaks to allow traffic to roll as soon as they obtained minimum strength, monitoring the construction of the roadway bridges and overpasses.

Survey work included the establishment of primary vertical and horizontal control within the project limits that will facilitate construction layout, and any surveying that is required to complete the design phase of the project.

The I-12 widening project consisted of expanding the interstate roadway to three travel lanes in each direction for a distance of approximately nine miles. The project extended from the O'Neal Lane intersection in East Baton Rouge Parish to the Walker exit in Livingston Parish. GOTECH was a Sub-Consultant to James Construction Group.

Team Members: Rhaoul Guillaume, Sr., P.E., Bruce Dyson, P.E., P.L.S.

Relevance to DOTD

- Surveying

Firm Name	**Vectura Consulting Services, LLC**		Past Performance Evaluation Discipline(s)	Traffic	
Project Name	**I-12: US 61 Bridges Girder Repairs**		Firm Responsibility	Sub	
Project Number	H.014591.5	Owner's Name	DOTD		
Project Location	Baton Rouge, LA	Owner's Project Manager	Carl Gaudry		
Owner's Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1075, Carl.Gaudry@la.gov				
Services Commenced by This Firm	04/23	Total Consultant Contract Cost ($1,000's)	N/A		
Services Completed by This Firm	10/23	Cost of Consultant Services Provided by This Firm ($1,000's)	$27.633		

Vectura performed a Level 2 Traffic Management Plan (TMP) for the construction of ITS equipment along I-10. The plan included the following activities:

- safety strategy that included a CAT Scan,
- LOS determination utilizing Citrix data,
- lane closure recommendations based on a queue analysis,
- cost estimate,
- and public information strategies.

Relevance to DOTD

- Traffic Management Plan

Team Members: Laurence Lambert

Section 18

DelDOT & US Army Corps of Engineers, Senator William V. Roth, Jr. Bridge In-Depth Biennial Inspections, Philadelphia District

AECOM performed in-depth biennial inspections of this signature 4,650-foot cable stay bridge supporting DE SR 1 over the Chesapeake and Delaware Canal. The 27-span precast post-tensioned segmental concrete structure features a 750-foot long cable stay main span.

The superstructure is comprised of twin single cell concrete trapezoidal box girders, acting independently on the approaches and through delta frames, as a single unit in the main span.

The AECOM Team brings significant complex bridge inspection experience to DOTD from our current inspection contracts nationwide and our previous DOTD complex bridge inspection contract to develop a project approach specifically tailored to meet DOTD's Operations Maintenance and Inspection Division's needs. This depth of complex bridge inspection experience includes numerous long span steel truss, tied arch, movable, suspension, and cable stay bridge structures and serves as the foundation for our project approach. This approach is further personalized to the DOTD complex bridge inventory based upon our experience with the DOTD's complex bridge inventory and our discussions with DOTD Operations Division staff and includes the following:

- Developing a project-specific inspection approach tailored to DOTD's bridge inventory which include moveable, cable-stayed and other complex structures
- Confirming detailed inspections to address DOTD's active bridge maintenance issues including fatigue cracking of over-restraint conditions; damaged/deteriorated finger-joint expansion systems; and recording/ monitoring bridge movements at critical structures, inspection and testing at butt-welded locations of bridges with T1 steel, etc.
- Providing a "fresh set of eyes" to confirm and access previous bridge inspection conditions and subsequent findings
- Submitting detailed bridge inspection reports that follows NBIS and SNBI criteria and satisfy DOTD Bridge Inspection Manual requirements

AECOM's broad resume of bridge inspection and load rating services spans 45 states, Puerto Rico and Canada. We are a team solely dedicated to only work on inspection and load rating projects. We have assembled this team of specialists because we understand the unique demands associated with NBIS bridge inspection services and believe that a full-time commitment to these requirements is a necessity to delivering the project goals. We pride ourselves on having a client-driven approach and strive to understand the individual needs of our clients and to deliver the highest quality services to meet those needs.

LIST OF DOTD IN-DEPTH COMPLEX BRIDGE INSPECTIONS (YEAR INSPECTED):

- Gramercy Bridge (2013)
- US 190 EB and WB Structures over the Atchafalaya River (2014)
- I-210 Lake Charles Bridge (2014)
- Louisa Bridge (2015)
- Vicksburg Bridge (2015)
- Mississippi River Gulf Outlet Bridge (2015)
- Miller's Bluff Bridge (2016)
- Greater New Orleans Bridge (2016)
- LA 182 Morgan City Bridge (2017)
- LA 315 Dularge Bridge (2017)

AECOM's technical strength comes from a large collection of professionals and bridge experts across our network that are available to provide the expertise, knowledge and consultation. The benefit to the DOTD is that you have access to the expert services and experience of the AECOM Team through the service from our local project team.

Our previous assignments for DOTD have helped us to develop a thorough knowledge and familiarity of DOTD's procedures and facilities for the execution of assigned task. This enables our team to efficiently deliver the inspection reports as outlined in the scope of work. By partnering and maintaining open communications with the DOTD team and local district staff, we'll endeavor to safely deliver these inspections, thoroughly completing the inspections while minimizing traffic disruptions and providing safe traffic to the motoring public.

PROJECT APPROACH

The inspection of the complex bridges in the DOTD inventory requires proper planning that will take into consideration each bridge's size, design complexity, the amount of traffic carried and the regional importance as a critical asset. AECOM's attention to detail from this planning phase through delivery will help us meet project schedule, maximize efficiency of the fieldwork, and improve safety so we can deliver clear and comprehensive inspection reports. The following paragraphs outline and summarize our team's approach to the bridge inspection requirements.

Project Management: AECOM's approach to Project Management emphasizes our understanding of the needs of DOTD, a commitment to quality bridge inspections and the experience and strength of AECOM's resources. After selection, Brett will meet with the DOTD PM, Ms. Stephanie Doolittle, to review the scope of services for each bridge, work with the team to develop the technical and cost proposals and coordinate the submittal of the task order document.

AECOM'S KEY TO SUCCESS

A successfully delivered project is based upon the leadership of **AECOM's Project Manager, Brett Canimore**. Our approach is founded on our previous DOTD bridge inspection IDIQ which resulted in the successful delivery of all assigned work.

Mobilization & Planning: Upon receiving NTP, AECOM will immediately initiate the work and develop a task specific work plan that outlines the following:

- **describes the scope of services**
- **defines a schedule covering the sequencing of the work**
- **integrates a staffing plan that will ensure the best match and use of our highly qualified professionals**
- **assigns subconsultant team responsibilities from a strong pool of subconsultants, each of which has sucessfully teamed with AECOM on past projects**
- **client, team and stakeholder contact information, and**
- **communicates safety protocols**

PROJECT KICK-OFF

AECOM will hold kick-off meetings with both the project team and DOTD staff to communicate key inspection challenges, roles and responsibilities, schedule and safety concerns.

Additional planning activities include railroad and US Coast Guard coordination, confirming necessary travel arrangements, preparing inspection forms and sketches, and scheduling project kick-off.

After our team reviews of all pertinent design and inspection information including nonredundant steel tension member (NSTM) inspection procedures, we will confirm our inspection procedure, access plan and schedule and submit to the DOTD for approval.

Inspection Access Plan: AECOM will develop an inspection access plan to inspect the structures thoroughly while maximizing the use of equipment, traffic control services, and safety boat protection. The AECOM Team is equipped with the necessary basic inspection equipment to execute and document in-depth, hands-on inspections including rope access gear, UAS, and NDT equipment.

AECOM ADVANTAGE

We compliment the use of traditional inspection access equipment with our SPRAT certified rope access team and the use of new and emerging technologies with inspection access with Unmanned Aerial Systems (UAS) to assist our staff with the inspection of complex bridges. Our choice for implementation of a specific inspection access method will only be applied when they provide the best solution for a specific assignment. We have safely used SPRAT on several of our previous DOTD bridge inspections including **Greater New Orleans Bridge #1 and the I-210 Lake Charles Bridges.**

Our planned traffic control operations and procedures will identify a traffic control plan coordinated and approved by DOTD District staff. We are committed to meeting the DOTD's on-going commitment to work zone safety and the required work zone training requirements in advance of contract execution. **All traffic control will be coordinated through DOTD, and any required traffic control plans will be developed by our team that includes the staff of our subconsultant, Vectura Consulting Services, and will be led by Jonathan McDowell, PE, who is currently certified as ATSSA Traffic Control Supervisor.** Our traffic control vendor, CEC, also has their team of traffic control professionals trained as Traffic Control Supervisors. In addition, several members of the on-site bridge inspection team will have the required work zone training through ATSSA.

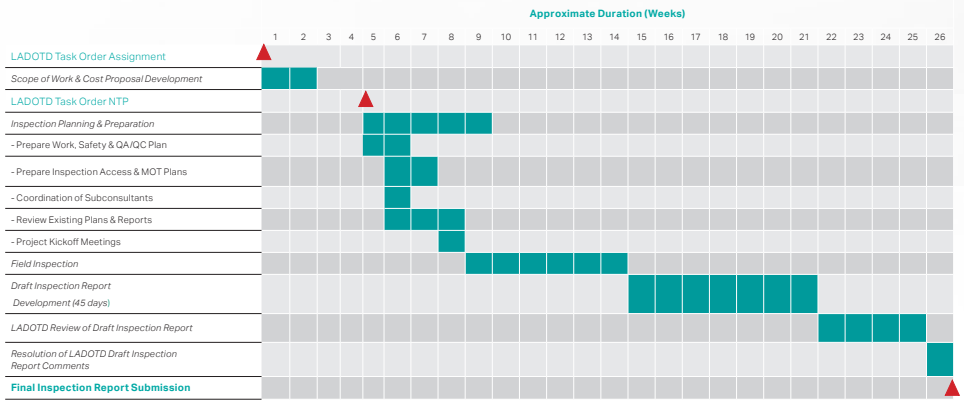
Safety: We understand that bridge inspections may involve risk even when all the proper preventive steps are taken before going to the field and have developed a Project Specific Safety Plan that addresses applicable safety concerns including personal protective equipment, 100% fall protection, confined space entry, safe inspection techniques, safe practices within traffic lane closures, and local emergency services. All inspection operations will be conducted in accordance with the applicable OSHA safety standards. Our on-site Lead Bridge Inspection Team Leader will direct a daily "toolbox" safety meeting wit and will include daily tailgate meetings that reinforce AECOM's safety program and to mitigate newly identified risks.

CONFINED SPACE ENTRY

AECOM has routinely conducted the internal hands-on inspection of steel box girders as required for NSTM following confined space entry procedures and requirements. One example of this effort included in the first ever internal inspection of the Newport Viaduct steel tub girders for DelDOT in 2009 and resulted in the discovery of over 1,000 fatigue cracks.

Schedule: The schedule below outlines an in-depth complex bridge inspection assignment and indicates the critical tasks to be performed and key links between those tasks. This schedule includes a compiliation of the key elements as developed during our previous DOTD inspection assignments that resulted in the successful delivery of ten complex bridge inspection

assignments. The schedule is monitored daily during the field inspection to verify that the work is progressing as planned. If deviations occur, this gives the team adequate time to adjust activities and resources to maintain the projected completion date.



Field Inspection: All inspection work will conform to the current DOTD Bridge Inspection Manual, FHWA and AASHTO criteria. The inspection will consist of a close visual hands-on inspection of all main components of the superstructure and substructure units. Our inspectors verify and document the locations and extent of damage or deterioration, such as corrosion, section loss, cracks, fractures, deformations, and collision damage. These include typical critical details associated with finger joints and fatigue cracking due to out-of-plane bending. We will detail and document the location of retrofits, including welded and bolted repair plates and measure and section loss using rulers, calipers, or ultrasonic thickness gages. Inspectors will examine connections, including gusset plates, for missing or loose fasteners, pack rust between plates, corrosion, and cracks and develop sketches and D-meter readings, if required, to record areas that exhibit significant section loss. Sketches will be developed, and D-meter readings will be recorded for areas that exhibit significant section loss. Photographs showing areas of significant distress (CS3 and CS4) will be taken to substantiate the condition ratings, as well as photographs of typical conditions and general bridge views. AECOM will update element level condition states for the members inspected and will describe the defects for condition states coded greater than CS1.

NSTM Inspections: Our team will leverage our extensive NTSM experience and our Team's ASNT Level II and III staff to perform any required ultrasonic and magnetic particle testing, including dye penetrant testing, as required, to verify the existence and extent of a suspected crack.

Underwater Inspections: AECOM has included, **CONSOR Engineers**, on our team to provide NBIS underwater inspection and imaging that may be required for the submerged elements. **We have all required NBIS and diver (ADCI) qualifications, including substantial experience with DOTD bridges**, in assessing and investigating the underwater infrastructure.

Movable Bridges: The electrical and mechanical inspection of the movable bridges will follow the DOTD's inspection manual, Appendix A-17, and the AASHTO Movable Bridge Manual. All operational checks and tests of the DOTD Agency Defined Elements (ADE) will be inspected and evaluated to confirm existing conditions and potential deficiencies. **AECOM has successfully performed the in-depth structural, mechanical, and electrical inspection per the DOTD requirements and AASHTO guidelines of both the Dularge and Louisa Bridges under our previous DOTD contract.** In addition, we bring the team of professionals that were awarded the DOTD contract for movable bridges – Contract 4400021513.

Emergency and Critical Findings: If any critical findings are discovered during our inspections, our inspectors will immediately contact project leadership to discuss the finding while the inspection crew is on-site. This allows for DOTD to plan a site visit, to view the deficiency while access is still available. A written notification will follow and include additional photos, detailed sketches, the exact location, and recommendations for repair. **These procedures were effectively implemented during our inspection of the US 190 WB Bridge to communicate the fatigue cracking in the floorbeams at the connection to the truss members.**

Inspection Report Development: Upon completion of the inspection, the AECOM Team will develop the bridge inspection report as required by the scope of work, DOTD policies and the FHWA. All bridge inspection SI&A data will be entered in the DOTD asset management software, ***Inspect X***, following the DOTD Recording and Coding Guide. The report will include an executive summary that will concisely describe the scope, results, and repair recommendations of the bridge inspection. Photographs will include areas of distress, typical conditions, and general site conditions (portal views, elevation views, etc.). Supporting plans, such as the fracture critical control plan and location of elements inspected, are anticipated to be in an appendix as reference. Recommendations for maintenance and repair will be summarized in a separate section and will have an assigned priority and

AECOM ADVANTAGE

AECOM is currently utilizing ***Inspect X*** with NDDOT to collect data including, NBI, element, **SNBI** condition ratings as well as scour and channel specific information.

quantity so that the DOTD can prioritize the need for repair. If required, these recommendations will also clarify the type of work required and the necessary staff needed to address the issue.

During the course of this 5-year In-Depth Bridge Inspection Contract, the FHWA will be transitioning the reporting of National Bridge Inventory (NBI) data from the current Coding Guide to the Specifications for the National Bridge Inventory (SNBI), AECOM will follow the DOTD's direction to update the inspection reporting to conform during the transition period and ultimately with the full compliance needed to report with SNBI. **We are currently providing SNBI condition ratings for NDDOT's culverts that are on a 48-month inspection cycle.**

AECOM DELIVERS QUALITY

Under our previous complex bridge inspection contract, we received an average score of 4.5 out of 5 on our seven consultant performance evaluations.

Quality Assurance / Quality Control (QA/QC): AECOM understands that it is our responsibility to provide quality bridge inspAECOM understands that it is our responsibility to provide quality bridge inspection services for the DOTD on this assignment and we pledge to continue to meet the high standards that we have previously established with the DOTD. AECOM offers DOTD a proven Quality Management System that is certified to the internationally renowned ISO 9001:2015 standard yet is sufficiently flexible to address the specific requirements of this project. We will submit our QA/QC plan to Stephanie within 10 business days of award notification. This plan includes quality leadership by our Project Quality Representative (PQR). Both the PM and PQR will manage and oversee all work assigned to our team and subconsultant partners, confirm quality checks have been performed, and verify the work meets that DOTD requirements for bridge inspections.

Load Rating Analysis: Our team has current and relevant experience performing load rating analyses using AASHTOware Bridge Rating Software (BrR), as well as other industry approved software including advanced finite element software. **This includes our current DOTD IDIQ for Bridge Load Rating Services whereas a subconsultant we are analyzing 140 bridges throughout LA, including superstructure and substructure analysis; developed proprietary calculation tools for influence-based analysis of bent caps and timber piles; provided recommendations for mitigation and repair of deficient structures.**

Bridge Instrumentation and Testing: AECOM has added KTA-Tator to our team to provide has the required non-destructive testing and SSPC protective coating qualifications and capabilities needed to meet the testing required in the DOTD in-depth bridge inspection scope of work. This includes ultrasonic testing of pins and pin assemblies. Our team of experts is experienced in evaluating bridge structures through non-destructive evaluation (NDE), load testing, remote wireless monitoring/ measurements, and comprehensive finite element analysis/modeling (FEA/ FEM).

Bridge Rehabilitation Design and Construction Support Services: The AECOM Team has the available expertise and resources to provide surveying, bridge rehabilitation design, shop drawing review, and construction support services for any repair of critical or high priority deficiencies identified during an assigned bridge inspection. This experience has taught us the importance of continuity between inspection, design, and construction staffing. **This is best illustrated during the resetting of the truss bearings on the US 190 WB Krotz Springs Bridge based on the findings of our 2014 in-depth inspection. The AECOM Team provided design services, full plan set, shop drawing review, and construction support services to reset the over-extended truss bearings. All bridge plan submissions will be coordinated through the DOTD's ProjectWise application.**

AECOM ADVANTAGE

AECOM provided GPR and infrared technologies on DOTD's 18.2-mile, I-10 WB Bridge over the Atchafalaya Basin after our inspectors had identified deck concerns.

Summary: AECOM is fully aware of the importance of this project to the DOTD and is totally committed to providing the personnel and technical resources to see that the project is completed to the DOTD's total satisfaction.

2017 Inspection of the Morgan City Bridge

2016 Inspection of the Greater New Orleans Bridge #1

Section 19

I-110 Bascule Bridge over Back Bay of Biloxi, Biloxi, Mississippi

AECOM performed an in-depth inspection, preliminary, and final design of emergency repairs for this double-leaf bascule bridge carrying four lanes of I-110 traffic. Scope of work also included a project-specific movable bridge inspection manual that conforms to Metric 19 of the FHWA NBIS oversight program

Delivering a better world

19. Workload:

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
AECOM	Bridge	4400021593, H.009859.5	Bridge Load Rating	$2,128,352
	Planning	4400004128, H.004273.5	I-49 Connector	$554,056
	Traffic			$34,207
	Road			$14,923
	Bridge			$161,148
	Environmental			$156,131
	Bridge	4400023921, H.011993.5	LA 10 Bayou Carron	$1,383
	Bridge	4400023921, H.001970.5	LA 561 Boeuf River Bridge	$2,092
consor	Bridge	4400019122, H.009730.5	Statewide Underwater Bridge Inspections – Task Order 1	$259,031
	Bridge	4400019122, H.009730.5	Statewide Underwater Bridge Inspections – Task Order 2	$605,245
KTA	Bridge	Contract No. 4400021514 State Project Nos. H.012003, H.011995, H.010007, H.012568, and H.012000	Contract 2 for Moveable Bridges (5)	No active task orders
	Bridge	Contract No. 4400023511	IDIQ Contract for Bridge Inspection Services	$2,493 (balance remaining)

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
HUVAL & ASSOCIATES, INC. Consulting Engineers	Bridge	Co. #:4400005673 S.P. H. 011235	I-49 South @ Verot School Road Lafayette Parish – Design Phase Supp. #3,4,5	$43,427
	Bridge	Co. #:4400010428 S.P. H.004774.5	Kansas Lane-Garrett Road Connector – Supp #1	$30,564
	Bridge	Co. #: Not issued S.P. H.004791	LA 23: Belle Chasse Bridge and Tunnel (HBI)	$489,262
	Bridge	Co. #:4400017421 S.P. H.001352.5	Comite Diversion Bridge at LA 67 – Construction Services Comite Diversion Bridge at LA 19 & LA 19 Railroad – Const. Services	$ 77,496
	Bridge	Co. #:4400018646 S.P. H.004100	I-10 CMAR – Segment 1 Design	$1,874,718
	Bridge	Co. #:440017262 S.P.H.012545.5	LA 454: Wiggins Bayou Bridge	$120,918
	Bridge	Co. #:4400017262 S.P.H.014646.5	I-20: US 165 East of Garret Road	$33,987
	Bridge	Co. #:4400017262 S.P.H.014052.5	LA 151: Construction Services	$38,473
	Bridge	Co. #:4400017262 S.P.H.002868.6	I-49 South: Ambassador Caffery Interchange	$24,106
	Bridge	Co. #:4400017262 S.P.H.012027.5	I-20: UPRR Overpass	$477,661
	Bridge	Co.#. 4400017262 S.P.H. 014747.5	Southern University Ravine Mitigation	$282,386
	Bridge	Co.#. 4400017262 S.P.H. 011808.6	LA 10: Palmetto Company Canal BR	$27,915
	Bridge	Co. #. Not Assigned S.P.H. 001779	Jimmie Davis Bridge (LA 511 – Design Build Project)	$2,794,413
	Bridge	Co.#. 4400023923 S.P.H. 013821.5	LA 6: Youngs Bayou	$22,589
	Bridge	Co.#. 4400023923 S.P.H. 007300.5	Nutland Road Embankment	$18,483
	Bridge	Co. #:4400017262 S.P.H.015114.5	US 90 Over Bayou Ramos	$2,939

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
GOTECH	CE&I/OV	Contract No. 4400017006; Task Order No. H.011670	I-10 / Loyola Interchange Improvements (Jefferson Parish)	$121,806
	CE&I/OV	Contract No. 4400019550 SPN: H.001234	LA 1: Port Allen Canal Bridge Replacement Phase 1 (HBI) (CE&I) Route LA 1 (West Baton Rouge Parish)	$348,287
	CE&I/OV	Contract No. 4400023074 Task Order No. H.012465	IDIQ Contract for Construction, Engineering & Inspection & Staff Augmentation - Pecan Island Rd - District 61 (Hammond)	$58,489
	CE&I/OV	Contract No. 4400023074 Task Order No. H.014694.6	IDIQ Contract for Construction, Engineering & Inspection & Staff Augmentation - Pecan Island Rd - District 61 (Hammond)	$41,978
	CE&I/OV	Contract No. 4400023074 Task Order No. H.014930	IDIQ Contract for Construction, Engineering & Inspection & Staff Augmentation - Pecan Island Rd - District 61 (Hammond)	$21,449
	CE&I/OV	Contract No. 4400015488 Task Order No. H.006538.6	IDIQ CE&I Safe Routes to School Sidewalk (Lafayette Parish)	$67,145
	Survey	Contract No. 4400019870 Task Order No. H.013753.5	IDIQ Design of Safety Projects Statewide w/ Majority of Work in Districts 03, 07 & 08 LA 428: Gen DeGaulle-Old Behrman (Orleans Parish)	$47,232
	CE&I/OV	Contract No. 4400021740 SPN: H.004100.6	I-10: LA 415 to Essen Ln on I-10 & I-12 (West & East Baton Rouge Parish)	$1,546,663
	Survey	Contract No. 4400025040 SPN: H.015342	Infrastructure Investment Off-System Bridge Program, District 61	$15,436
	CE&I/OV	SPN: H.010673 Control Section No. 283-09	US90Z: Harvey Canal Tunnel Rehabilitation Route US 90-Z Federal Aid Project (Jefferson Parish)	$234,522

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
T. BAKER SMITH A CENTURY OF SOLUTIONS	Survey	4400025027/H.015339	Lakeside Loop Over Yocum Creek	$37,057
	Survey	4400025027/H.015442	Bobby Gaspard Crossing Over Bayou Glaise	$15,580
	Survey	4400025027/H.015443	Bordelon Crossing Over Bayou Rouge	$22,727
	Survey	4400025027/H.015444	Shady Grove Road Over Middle Creek	$36,749
	Survey	4400025027/H.015445	Harrisonburg Road Over Nantaches Creek	$16,728
	Survey	4400025027/H.015447	Cutts Road Over Hemphill Creek	$20,873
	Survey	4400025027/H.015448	Philadelphia Road Over Haines Creek	$13,781
	Survey	4400025027/H.015449	Grand Staff Road Over Creek	$22,811
VECTURA CONSULTING SERVICES, LLC	Traffic	4400017293, H.010616	I-20: LA 544 Overpass Replacement	$74,429
	Traffic	4400005484, H.005168.2	New Orleans Rail Gateway Avondale EA	$71,607
	CE&I	4400020018, H.007160	EBR Computerized Traffic Signal, Ph VB	$78,510
	Traffic	H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	$14,740
	Traffic	4400021519, H.012030.5	KCS RR Overpasses HBI	$572
	Traffic	4400023075, H.013522	S. Lewis Street Widening	$7,499
	ITS	4400016364, H.015136.4	Northshore Regional ITS Architecture Update	$11,421
	ITS	4400017922, H.012845.1	C/AV Team and Working Group Support	$9,482
	ITS	4400017922, H.014515.5	SEA ATMS and 511 System	$12,868
	ITS	44000020058, H.011507.1	Monroe Phase 3 SEA	$29,217
	Traffic	4400018271, H.014746.5	LA 383 Stage 0 Corridor Study	$20,146

(Add rows as needed) DO NOT SUM

* The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify). If a firm has more than one past performance evaluation discipline for any single project, the firm can use multiple rows to express the remaining unpaid balance per evaluation discipline.

** Round to the nearest dollar. Do not round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. NOTE: ALL FIRMS MUST BE REPRESENTED IN THIS TABLE. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.

Section 20

ADOT, Glen Canyon Dam Bridge Inspection, Page, AZ.

AECOM provided in-depth and fracture critical bridge inspection services for the Arizona Department of Transportation (ADOT). Bridge inspections included a deck arch, through arch, deck truss, and steel multi-beams structure types. Rope access and under-bridge inspection vehicles were used to inspect the 1,271-ft, Glen Canyon Dam Bridge in Page, AZ. This structure sits over 700-ft above the Colorado River.

20. Certifications/Licenses:

If the advertisement requires submission of licenses and/or certificates, include them here. Otherwise, leave this section blank.

AECOM

CERTIFICATIONS

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jonathan G McDowell

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

3/19/2023 to 3/19/2027

Training Valid Through

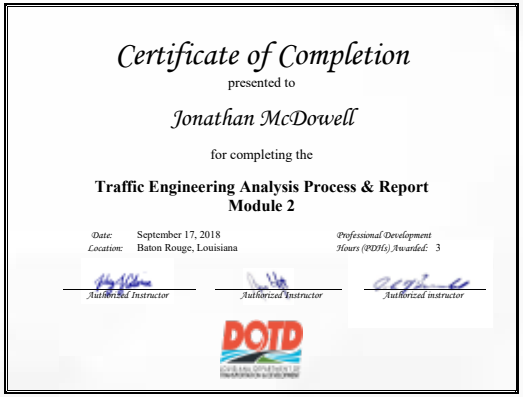
Vice President of Education and Technical Services

New Orleans, LA

Location

President, CEO

ATSSA



Certificate of Completion

presented to

Jonathan McDowell

for completing the

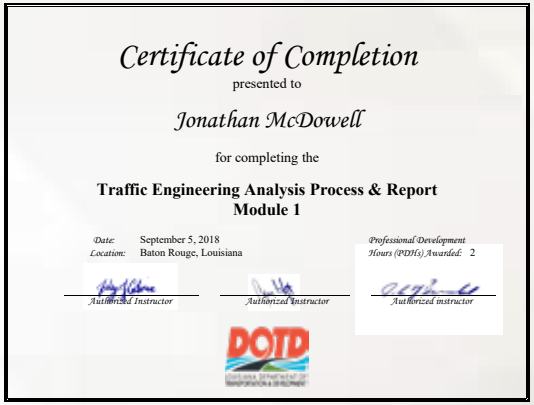
Traffic Engineering Analysis Process & Report
Module 2

Date: September 17, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD



Certificate of Completion

presented to

Jonathan McDowell

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: September 5, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD

U.S. Department Of Transportation Federal Highway Administration

National Highway Institute

Certificate of Training

Jonathan McDowell

has participated in

NHI Course No. 142005 –
NEPA and Transportation Decision Making

hosted by

LA DOTD/LTRC

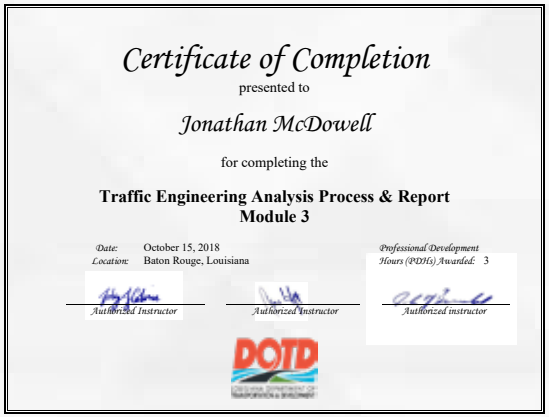
Date: January 10-12, 2012
Location: Baton Rouge, LA

Hours of Instruction: 18

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute



Certificate of Completion

presented to

Jonathan McDowell

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD

Certificate of Professional Development Hours

presented to

Jonathan McDowell

for attending the

Highway Safety Manual Workshop

12 PDHs

on

May 2-3, 2013 Baton Rouge, Louisiana

Authorized

Research, Technology Transfer, Education and Training

DOTD

CERTIFICATIONS

pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Brett Canimore

On 12/8/2022 successfully completed the

Bridge Inspection Refresher Course

Sponsored by the Highway Administration Deputate

Presented by: Michael Baker International
With the score of: 84.44%
Continuing Education Credits: 20 PDHs

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc

Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
CERTIFICATE OF TRAINING

BRETT E. CANIMORE

has satisfactorily completed the 78 hour Basic Course on Bridge Safety Inspection Training and meets the Department's requirements for certification as "Certified Bridge Safety Inspector".

Chief, Bridge Engineer, M.C. Patel

Chief, Training Division,

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NHI NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Brett Canimore

has participated in

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

hosted by

New Jersey Department of Transportation

Date: October 2-5, 2018
Location: Trenton, NJ

Hours of Instruction: 25

Instructor

Local Coordinator

Instructor

Valerie Briggs, Director
National Highway Institute

CERTIFICATIONS

National Highway Institute

Certificate of Training

Alexandra C. Gotta

has participated in

FWHA – NHI – 130078 Fracture Critical Inspection Techniques for Steel Bridges

hosted by

PKB Engineering Corp.

Date: *July 8-11, 2014*

Location: *Lyndhurst, NJ*

Hours of Instruction: *21 Hours*

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Alexandra Gotta

On this date, 9/28/2023, has successfully completed

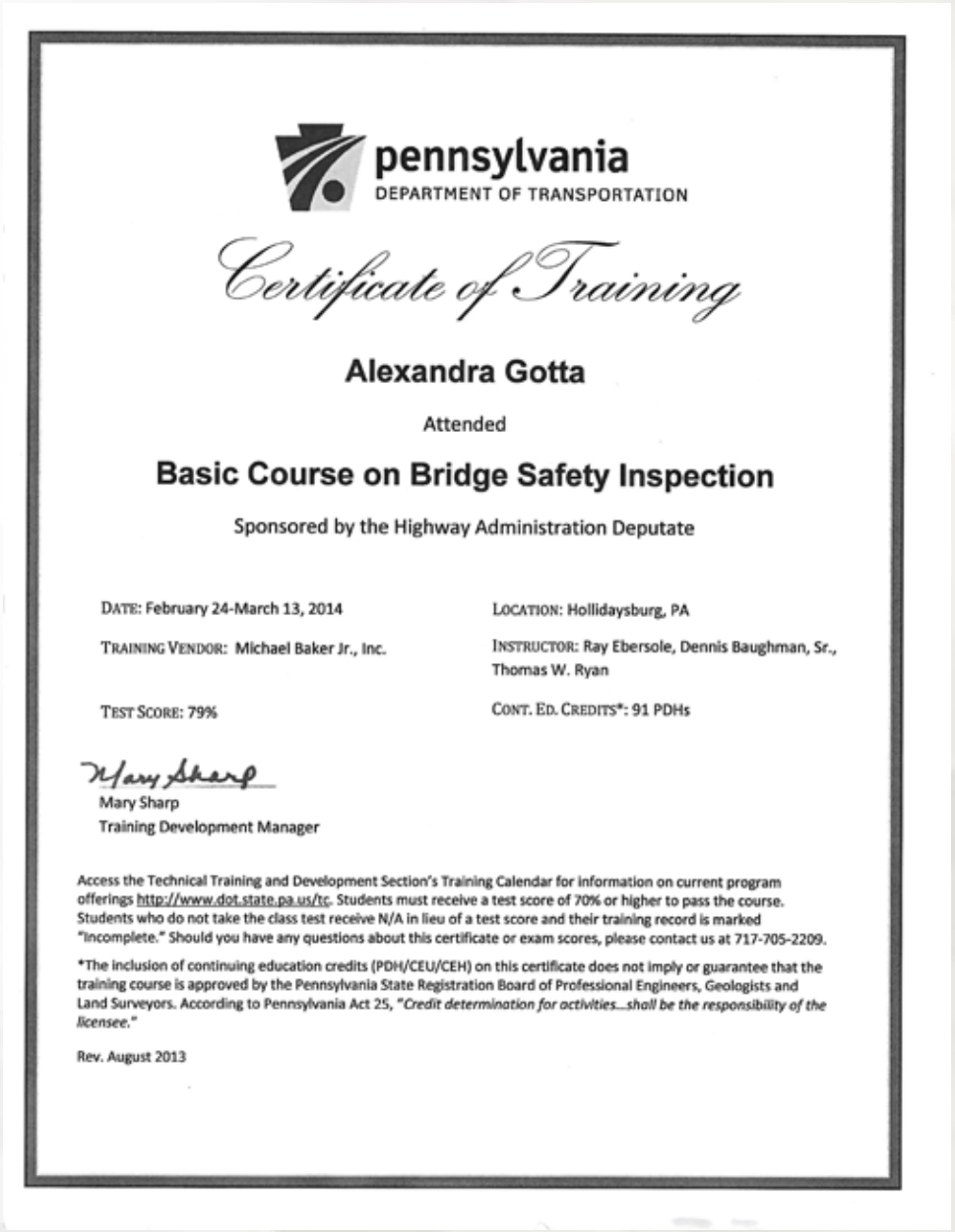
Bridge Inspection Refresher Course

Sponsored by the Highway Administration Deputate

Presented by: Pichura, Michael, Michael Baker International
Grade: 85%
Continuing Education Credits: 20 PDHs

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc



pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Alexandra Gotta

Attended

Basic Course on Bridge Safety Inspection

Sponsored by the Highway Administration Deputate

DATE: February 24-March 13, 2014

LOCATION: Hollidaysburg, PA

TRAINING VENDOR: Michael Baker Jr., Inc.

INSTRUCTOR: Ray Ebersole, Dennis Baughman, Sr., Thomas W. Ryan

TEST SCORE: 79%

CONT. ED. CREDITS*: 91 PDHs

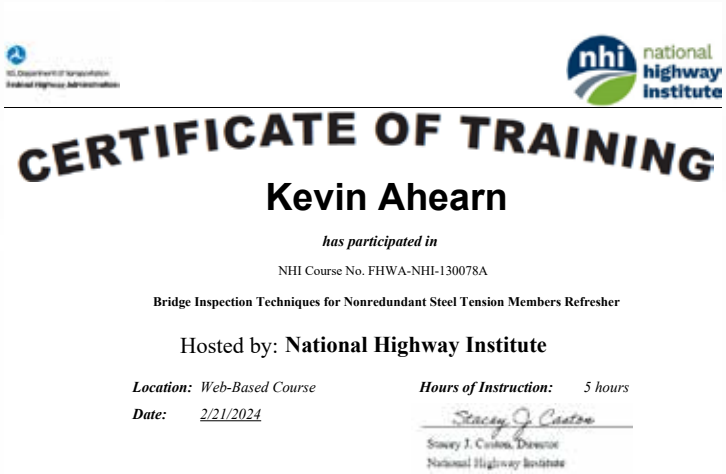
Mary Sharp
Training Development Manager

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc. Students must receive a test score of 70% or higher to pass the course. Students who do not take the class test receive N/A in lieu of a test score and their training record is marked "Incomplete." Should you have any questions about this certificate or exam scores, please contact us at 717-705-2209.

*The inclusion of continuing education credits (PDH/CEU/CEH) on this certificate does not imply or guarantee that the training course is approved by the Pennsylvania State Registration Board of Professional Engineers, Geologists and Land Surveyors. According to Pennsylvania Act 25, "*Credit determination for activities...shall be the responsibility of the licensee.*"

Rev. August 2013

CERTIFICATIONS



CERTIFICATE OF TRAINING

Kevin Ahearn

has participated in

NHI Course No. FHWA-NHI-130078A

Bridge Inspection Techniques for Nonredundant Steel Tension Members Refresher

Hosted by: **National Highway Institute**

Location: *Web-Based Course* ***Hours of Instruction:*** *5 hours*

Date: *2/21/2024*

Stacey J. Caston, Director
National Highway Institute

National Highway Institute

Certificate of Training

Kevin Ahearn

has participated in

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

hosted by

Boston Society of Civil Engineers Section/ASCE

Date: *December 01-12, 2014* ***Hours of Instruction:*** *67*
6.7 CEUs

Location: *Worcester, MA*

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

National Highway Institute

Certificate of Training

Kevin Ahearn

has participated in

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

hosted by

Boston Society of Civil Engineers Section/ASCE

Date: *November 29 - December 2, 2016* ***Hours of Instruction:*** 25

Location: *Worcester, MA*

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

National Highway Institute

Certificate of Training

Kevin Ahearn

has successfully completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Boston Society of Civil Engineers Section/ASCE

Date: *May 14-16, 2024* *Hours of Instruction:* 22

Location: *Worcester, MA*

Cailein MacDougall Digitally signed by Cailein MacDougall Date: 2024.06.10 16:31:27 -04'00'

Instructor

David Hoyne Digitally signed by David Hoyne Date: 2024.06.10 16:37:35 -04'00'

Instructor

Richard Keenan

Local Coordinator

Stacey Caston

Stacey Caston, Director
National Highway Institute

CERTIFICATIONS

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

David L. Raffensperger

has participated in

Fracture Critical Inspection Techniques
Steel Bridges
hosted by

New Jersey Department of Transportation

Location: Trenton, NJ
Date: April 26-29, 2005
Hours of instruction: 24

Instructor
Director, National Highway Institute
Federal Highway Administration

Coordinator
Director, Office of Professional and Corporate Development
Federal Highway Administration

pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

David Raffensperger

On 4/14/2022 successfully completed the

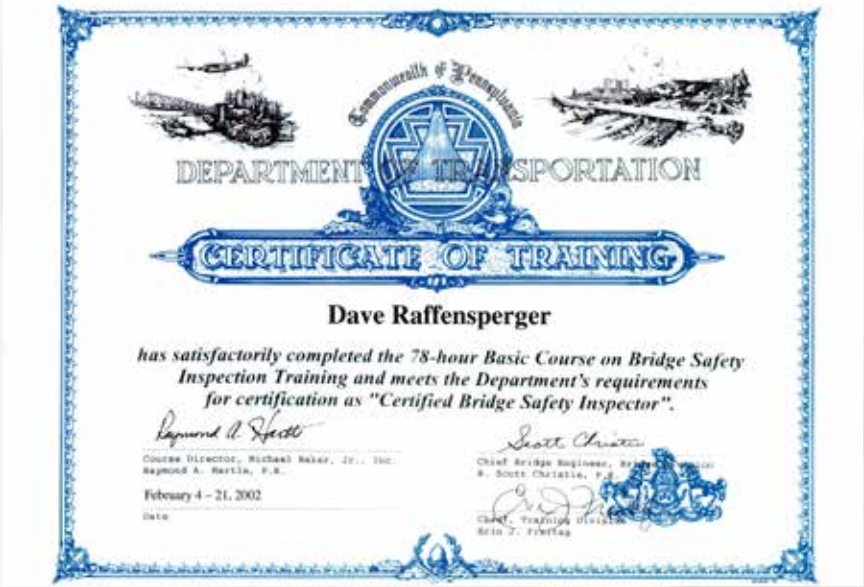
Bridge Inspection Refresher Course

Sponsored by the Highway Administration Deputate

Presented by: Michael Baker International
With the score of: 93.33%
Continuing Education Credits: 20 PDHs

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc



Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

CERTIFICATE OF TRAINING

Dave Raffensperger

has satisfactorily completed the 78-hour Basic Course on Bridge Safety Inspection Training and meets the Department's requirements for certification as "Certified Bridge Safety Inspector".

Course Director, Michael Baker, Jr., Inc.
Raymond A. Hartle, P.E.

February 4 – 21, 2002
Date

Chief Bridge Engineer, Retired
H. Scott Christie, P.E.

Chief, Training Division
Erin J. Fiedler

CERTIFICATIONS

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Gabriel Umholtz

has Successfully Completed

FHWA-NHI-130078 Bridge Inspection Techniques for NSTMs

hosted by

PKB Engineering Corporation

Date: July 23-25, 2024
Location: Secaucus, NJ

Hours of Instruction: 18

Instructor

Local Coordinator

Instructor

Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute

pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Gabriel Umholtz

On 2/17/2021 successfully completed the

PennDOTs Bridge Safety Inspector Certification

Sponsored by the Highway Administration Deputate

Presented by: Michael Baker International
With the score of: 82.5%
Continuing Education Credits: 96 PDHs

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc

pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Gabe Umholtz

On 1/12/2023 successfully completed the

Bridge Inspection Refresher Course

Sponsored by the Highway Administration Deputate

Presented by: Michael Baker International
With the score of: 91.11%
Continuing Education Credits: 20 PDHs

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc

CERTIFICATIONS

National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

Certificate of Training

Greg Bennett

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

MP Engineers, P.C.

Date: November 09-12, 2021
Location: Princeton, NJ

Hours of Instruction:25

Instructor

Local Coordinator Mahendra Patel, P.E.

Instructor

Thomas Harman, Director
National Highway Institute

pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Greg Bennett

On 1/12/2023 successfully completed the

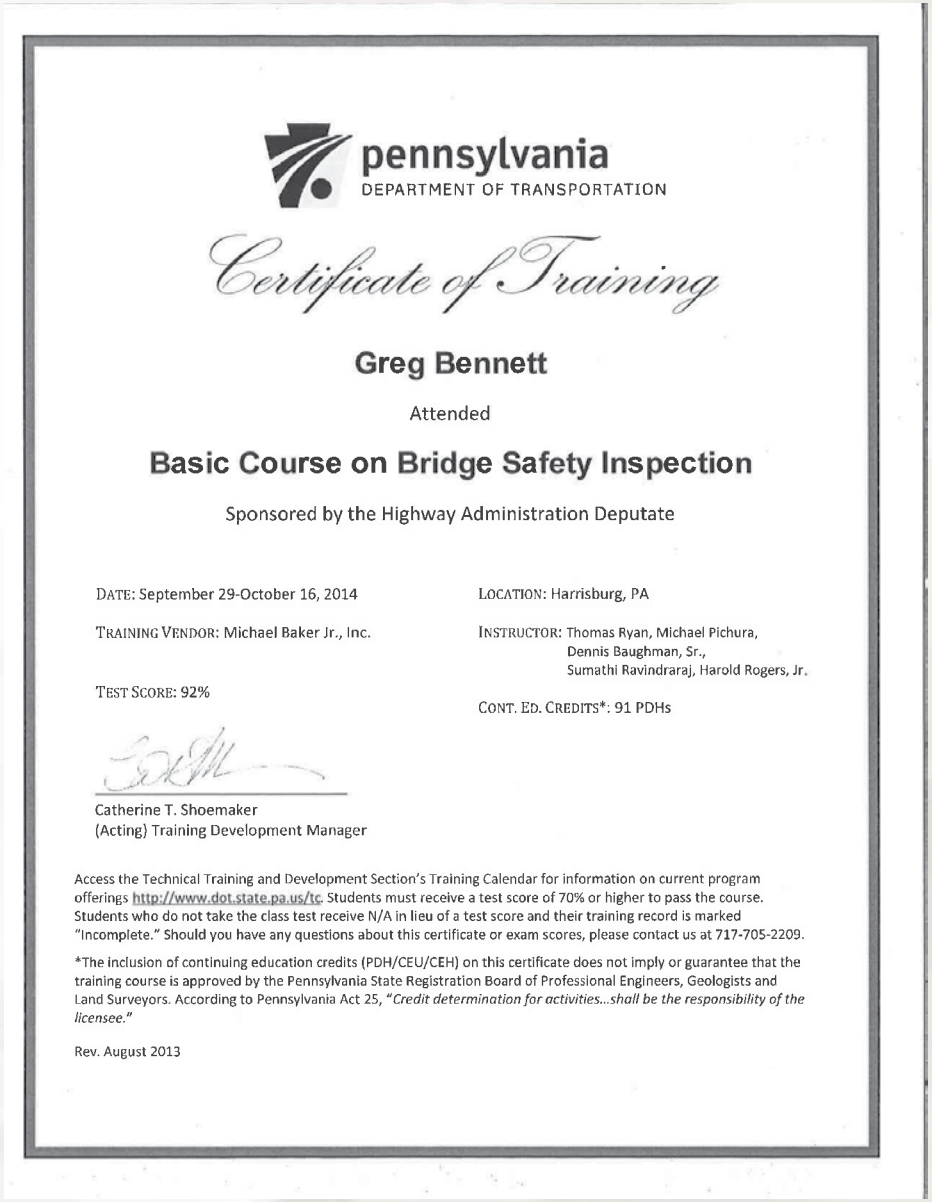
Bridge Inspection Refresher Course

Sponsored by the Highway Administration Deputate

Presented by: Michael Baker International
With the score of: 85.55%
Continuing Education Credits: 20 PDHs

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc



pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Greg Bennett

Attended

Basic Course on Bridge Safety Inspection

Sponsored by the Highway Administration Deputate

DATE: September 29-October 16, 2014

LOCATION: Harrisburg, PA

TRAINING VENDOR: Michael Baker Jr., Inc.

INSTRUCTOR: Thomas Ryan, Michael Pichura, Dennis Baughman, Sr., Sumathi Ravindraraj, Harold Rogers, Jr.

TEST SCORE: 92%

CONT. ED. CREDITS*: 91 PDHs

Catherine T. Shoemaker
(Acting) Training Development Manager

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc. Students must receive a test score of 70% or higher to pass the course. Students who do not take the class test receive N/A in lieu of a test score and their training record is marked "Incomplete." Should you have any questions about this certificate or exam scores, please contact us at 717-705-2209.

*The inclusion of continuing education credits (PDH/CEU/CEH) on this certificate does not imply or guarantee that the training course is approved by the Pennsylvania State Registration Board of Professional Engineers, Geologists and Land Surveyors. According to Pennsylvania Act 25, "*Credit determination for activities...shall be the responsibility of the licensee.*"

Rev. August 2013

CERTIFICATIONS

CERTIFICATIONS

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Henry Fix

has participated in

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

hosted by

Whitman, Requardt and Associates, LLP

Date: August 16 - 19, 2016
Location: Baltimore, Maryland

Hours of Instruction: 25

Instructor

Local Coordinator

Instructor

Valerie Briggs, Director
National Highway Institute

pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Henry Fix

On 12/8/2022 successfully completed the

Bridge Inspection Refresher Course

Sponsored by the Highway Administration Deputate

Presented by: Michael Baker International
With the score of: 92.22%
Continuing Education Credits: 20 PDHs

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 7/18/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Henry Jonathan Fix
756 Westwind Drive
Berwyn, Pennsylvania 19312

Cut Here

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Henry Jonathan Fix

License/Certificate Type - Number	Expiration Date
PE.0038224	03/31/2026

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

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CERTIFICATIONS


SPRAT

Rope Access Certification
Level 1

Brendan Kearns

SPRAT Certification # 2300423
Date of Birth: 16 SEP 1997

Certification Date: 24 FEB 2023
Expiration Date: 24 FEB 2026


The individual has successfully completed the requirements
in accordance with SPRAT standards and is certified as indicated.

Verify this certification at:

SPRAT Certification Verification System

SPRAT

Society of Professional Rope Access Technicians (SPRAT)
994 Old Eagle School Road, Suite 1019, Wayne, PA 19087
610-971-4580 I info@sprat.org I www.sprat.org


pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Brendan Kearns

On 11/9/2023 successfully completed the

Bridge Inspection Refresher Course

Sponsored by the Highway Administration Deputate

Presented by: Michael Baker International
With the score of: 86.25%
Continuing Education Credits: 20 PDHs

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc


pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Brendan Kearns

On 11/4/2021 successfully completed the

PennDOTs Bridge Safety Inspector Certification

Sponsored by the Highway Administration Deputate

Presented by: Michael Baker International
With the score of: 74.32%
Continuing Education Credits: 96 PDHs

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc

CERTIFICATIONS

pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Jason Mathers

On this date, 9/28/2023, has successfully completed

Bridge Inspection Refresher Course

Sponsored by the Highway Administration Deputate

Presented by: Pichura, Michael, Michael Baker International
Grade: 91.25%
Continuing Education Credits: 20 PDHs

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc

Baker

Michael Baker Jr., Inc.
A Unit of Michael Baker Corporation

Airside Business Park
100 Airside Drive
Moon Township, PA 15108

(412) 269-6300
FAX (412) 375-3998

September 7, 2010

Jason Mathers, EIT
Structural Engineer, Transportation
AECOM
125 Rock Road
Horsham, PA 19044

Subject: National Highway Institute, Course No. 130078
"Fracture Critical Inspection Techniques for Steel Bridges"
June 23-26, 2009
Boston, MA
NHI Certificate Confirmation

Dear Mr. Mathers:

This letter provides confirmation that you attended and completed the subject course presented at the Boston, MA.

Our records indicate that an NHI certificate of completion was awarded June 26, 2009.

If I can be of further assistance, please call.

Sincerely yours,

MICHAEL BAKER JR., INC.

J. Eric Mann, P.E.
Course Director

JEM/cap

CERTIFICATIONS

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 7/12/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Jason Robert Mathers
3 Shepherds Way
Glenside, Pennsylvania 19038

Cut Here

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Jason Robert Mathers

License/Certificate Type - Number	Expiration Date
PE.0046129	03/31/2026

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer
All information provided by LAPELS on this web page, and on its other web pages and internet sites, is made available to provide immediate access for the convenience of interested persons. While LAPELS believes the information to be reliable, human or mechanical error remains a possibility, as does delay in the posting or updating of information. Therefore, LAPELS makes no guarantee as to the accuracy, completeness, timeliness, currency, or correct sequencing of the information. Neither LAPELS, nor any of the sources of the information, shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information. Other specific cautionary notices may be included on other web pages maintained by LAPELS.

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Pennsylvania Department of Transportation

Certificate of Training

Jason Mathers

has attended

Basic Course on Bridge Safety Inspection Training

Sponsored by the Bureau of Design

Presented By: Michael Baker Jr., Inc

Course Dates: 9/26/2005 to 10/13/2005

CEUs Earned 6.00

Harold C. Rogers, Jr., P.E.
Acting Chief Bridge Engineer

Steven A. Davis
Human Resources Development Manager

PENNDOT

SPRAT

Rope Access Certification
Level 3

Jason Mathers

SPRAT Certification # 120287
Date of Birth: 11 JUL 1983

Certification Date: 24 FEB 2023
Expiration Date: 24 FEB 2026

CERTIFICATIONS

pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Connor Moss

On 11/2/2023 successfully completed the

PennDOTs Bridge Safety Inspector Certification

Sponsored by the Highway Administration Deputate

Presented by: Michael Baker International
With the score of: 73.33%
Continuing Education Credits: 70 PDHs

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings

CERTIFICATIONS

pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Michael Zavorski

On 12/16/2021 successfully completed the

Bridge Inspection Refresher Course

Sponsored by the Highway Administration Deputate

Presented by: Michael Baker International
With the score of: 91.11%
Continuing Education Credits: 20 PDHs

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc

Commonwealth of Pennsylvania

DEPARTMENT OF TRANSPORTATION

CERTIFICATE OF TRAINING

Michael P. Zavorski

has attended the 75 hour course on Basic Bridge Safety Inspector's Training.

Director, Bureau of Bridge & Roadway Technology

Chief, Training Division

Course Director, Michael [illegible]

March 28, 1991
Date

CERTIFICATIONS

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

Rope Access Certification

SPRAT

Acknowledges that

SEAN QUICK

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 #2300422
AWARDED: 24 February, 2023
Expires: 24 February, 2026

DAVIDE SARTONI, EVALUATIONS COMMITTEE CHAIR

RICHARD DELANEY, SPRAT PRESIDENT

SPRAT's Technician Verification System may be used to verify the accuracy of data on this certificate.

pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Sean Quick

On 11/9/2023 successfully completed the

Bridge Inspection Refresher Course

Sponsored by the Highway Administration Deputate

Presented by: Michael Baker International
With the score of: 86.25%
Continuing Education Credits: 20 PDHs

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc

pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Sean Quick

On 11/4/2021 successfully completed the

PennDOTs Bridge Safety Inspector Certification

Sponsored by the Highway Administration Deputate

Presented by: Michael Baker International
With the score of: 87.77%
Continuing Education Credits: 96 PDHs

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc

AECOM

CERTIFICATIONS


U.S. Department Of Transportation
Federal Highway Administration
NHI
National Highway Institute
Certificate of Training
April Yorkonis
has participated in
Fracture Critical Inspection Techniques for Steel Bridges
hosted by
Pennsylvania Department of Transportation

Location:	Montoursville PA	*Hours of instruction:*	21
Date:	Feb. 15-18, 2005	CEUs:	2.1

Instructor
Coordinator
Director, National Highway Institute
Federal Highway Administration
Director, Office of Professional Development
Federal Highway Administration


pennsylvania
DEPARTMENT OF TRANSPORTATION
Certificate of Training
April Yorkonis
On 5/11/2023 successfully completed the
Bridge Inspection Refresher Course
Sponsored by the Highway Administration Deputate

Presented by: Michael Baker International
With the score of: 87.77%
Continuing Education Credits: 20 PDHs

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc


Commonwealth of Pennsylvania
DEPARTMENT OF TRANSPORTATION
CERTIFICATE OF TRAINING
April Yorkonis
has satisfactorily completed the 78-hour Basic Course on Bridge Safety Inspection Training and meets the Department's requirements for certification as "Certified Bridge Safety Inspector".

Course Director, Michael Baker, Jr., Inc.
Raymond A. Hartle, P.E.
February 4 - 21, 2002
Date
Chief Bridge Engineer
H. Scott Christie, P.E.
Chief, Training Division

CERTIFICATIONS

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 7/12/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Jason Andrew Zimpfer
625 West Ridge Pike, Suite E-100
Conshohocken, Pennsylvania 19428

Cut Here

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Jason Andrew Zimpfer

License/Certificate Type - Number	Expiration Date
PE.0045922	03/31/2026

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer
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U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Jason A. Zimpfer

has participated in

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

hosted by

Maryland State Highway Administration

Date: March 9 thru 20, 2009 *Hours of Instruction:* 60.0

Location: Office of Materials Technology
Hanover, Maryland

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Jason Zimpfer

On 4/14/2022 successfully completed the

Bridge Inspection Refresher Course

Sponsored by the Highway Administration Deputate

Presented by: Michael Baker International
With the score of: 93.33%
Continuing Education Credits: 20 PDHs

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc

CERTIFICATIONS

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Carlye Waldon

has participated in

FHWA-NHI-135047 Stream Stability and Scour at Highway Bridges for Bridge Inspectors

hosted by

Office of State Aid Road Construction

Date: March 21, 2023
Location: Ridgeland, MS

Hours of Instruction: 6

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Carlye Waldon

has Successfully Completed

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

hosted by

Office of State Aid Road Construction

Date: March 21-April 01, 2022
Location: Ridgeland, MS

Hours of Instruction: 67

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

CERTIFICATIONS

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

Daniel Boyd

has participated in

FHWA-NHI-130056 Safety Inspection of In-Service Bridges for Professional Engineers

hosted by

Office of State Aid Road Construction

Date: *August 21-25, 2023*
Location: *Jackson, MS*

Hours of Instruction: 34

Instructor

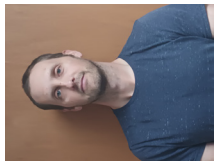
Instructor

Local Coordinator

Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute

CERTIFICATIONS



SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

Rope Access Certification

SPRAT

Society of Professional Rope Access Technicians

Acknowledges that

KEVIN CURLEY

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 #2001037
AWARDED: 19 April, 2024
Expires: 19 April, 2027

DAVIDE SARTONI, EVALUATIONS COMMITTEE CHAIR

RICHARD DELANEY, SPRAT PRESIDENT

SPRAT's Technician Verification System may be used to verify the accuracy of data on this certificate.

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NHI NATIONAL HIGHWAY INSTITUTE

Kevin Curley

has participated in

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

hosted by

Office of State Aid Road Construction

Date: *January 21-24, 2020*
Location: *Ridgeland, MS*

Hours of Instruction: 25

Instructor
Instructor

Local Coordinator

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Kevin Curley

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Iowa LTAP

Date: *March 29-31, 2022*
Location: *Ames, IA*

Hours of Instruction: 18

Instructor
Instructor

Local Coordinator

Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NHI NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Kevin Curley, EIT

has participated in

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

hosted by

Office of State Aid Road Construction

Date: *June 19-30, 2017*
Location: *Ridgeland, MS*

Hours of Instruction: 67

Instructor
Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

CERTIFICATIONS

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

Rope Access Certification

SPRAT

Acknowledges that

MORGAN BAUMANN

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 #2400826
AWARDED: 29 March, 2024
Expires: 29 March, 2027

DAVIDE SARTONI, EVALUATIONS COMMITTEE CHAIR

RICHARD DELANEY, SPRAT PRESIDENT

SPRAT's Technician Verification System may be used to verify the accuracy of data on this certificate.

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Morgan Baumann

has successfully Completed

FHWA-NHI-130055 Safety Inspection of In-Service Bridges (SNBI)

hosted by

MKEC Engineering Inc.

Date: February 19-March 01, 2024
Location: Wichita, KS

Hours of Instruction: 68

Instructor

Local Coordinator

Instructor

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

CERTIFICATIONS

National Highway Institute

Certificate of Training

Paul Davis

FHWA-NHI-130091 Underwater Bridge Inspection

Arkansas Department of Transportation

Date: April 11 – 14, 2022
Location: Little Rock, AR

Hours of Instruction: 24

Instructor
Instructor
Local Coordinator
Thomas Harman
Thomas Harman, Director
National Highway Institute

National Highway Institute

Certificate of Training

Paul Davis

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

C. V. Associates NY; PE, LS, P.C.

Date: February 14-25, 2022
Location: Harriman, NY

Hours of Instruction: 67

Instructor
Instructor
Local Coordinator
Thomas Harman
Thomas Harman, Director
National Highway Institute

Association of Diving Contractors International

Cert. # 64037

Expires 02/03/2027

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

PAUL W. DAVIS I.D. 4143

Commercial Diver Certification Card

CERTIFICATIONS

National Highway Institute

Certificate of Training

Michael Dukes

has participated in

FHWA-NHI-420018 Instructor Development Course

hosted by

National Highway Institute

Date: March 18-21, 2014 *Hours of Instruction:* 21

Location: Arlington, VA

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Michael Dukes

has participated in

Fracture Critical Inspection Techniques for Steel Bridges

hosted by

Michigan Department of Transportation

Date: February 15 - 18, 2022 *Hours of Instruction:* 25

Location: Lansing, Michigan

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Michael Dukes

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Boston Society of Civil Engineers Section/ASCE

Date: January 28-30, 2015 *Hours of Instruction:* 27 – 27 CEUs

Location: Taunton, MA

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Michael D. Dukes

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Texas Department of Transportation

Date: March 9-12, 2021 *Hours of Instruction:* 18

Location: Virtual Delivery, TX

Digitally signed by Mark J. Nyenga
Date: 2021.03.19 11:03:17 -04'00'

Instructor

Digitally signed by Mark Patrick Kane
DN: cn=Mark Patrick Kane, o=GR, ou=Transportation, email=mark.kane@aecom.com
Date: 2021.03.19 09:27 -04'00'

Instructor

Shandon Richardson

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

CERTIFICATIONS

National Highway Institute

Certificate of Training

Michael Dukes

has participated in

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

hosted by

Oklahoma Department of Transportation

Date: October 5 - 16, 2015
Location: Oklahoma City, OK
Hours of Instruction: 67 Hours

Instructor
Local Coordinator
Instructor
Valerie Briggs, Director
National Highway Institute

Association of Diving Contractors International

Cert. # 58165

Expires 07/27/2028

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

MICHAEL DUKES I.D. 0181

Commercial Diver Certification Card

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 5/2/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Michael D. Dukes
609 South Kelly Avenue, Suite J1
Edmond, Oklahoma 73003

Cut Here

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Michael D. Dukes

License/Certificate Type - Number	Expiration Date
PE.0040986	03/31/2025

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

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CERTIFICATIONS

BUREAU OF PROFESSIONAL AND OCCUPATIONAL AFFAIRS
P. O. Box 2649
Harrisburg, PA 17105-2649
07/16/2024

License Information

ERIC WILLIAM HARBESON

Dripping Springs, Texas 78620

Board/Commission:	State Registration Board for Professional Engineers, Land Surveyors and Geologists	Status Effective Date:	10/17/2023
LicenseType:	Professional Engineer	Issue Date:	01/07/2016
Specialty Type:		Expiration Date:	09/30/2025
License Number:	PE084508	Last Renewal:	09/28/2021
Status:	Active		

Disciplinary Action Details

No disciplinary actions were found for this license.

This site is considered a primary source for verification of license credentials provided by the Pennsylvania Department of State.

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Eric William Harbeson

has participated in

FHWA-NHI-420018 Instructor Development Course

hosted by

Washington State Department of Transportation
Local Programs LTAP Center

Date: September 26, 2023-September 29, 2023 Hours of Instruction: 25 hours
Location: Tumwater, Washington

Instructor

Instructor

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Eric Harbeson

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Texas Department of Transportation

Date: April 10-13, 2023
Location: Austin, TX

Hours of Instruction: 24

Instructor

Instructor

Local Coordinator
Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Eric Harbeson

has participated in

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

hosted by

Kansas Department of Transportation

Date: April 18-21, 2023
Location: Topeka, KS

Hours of Instruction: 25

Instructor

Instructor

Local Coordinator
Thomas Harman
Thomas Harman, Director
National Highway Institute

CERTIFICATIONS

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Eric W. Harbeson

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Whitman, Requardt & Associates, LLP

Date: September 14 - 16, 2021
Location: Virtual Delivery, MD

Hours of Instruction: 18

Instructor

Instructor

Debra Rizzieri
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

Rope Access Certification

SPRAT
Society of Professional Rope Access Technicians

Acknowledges that

ERIC HARBESON

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

Level 3 Technician

SPRAT #171728
AWARDED: 13 January, 2023
Expires: 13 January, 2026

DAVIDE SARTONI, EVALUATIONS COMMITTEE CHAIR

RICHARD DELANEY, SPRAT PRESIDENT

SPRAT's Technician Verification System may be used to verify the accuracy of data on this certificate.

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Eric W. Harbeson

has participated in

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

hosted by

Pennsylvania Department of Transportation

Date: September 29-October 16, 2008
Location: Harrisburg, PA

Hours of Instruction: 60

Instructor

Instructor

Local Coordinator

Joseph S. Taylor, Associate Administrator
Office of Professional and Corporate Development

CERTIFICATIONS

National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

Certificate of Training

Heath Pope

FHWA-NHI-420018 Instructor Development Course

CONSOR Engineers, LLC

Date: February 20-23, 2024
Location: Dallas, TX

Hours of Instruction: 21

Instructor

Local Coordinator

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

Instructor

U.S. Department Of Transportation
Federal Highway Administration

NATIONAL HIGHWAY INSTITUTE

National Highway Institute
Certificate of Training

Heath K. Pope

has participated in

Underwater Bridge Inspection
NHI Course 130091

hosted by

Collins Engineers, Inc.

Location: Holland, Michigan

Hours of Instruction: 20

Date: September, 2007

Instructor

Coordinator

Director, National Highway Institute
Federal Highway Administration

Director, Office of Professional Development
Federal Highway Administration

National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

Certificate of Training

HEATH POPE

FHWA-NHI-130078

Fracture Critical Inspection Techniques for Steel Bridges

LA DOTD/LTRC

Date: October 24-27, 2023
Location: Baton Rouge, LA

Hours of Instruction: 25

Instructor

Allison H. Landry
Local Coordinator

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

Instructor

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Heath K. Pope

FHWA-NHI-130053 Bridge Inspection Refresher Training

Office of State Aid Road Construction

Date: August 30-September 01, 2022
Location: Ridgeland, MS

Hours of Instruction: 18

Instructor

Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

Instructor

CERTIFICATIONS

U.S. Department Of Transportation
Federal Highway Administration

NATIONAL HIGHWAY INSTITUTE

National Highway Institute
Certificate of Training

Heath Pope

has participated in

Safety Inspection of In-Service Bridges

hosted by

Michigan Department of Transportation

Location: Lansing ***Hours of Instruction:*** 80

Date: February 4, 2005

William R. Gedris
Instructor

Moges Ayele
Director, National Highway Institute
Federal Highway Administration

Dennis M. Libby
Coordinator

Director, Office of Professional Development
Federal Highway Administration

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 9/1/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Heath Kennedy Pope
17411 135th Lane East
Puyallup, Washington 98374

Cut Here

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Heath Kennedy Pope

License/Certificate Type - Number	Expiration Date
PE.0036946	09/30/2024

Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

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CERTIFICATIONS

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Dustin Noel

has participated in

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

hosted by

GAI Consultants, Inc.

Date: December 10-13, 2019
Location: Cranberry Township, PA

Hours of Instruction: 25

Instructor

Instructor

Local Coordinator

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Dustin Noel

FHWA-NHI-130056 Safety Inspection of In-Service Bridges for Professional Engineers

Ohio Department of Transportation

Date: February 26-March 1, 2024
Location: Columbus, Ohio

Hours of Instruction: 34.0

Instructor

Instructor

Local Coordinator

Stacey J. Caston

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Dustin W. Noel

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Colorado Department of Transportation

Date: March 25-27, 2019
Location: Denver, CO

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Michael Davies, Director
National Highway Institute

Pennsylvania Department of Transportation

Certificate of Training

Dustin W. Noel

has attended

Basic Course on Bridge Safety Inspection Training

Sponsored by the Bureau of Design

CERTIFICATIONS

Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO BOX 2649 Harrisburg PA 17105-2649

23 0087111

License Type
Professional Engineer

DUSTIN WILLIAM NOEL
108 ROYAL PL
MCMURRAY, PA 15317

License Status
Active

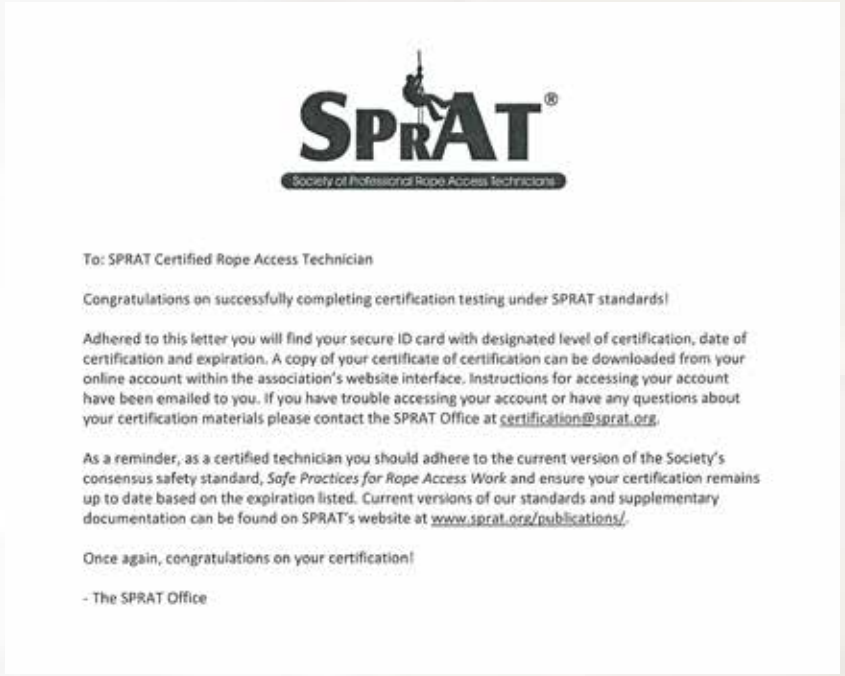
Initial License Date
06/12/2012

License Number
PE079989

Expiration Date
09/30/2025

Acting Commissioner Arion R. Claggett

Signature



SPRAT
Society of Professional Rope Access Technicians

To: SPRAT Certified Rope Access Technician

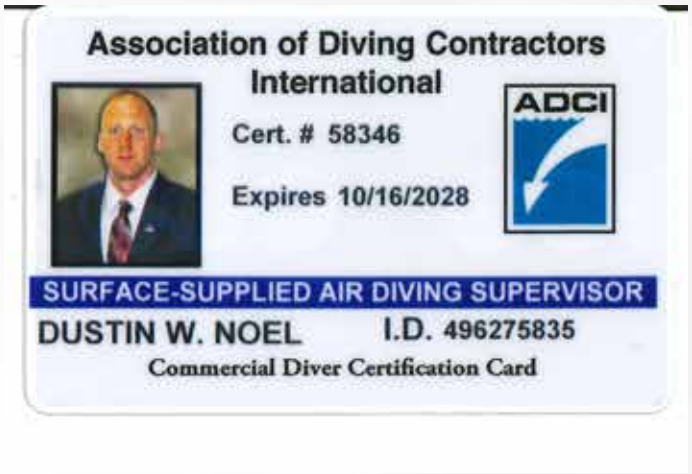
Congratulations on successfully completing certification testing under SPRAT standards!

Adhered to this letter you will find your secure ID card with designated level of certification, date of certification and expiration. A copy of your certificate of certification can be downloaded from your online account within the association's website interface. Instructions for accessing your account have been emailed to you. If you have trouble accessing your account or have any questions about your certification materials please contact the SPRAT Office at certification@sprat.org.

As a reminder, as a certified technician you should adhere to the current version of the Society's consensus safety standard, *Safe Practices for Rope Access Work* and ensure your certification remains up to date based on the expiration listed. Current versions of our standards and supplementary documentation can be found on SPRAT's website at www.sprat.org/publications/.

Once again, congratulations on your certification!

- The SPRAT Office



Association of Diving Contractors International

Cert. # 58346

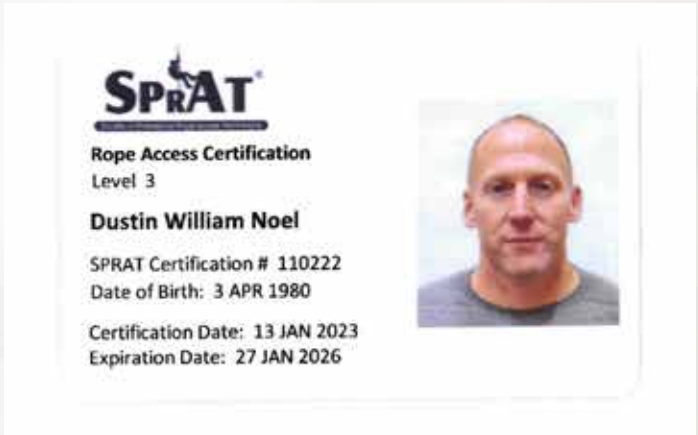
Expires 10/16/2028

ADCI

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

DUSTIN W. NOEL I.D. 496275835

Commercial Diver Certification Card



SPRAT

Rope Access Certification
Level 3

Dustin William Noel

SPRAT Certification # 110222
Date of Birth: 3 APR 1980

Certification Date: 13 JAN 2023
Expiration Date: 27 JAN 2026

CERTIFICATIONS

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Dustin Noel

has participated in

FHWA-NHI-420018 Instructor Development Course

hosted by

Consor Engineering

Date: February 19-22, 2019
Location: Fort Worth, TX

Hours of Instruction: 21

Instructor

Instructor

Local Coordinator

Michael Davies, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Dustin Noel

has participated in

NHI 130091 Underwater Bridge Inspection Course

hosted by

Infrastructure Engineers, Inc.

Date: January 21 - 25, 2019
Location: Orlando, FL

Hours of Instruction: 24

Instructor

Instructor

Local Coordinator

Michael Davies, Director
National Highway Institute

CERTIFICATIONS

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Matthew Ratliff

has participated in

NHI Course No. 130091
Underwater Bridge Inspection (4 Days)

hosted by

LA DOTD/LTRC

Date: October 7-10, 2014 — *Hours of Instruction:* 21
Location: Baton Rouge, LA

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Matthew Ratliff

has participated in

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

hosted by

CONSOR Engineers

Date: January 18 - 21, 2022 — *Hours of Instruction:* 25
Location: Dallas, TX

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Matt Ratliff

has participated in

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

hosted by

North Dakota Department of Transportation

Date: July 26 - August 6, 2021 — *Hours of Instruction:* 67
Location: Bismarck, ND

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

Association of Diving Contractors International

ADCI

Cert. # 63277

Expires 07/26/2026

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

MATTHEW RATLIFF I.D. 1271

Commercial Diver Certification Card

CERTIFICATIONS

National Highway Institute

Certificate of Training

Chris Sasher

has participated in

FHWA-NHI-420018 Instructor Development Course

hosted by

CONSOR Engineers, LLC

Date: February 20-23, 2024
Location: Dallas, TX

Hours of Instruction: 21

Instructor

Local Coordinator

Instructor

Stacey J. Caston, Director
National Highway Institute

National Highway Institute

Certificate of Training

Chris Sasher

has participated in

FHWA-NHI-130078

Fracture Critical Inspection Techniques for Steel Bridges

hosted by

Eastern Federal Lands Highway Division

Date: February 19-22, 2013
Location: Sterling, VA

Hours of Instruction: 21

Instructor

Local Coordinator

Instructor

Richard Barnaby, Director
National Highway Institute

National Highway Institute

Certificate of Training

Chris Sasher

has participated in

NHI 130055

Safety Inspection of In-Service Bridges

hosted by

Oklahoma Department of Transportation

Date: October 20-31, 2008
Location: Oklahoma City, OK

Hours of Instruction: 60

William R. Gedris, P.E.
Instructor

Local Coordinator

Gerald Jones, P.E.
Instructor

Office of Professional and Corporate Development

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

William C. Sasher

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Missouri Department of Transportation

Date: September 22-24, 2020
Location: Virtual Delivery, MO

Hours of Instruction: 18

Digitally signed by Calein A. MacDougall, P.E.
Date: 2020.09.25 16:13:08 -04'00'

Instructor

David Koenig
Local Coordinator

Finn K. Hubbard
Instructor

Thomas Harman
Thomas Harman, Director
National Highway Institute

CERTIFICATIONS

SPRAT Certification Verification System

SPRAT Certification Verification System

SPRAT Number: 090511

Last Name: Sasher

Reset Form | Search for SPRAT Technician(s)

Search Result(s):

First Name: William Christopher

Last Name: Sasher

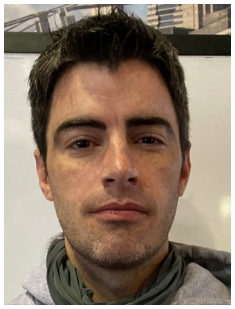
SPRAT Number: 090511

Rope Access Certification: Level 3

Rope Access Expiration: 17 June, 2025

Work-at-Height Certification: Certified

Work-at-Height Expiration: 01 February, 2026



SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

Rope Access Certification

SPRAT

Society of Professional Rope Access Technicians

Acknowledges that

WILLIAM CHRISTOPHER SASHER

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

Level 3 Technician

SPRAT #090511

AWARDED: 28 January, 2022

Expires: 17 June, 2025

DAVIDE SARTONI, EVALUATIONS COMMITTEE CHAIR

RICHARD DELANEY, SPRAT PRESIDENT

SPRAT's Technician Verification System may be used to verify the accuracy of data on this certificate.

1/17/2023 DBPR - SASHER, WILLIAM CHRISTOPHER, Professional Engineer

THE OFFICIAL SITE OF THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION

Florida dbpr Department of Business & Professional Regulation

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ONLINE SERVICES

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- AB&T Delinquent Invoice & Activity List Search

LICENSEE DETAILS *7:54:00 AM 1/17/2023*

Licensee Information

Name:	**SASHER, WILLIAM CHRISTOPHER** (Primary Name)
Main Address:	**3927 OAKINGTON PLACE LONGWOOD Florida 32779**
County:	**SEMINOLE**

License Information

License Type:	**Professional Engineer**
Rank:	**Prof Engineer**
License Number:	**74796**
Status:	**Current,Active**
Licensure Date:	**06/08/2012**
Expires:	**02/28/2025**

Special Qualifications	Qualification Effective
Civil	01/20/2012

Alternate Names

View Related License Information

View License Complaint

2601 Blair Stone Road, Tallahassee FL 32399 :: Email: Customer Contact Center :: Customer Contact Center: 850.487.1395

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Under Florida law, email addresses are public records. If you do not want your email address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. Please see our Chapter 455 page to determine if you are affected by this change.

https://www.myfloridalicense.com/LicenseDetail.asp?SID=&id=BC2C2A9BD2B3754659ADBC9C4CF75456 1/2

CERTIFICATIONS

National Highway Institute

Certificate of Training

Ben Schaefer

has participated in

FHWA-NHI-420018 Instructor Development Course

hosted by

Consor Engineering

Date: February 19-22, 2019 *Hours of Instruction:* 21

Location: Fort Worth, TX

Instructor

Instructor

Local Coordinator

Michael Davies, Director
National Highway Institute

National Highway Institute

Certificate of Training

Benjamin Schaefer

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

U.S. Army Corps of Engineers

Date: April 8-11, 2014 *Hours of Instruction:* 21

Location: Portland, OR

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Benjamin Schaefer

has participated in

Fracture Critical Inspection Techniques for Steel Bridges (FHWA/NHI)

hosted by

Washington State Department of Transportation
Local Programs LTAP Center

Date: October 27, 2015-October 30, 2015 *Hours of Instruction:* 25 hours

Location: Olympia, Washington

Instructor

Instructor

Local Coordinator FHWA-WA

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Benjamin Schaefer

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Texas Department of Transportation

Date: July 14-17, 2020 *Hours of Instruction:* 18

Location: Web-Conference Course

Instructor

Instructor

Local Coordinator

Nathaniel Coley, Jr.
Acting Director, National Highway Institute

consor CERTIFICATIONS

Bridge Inspection Training School

This certifies that

Benjamin Schaefer

Has completed a Federal Highway Administration (FHWA) approved comprehensive course

NM STATE Bridge Inspection Program

January 6 - 17, 2014

Kenneth R. White, Ph.D., P.E.
Bridge Inspection Engineer
Department of Civil Engineering
New Mexico State University

Peter T. Martin, Ph.D., P.E.
Department Head
Department of Civil Engineering
New Mexico State University

David Jáuregui, Ph.D., P.E.
Director, Bridge Inspection Program
Department of Civil Engineering
New Mexico State University

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

Rope Access Certification

SPRAT® Society of Professional Rope Access Technicians

Acknowledges that

BENJAMIN SCHAEFER

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

Level 3 Technician

SPRAT #160617
AWARDED: February 02, 2024
Expires: February 02, 2027

TROLL ., EVALUATIONS COMMITTEE CHAIR

RICHARD DELANEY, SPRAT PRESIDENT

SPRAT's Technician Verification System may be used to verify the accuracy of data on this certificate.

7/16/24, 1:38 PM Print Lookup Details

Lookup Detail View

Licensee Information

This serves as primary source verification of the license.*

**Primary source verification: License information provided by the Colorado Division of Professions and Occupations, established by 24-34-102 C.R.S.*

Name	Public Address
Benjamin Jerry Schaefer	Lakewood, CO 80227

Credential Information

License Number	License Method	License Type	License Status	Original Issue Date	Effective Date	Expiration Date
PE.0054369	Examination	Professional Engineer	Active	06/13/2018	11/01/2023	10/31/2025

Board/Program Actions

Discipline
There is no Discipline or Board Actions on file for this credential.

Generated on: 7/16/2024 12:38:13 PM

CERTIFICATIONS

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Arthur LeForge

has participated in

NHI 130091 Underwater Bridge Inspection Course

hosted by

Infrastructure Engineers, Inc.

Date: January 21 - 25, 2019 *Hours of Instruction:* 24

Location: Orlando, FL

Instructor

Instructor

Local Coordinator

Michael Davies, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Arthur LeForge

has participated in

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

hosted by

WSP USA Inc.

Date: September 20- October 1, 2021 *Hours of Instruction:* 67

Location: Mooresville, NC

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

Association of Diving Contractors International

Cert. # 62449

Expires 02/11/2026

ADCI

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

AURTHUR LEFORGE I.D. 505971580

Commercial Diver Certification Card

CERTIFICATIONS

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Andrew Harrison

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Infrastructure Engineers, Inc.

Date: Jan. 22-25, 2019

Location: St. Cloud, FL

Hours of Instruction: 24

/S/ Greg Roy
Instructor

Instructor

/S/ Coleen Beckinger
Local Coordinator

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Andrew Harrison

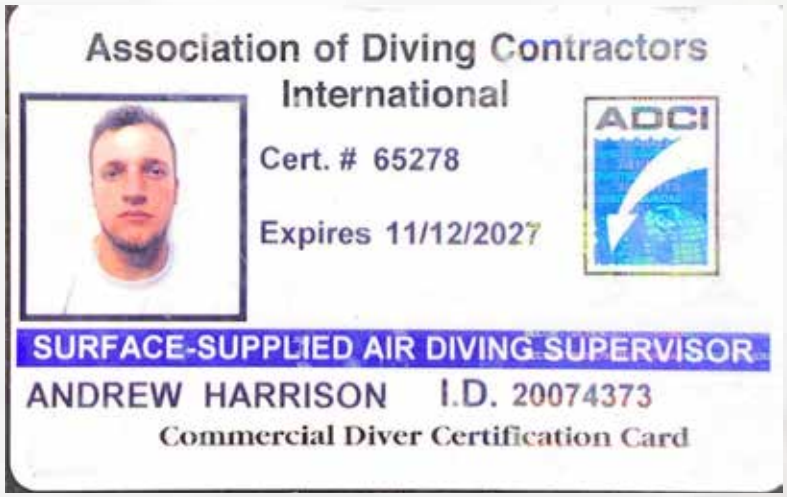
FHWA-NHI-130055 Safety Inspection of In-Service Bridges

CONSOR Engineers

Date: *August 16-27, 2021*
Location: *Charlotte, NC*

Hours of Instruction: 60

Instructor
Local Coordinator
Instructor
Thomas Harman
Thomas Harman, Director
National Highway Institute



Association of Diving Contractors International

Cert. # 65278

Expires 11/12/2027

ADCI

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

ANDREW HARRISON I.D. 20074373

Commercial Diver Certification Card

CERTIFICATIONS

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Michael Sorensen

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

W.J. Castle, P.E. & Associates, P.C.

Date: February 13-16, 2023 Hours of Instruction: 24

Location: Westampton, NJ

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Michael Sorensen

has participated in

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

hosted by

North Dakota Department of Transportation

Date: July 26 - August 6, 2021 Hours of Instruction: 67

Location: Bismarck, ND

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

Association of Diving Contractors International

ADCI

Cert. # 66467

Expires 08/18/2028

SURFACE-SUPPLIED AIR DIVER

MICHAEL SORENSON I.D. 8345

Commercial Diver Certification Card

HUVAL
& ASSOCIATES, INC.
Consulting Engineers

CERTIFICATIONS

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Andrew Juneau
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

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

Director of Training

Lafayette, LA
Location

President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA
SAFER ROADS SAVE LIVES

12/20/22

440382
Mr. Andrew Juneau
922 W. Pont Des Mouton Rd
Lafayette, LA 70507
USA

Dear Mr. Juneau,

The American Traffic Safety Services Association (ATSSA) appreciates your participation in our Traffic Control Supervisor Refresher-LA State Specific course held on 9/23/2022. Your certificate of attendance is enclosed.

You received a passing grade of 94.00% on the final examination. Congratulations on your successful completion of this course.

Please call us at 877-642-4637 if you have any questions.

Sincerely,

Training and Business
Development Department

~ Educated Employees Do Save Lives ~

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

American Traffic Safety Services Association
15 Riverside Parkway, Suite 100 • Fredericksburg, VA 22406-1077
Office: 540-368-1701 • Toll-Free: 800-272-8772 • Fax: 540-368-1717
ATSSA.com

HUVAL
& ASSOCIATES, INC.
Consulting Engineers

CERTIFICATIONS


Certificate of Training
NATIONAL HIGHWAY INSTITUTE

Certifies that PATRICK BROUSSARD
has satisfactorily completed 36 hours of training in
ENGINEERING CONCEPTS FOR BRIDGE INSPECTORS
conducted by Baker Engineers for the
Federal Highway Administration

February 4-8, 1991 — Port Allen, Louisiana


Department of Transportation and Development

Awards This Certificate
to
Patrick Broussard
For Completion of a
Comprehensive Movable Bridge Inspection Training Course
Conducted by the Louisiana Department of Transportation and Development
held in Baton Rouge, Louisiana
March 4 thru 8, 1990


Department of Transportation and Development

GRANTS THIS CERTIFICATE
TO
Patrick Broussard
AS A CERTIFIED BRIDGE INSPECTOR
HAVING ATTAINED THE NECESSARY MINIMUM EXPERIENCE AND TRAINING
REQUIRED BY THE CODE OF FEDERAL REGULATIONS, 23CFR 650.307
"QUALIFICATIONS OF PERSONNEL"
TO BE A LOUISIANA DOTD CERTIFIED BRIDGE INSPECTOR


Certificate of Training
NATIONAL HIGHWAY INSTITUTE

US Department of Transportation
Federal Highway Administration

Certifies that Patrick Broussard
has satisfactorily completed 80 hours of training in
SAFETY INSPECTION OF IN-SERVICE BRIDGES
conducted by FEDERAL HIGHWAY ADMINISTRATION

September 9-20, 1991 — Baton Rouge, Louisiana

HUVAL
& ASSOCIATES, INC.
Consulting Engineers

CERTIFICATIONS


National Highway Institute
Certificate of Training
Patrick J. Broussard
has participated in
Bridge Inspection Refresher Training
hosted by
LADOTD / LTRC
Location: Lafayette, LA
Hours of Instruction: 18
Date: February 14-16, 2006


National Highway Institute
Certificate of Training
Patrick Broussard
NHI Course No. 130099 - Bridge Inspection
Non-Destructive Evaluation Showcase (BINS)
LA DOTD/LTRC
Date: [illegible]ember 7, 2010
Location: Baton Rouge, LA
Hours of Instruction: 8


National Highway Institute
Certificate of Training
Patrick Broussard
NHI Course No. 130053 –
Bridge Inspection Refresher Training
LA DOTD/LTRC
Date: April 26-28, 2011
Location: Lafayette, LA
Hours of Instruction: 18


U.S. Department of Transportation
Federal Highway Administration
National Highway Institute
Certificate of Training
Patrick Broussard
FHWA - NHI Course No. 130053
Bridge Inspection Refresher Training (3 Days)
LA DOTD/LTRC
Date: September 22-24, 2015
Location: Baton Rouge, LA
Hours of Instruction: 18
Instructor
Instructor
Allison H. Landry
Local Coordinator
Valerie Briggs, Director
National Highway Institute

HUVAL & ASSOCIATES, INC.
Consulting Engineers

CERTIFICATIONS

National Highway Institute
Certificate of Training

Colby Guidry

has participated in

Safety Inspection In-Service Bridges

hosted by

ALABAMA DEPARTMENT OF TRANSPORTATION

Location: Mobile, Alabama
Date: May 14 – 25, 2007
Hours of instruction: 72

National Highway Institute
Certificate of Training

Colby Guidry

has participated in

Fundamentals of LRFR and Applications of LRFR for Bridge Superstructures

hosted by

LA DOTD/LTRC

Date: December 7-10, 2009
Location: Baton Rouge, LA
Hours of Instruction: 24

Instructor
Instructor
Local Coordinator
Richard Barnaby, Director
National Highway Institute

National Highway Institute
Certificate of Training

Colby Guidry

has participated in

Fracture Critical Inspection Techniques for Steel Bridges

hosted by

LA DOTD/LTRC

Date: April 27-30, 2009
Location: Baton Rouge, LA
Hours of Instruction: 21

Instructor
Local Coordinator
Richard Barnaby, Director
National Highway Institute

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Colby J Guidry
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

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

Director of Training

Lafayette, LA
Location

President, CEO

ATSSA

HUVAL
& ASSOCIATES, INC.
Consulting Engineers

CERTIFICATIONS

National Highway Institute

Certificate of Training

Colby Guidry

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Office of State Aid Road Construction

Date: April 21-23, 2015 *Hours of Instruction:* 18

Location: Jackson, MS

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

National Highway Institute

Certificate of Training

COLBY GUIDRY

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

LA DOTD/LTRC

Date: January 21-23, 2020 *Hours of Instruction:* 18

Location: Baton Rouge, LA

Instructor

Instructor

Local Coordinator

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Colby Guidry

has successfully completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Louisiana Department of Transportation and Development

Date: June 25-27, 2024 *Hours of Instruction:* 22

Location: Baton Rouge, LA

Mark Nyerges
Instructor

Earl Dubin
Instructor

Allison Landry
Local Coordinator

Stacey Caston
Stacey Caston, Director
National Highway Institute

CERTIFICATIONS

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Christopher Ligozio

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

PKB Engineering Corporation

Date: *February 17-19, 2020*
Location: *Secaucus, NJ*

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

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

Department of Commerce, Community, and Economic Development
CORPORATIONS, BUSINESS & PROFESSIONAL LICENSING

State of Alaska / Commerce / Corporations, Business, and Professional Licensing / Search & Database Download / Professional Licenses / License Details

LICENSE DETAILS

This serves as primary source verification* of the license.

License #: AELT14396
Program: Architects, Engineers and Land Surveyors
Type: Registered Professional Structural Engineer
Status: Active
Issue Date: 05/23/2014
Effective Date: 01/05/2024
Expiration Date: 12/31/2025
Mailing Address: ROCHESTER, NY, UNITED STATES

*Primary Source verification: License information provided by the Alaska Division of Corporations, Business and Professional Licensing, per AS 08 and 12 AAC.

Owners

Owner Name	Entity Number
Christopher A. Ligozio	

The University of the State of New York
Education Department
Office of the Professions
REGISTRATION CERTIFICATE
Do not accept a copy of this certificate

License Number: 075792-01 Certificate Number: 1740861

LIGOZIO CHRISTOPHER A
56 LAKE LEA RD
ROCHESTER NY 14617-0000

is registered to practice in New York State through 02/28/2025 as a(n)
PROFESSIONAL ENGINEER

LICENSE/REGISTRANT

EXECUTIVE SECRETARY

COMMISSIONER OF EDUCATION

Sarah A. Benson

DEPUTY COMMISSIONER FOR THE PROFESSIONS

Illinois Department of Financial and Professional Regulation

Lookup Detail View

Contact
Contact Information

Name	City/State/Zip	DBA / AKA
CHRISTOPHER A LIGOZIO	ROCHESTER, NY 14617	

License
License Information

License Number	Description	Status	First Effective Date	Effective Date	Expiration Date	Ever Disciplined
081005801	LICENSED STRUCTURAL ENGINEER	ACTIVE	07/11/2001	10/15/2022	11/30/2024	N

CERTIFICATIONS

National Highway Institute

Certificate of Training

Scott Wyatt

has participated in

Safety Inspection of In-Service Bridges

hosted by

LA DOTD/LTRC

Date: March 31-April 11, 2008 *Hours of Instruction:* 60

Location: Baton Rouge, Louisiana

Instructor

Instructor

Local Coordinator

Joseph S. Toole, Associate Administrator
Office of Professional and Corporate Development

National Highway Institute

Certificate of Training

SCOTT WYATT

has participated in

Fracture Critical Inspection Techniques for Steel Bridges
FHWA – NHI Course 130078

hosted by

Nebraska LTAP

Date: October 5 – October 8, 2010 *Hours of Instruction:* 21

Location: Lincoln, Nebraska

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

CERTIFICATIONS

AMPP
The Global Leaders in Materials Protection and Performance

SSPC PCS

Certifies

Robert Lanterman, PCS

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

PROTECTIVE COATINGS SPECIALIST

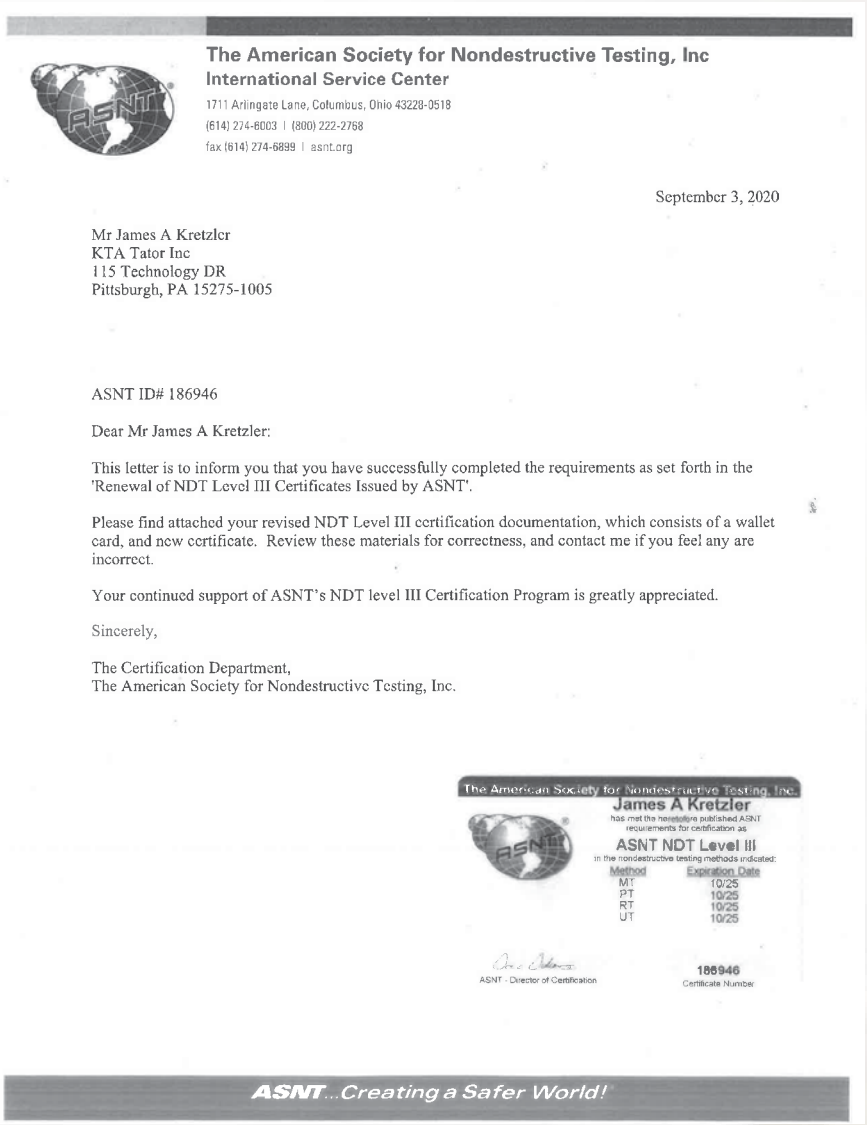
Valid Through December 31, 2027

2015-820-136
Certification Number

August 20, 2015
Original Date Issued

Executive Director AMPP

CERTIFICATIONS



The American Society for Nondestructive Testing, Inc
International Service Center
1711 Arlingate Lane, Columbus, Ohio 43228-0518
(614) 274-6003 | (800) 222-2768
fax (614) 274-6899 | asnt.org

September 3, 2020

Mr James A Kretzler
KTA Tator Inc
115 Technology DR
Pittsburgh, PA 15275-1005

ASNT ID# 186946

Dear Mr James A Kretzler:

This letter is to inform you that you have successfully completed the requirements as set forth in the 'Renewal of NDT Level III Certificates Issued by ASNT'.

Please find attached your revised NDT Level III certification documentation, which consists of a wallet card, and new certificate. Review these materials for correctness, and contact me if you feel any are incorrect.

Your continued support of ASNT's NDT level III Certification Program is greatly appreciated.

Sincerely,

The Certification Department,
The American Society for Nondestructive Testing, Inc.

The American Society for Nondestructive Testing, Inc.
James A Kretzler
has met the requirements published ASNT requirements for certification as
ASNT NDT Level III
in the nondestructive testing methods indicated:

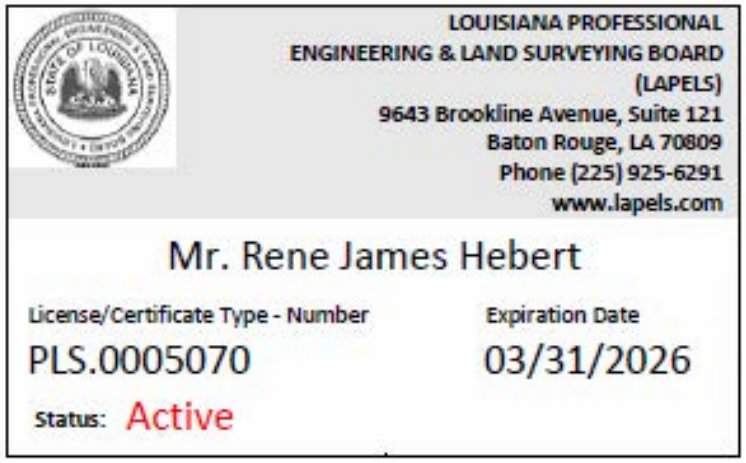
Method	Expiration Date
MT	10/25
PT	10/25
RT	10/25
UT	10/25

ASNT - Director of Certification

186946
Certificate Number

ASNT...Creating a Safer World!

CERTIFICATIONS



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Rene James Hebert

License/Certificate Type - Number
PLS.0005070

Expiration Date
03/31/2026

Status: Active

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Rene J Hebert
has attended
Traffic Control Technician-LA State Specific
Training Course

6/21/2022 to 6/21/2026
Training Valid Through

Baton Rouge, LA
Location

Director of Training

President, CEO

ATSSA

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Rene J Hebert
has attended
Traffic Control Supervisor-LA State Specific
Training Course

6/22/2022 to 6/22/2026
Training Valid Through

Baton Rouge, LA
Location

Director of Training

President, CEO

ATSSA

CERTIFICATIONS

LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Jean Louis Reulet III

License/Certificate Type - Number
PLS.0005145

Expiration Date
03/31/2026

Status: Active

VECTURA CONSULTING SERVICES, LLC

CERTIFICATIONS

Transportation Professional Certification Board Inc.

1627 Eye Street, NW • Suite 500 • Washington, DC 20006 USA • Tel: 202-785-0060 • Fax: 202-785-0609 • www.tpcb.org

Mr. Laurence L. Lambert, II, P.E., PTOE, PTP
Vectura Consulting Services, LLC
PO Box 14269
Baton Rouge, LA 70898-4269 USA

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

Your certification is renewed through 2/3/2025.

You will not be receiving a new certificate as the one sent to you does not indicate an expiration date and can be displayed as long as you are a certified PTOE. Note that your certificate shows your original certification date.

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

Prior to the expiration of your PTOE, you will be notified of your renewal deadline. Additional examinations are not required if you renew within **three-months** of your expiration date 2/3/2025. Failure to renew within the 3-month grace period will result in a certified inactive letter and penalty fees for renewal. Visit our website for more information. http://www.tpcb.org/PTOE/feeschedule.asp

TPCB seeks to maintain the highest level of quality for its certification programs. Since its inception, the TPCB has required its certificants to maintain records with regard fulfillment of continuing education requirements. Please be advised that as of January 1, 2018, TPCB is phasing in a policy in which 20% of certificant renewals will be randomly selected for audit and the certificant will be required to provide documentation (certificates of completion, course syllabus, meeting agenda/registration, etc.) to demonstration fulfillment of continuing education requirements. The professional record-keeping system available from ITE, provides a resource to record the dates of completion of continuing education and maintain the necessary supporting documentation.

The TPCB continues its efforts to grow and enhance the value of the PTOE and its other certifications. In 2019 the TPCB web site was redesigned and a new certification – the Road Safety Professional – was launched. Going forward the TPCB is committed to expanding the awareness of its certification programs, encouraging jurisdictions to give preference to certificants and growing the number of certified professionals.

The TPCB distributes a quarterly newsletter and highlights the value of the its certification programs through the tpcb,org website. If you would like to contribute to the newsletter or website, please send any items of interest to: certification@tpcb.org.

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

Sincerely,

Deborah L. Snyder

Deborah L. Snyder, P.E., PTOE
Chair, Transportation Professional Certification Board Inc.

Transportation Professional Certification Board Inc.

1627 Eye Street, NW • Suite 600 • Washington, DC 20006 USA • Tel: 202-785-0060 • Fax: 202-785-0609 • www.tpcb.org

Ms. Sheelagh B. Ferlito, P.E., PTOE
Vectura Consulting Services, LLC

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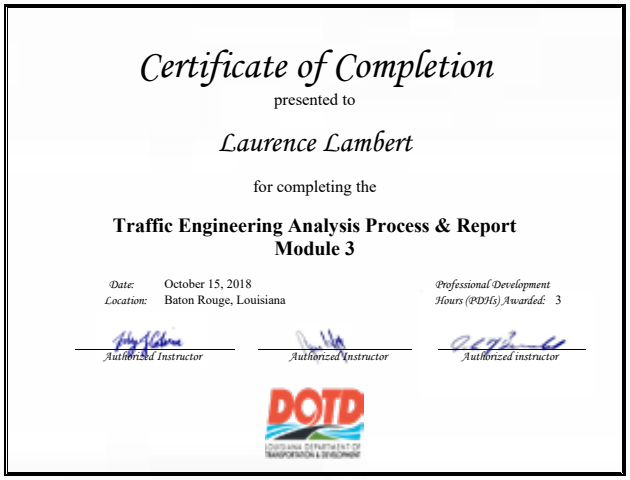
Thank you for your continued PTOE certification and best wishes in the coming years.

Sincerely,

Deborah L. Snyder, P.E., PTOE
Chair, Transportation Professional Certification Board Inc.

VECTURA CONSULTING SERVICES, LLC

CERTIFICATIONS



Certificate of Completion

presented to

Laurence Lambert

for completing the

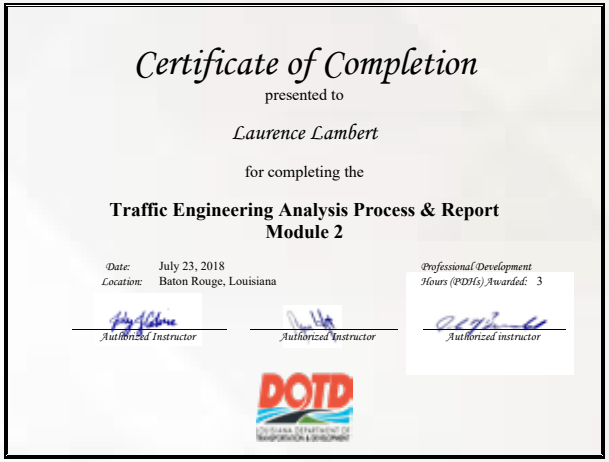
Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD



Certificate of Completion

presented to

Laurence Lambert

for completing the

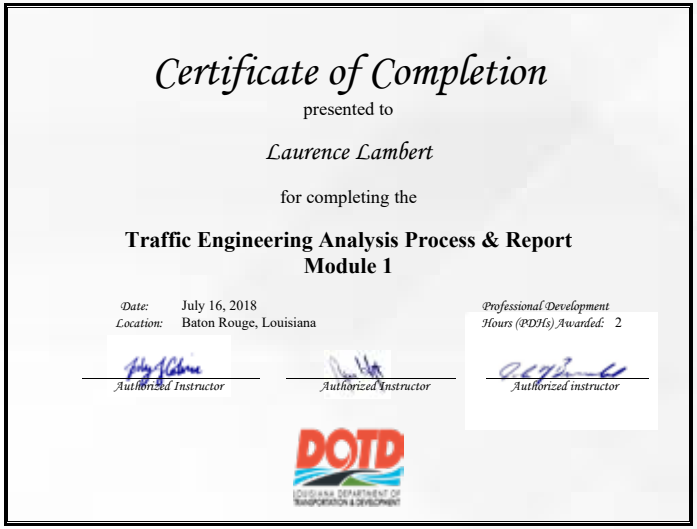
Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD



Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Laurence Lambert
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

4/29/2022 to 4/29/2026
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

VECTURA CONSULTING SERVICES, LLC

CERTIFICATIONS

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

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Training Course

4/29/2022 to 4/29/2026
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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This certificate provides proof of training, not certification.

ATSSA American Traffic Safety Services Association ATSSA.com

GOTECH CERTIFICATIONS

ATSSA
SAFER ROADS SAVE LIVES

Dear Certified Flagger:

Enclosed, please find your card signifying you as an ATSSA Certified Flagger. This card should be carried and presented to employers while performing work on our nation's roadways. Please be aware that the card is not valid without a Photo I.D.

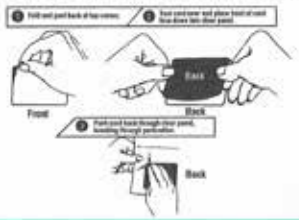
We commend you on your decision to become an ATSSA Certified Flagger. This distinction reflects that you have been trained by the leader in roadway safety and also entitles you to be listed on our National Flagger Database. Please review your state requirements for expiration of your flagger card. Also, please inform us of any errors or changes in your name or address so we may keep our records up to date.

Once again, ATSSA thanks you for your dedication to ensuring that our work zones are safe and that lives will be saved with proper training. Please visit our website at www.atssa.com for additional training courses and work zone safety products.

Sincerely,

Director of Training

Laminating the front of your card with Dual Laminate:



ATSSA American Traffic Safety Services Association

This is to affirm that

BRUCE DYSON

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Issue Date 8/4/2022 — Debbie Purcella, Instructor Name

Exp. Date 8/4/2026 — Instructor Signature

State Issued LA — Verify at Flaggercard.com

American Traffic Safety Services Association
15 Riverside Parkway, Suite 100 • Fredericksburg, VA 22406-1077
Office: 540-368-1701 • Toll-Free: 800-272-8772 • Fax: 540-368-1717
www.atssa.com

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 5/28/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Bruce K. Dyson
42465 Jamie Street
Prairieville, Louisiana 70769-6220

Cut Here

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Bruce K. Dyson

License/Certificate Type - Number: PE.0020162
Expiration Date: 03/31/2026
Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer
All information provided by LAPELS on this web page, and on its other web pages and internet sites, is made available to provide immediate access for the convenience of interested persons. While LAPELS believes the information to be reliable, human or mechanical error remains a possibility, as does delay in the posting or updating of information. Therefore, LAPELS makes no guarantee as to the accuracy, completeness, timeliness, currency, or correct sequencing of the information. Neither LAPELS, nor any of the sources of the information, shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information. Other specific cautionary notices may be included on other web pages maintained by LAPELS.

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GOTECH CERTIFICATIONS

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Bruce K Dyson
has attended
Traffic Control Supervisor-LA State Specific
Training Course

6/22/2022 to 6/22/2026
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

ATSSA provides training and certification for neither consultant employment by ATSSA.

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Bruce K Dyson
has attended
Traffic Control Technician-LA State Specific
Training Course

6/21/2022 to 6/21/2026
Training Valid Through

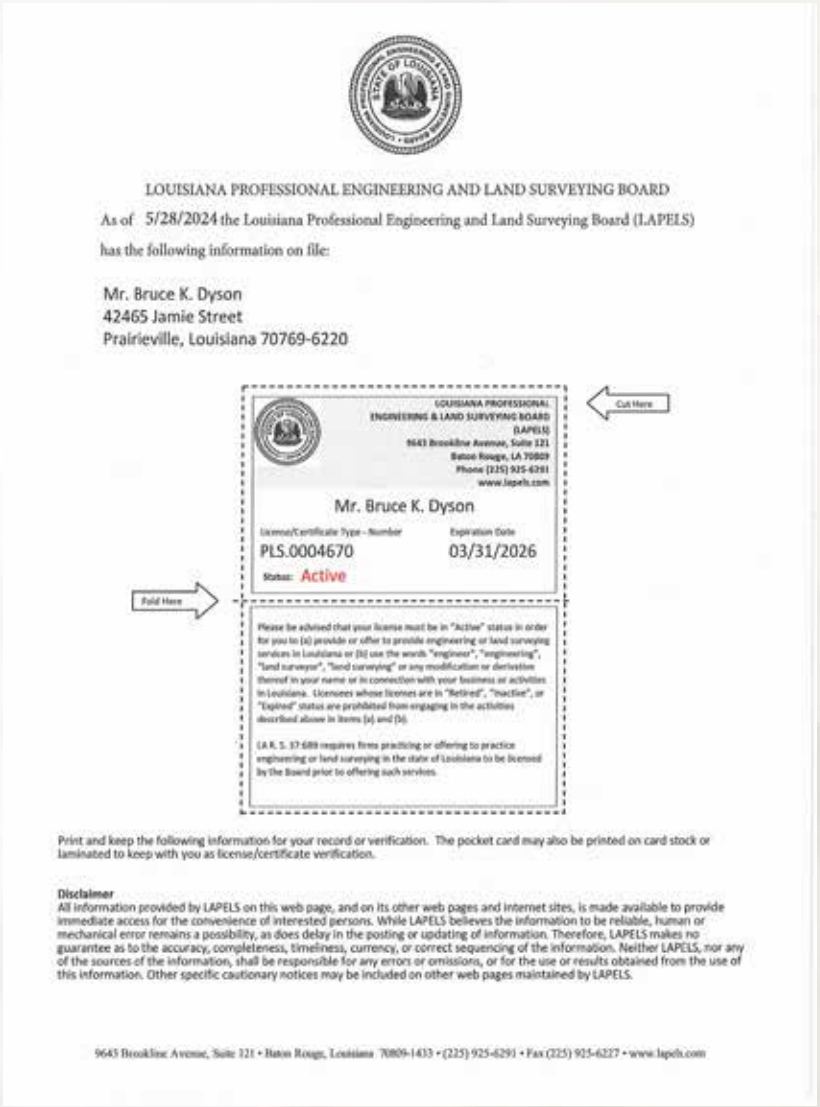
Director of Training

Baton Rouge, LA
Location

President, CEO

ATSSA provides training and certification for neither consultant employment by ATSSA.

ATSSA American Traffic Safety Services Association ATSSA.com



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Cut Here

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9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Bruce K. Dyson

License/Certificate Type – Number: PLS.0004670
Expiration Date: 03/31/2026
Status: Active

Fold Here

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivation thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

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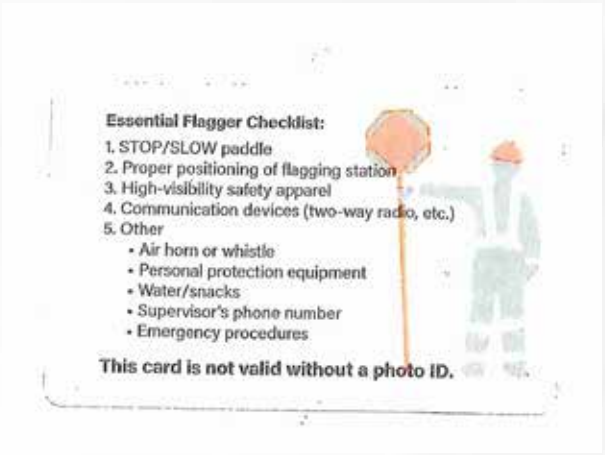
9643 Brookline Avenue, Suite 121 • Baton Rouge, Louisiana 70809-1433 • (225) 925-6291 • Fax (225) 925-6227 • www.lapels.com

GOTECH

CERTIFICATIONS



Sections 21-23

***Engineering News-Record* Magazine 2024 Ranking**

AECOM has been ranked in the top two among *Engineering News-Record* magazine's Top 500 Design Firms since 2010 and No. 1 in Transportation since 2001.

Delivering a better world

21. QA/QC Plan:

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

(This page intentionally left blank, as instructed per the RFP)

22. Sub-consultant information:

If one or more sub-consultants will be used, provide the name, address, point of contact and phone number for each. Otherwise, leave this section blank.

Firm Name (Name must match as registered with Louisiana's Secretary of State)	Address	Point of Contact and Email Address	Phone Number
Huval and Associates, Inc.	922 West Pont Des Mouton Rd. Lafayette, LA 70507	Colby Guidry, PE cguidry@huvalassoc.com	337.234.3798
Consor Engineers, LLC	110 West Airline Drive, Suite F Kenner, Louisiana 70062	Michael Dukes, PE mdukes@consoreng.com	405.757.2351
KPFF, Inc.	450 Laurel Street, 8th Floor Baton Rouge, LA 70801	Chris Ligozio, PE, SE, Associate chris.ligozio@kpff.com	D 585.465.5092 M 773.805.2103
KTA-Tator, Inc.	145 Enterprise Drive Pittsburgh, PA 15275	Robert Lanterman rlanterman@kta.com	412.722.0745
T. Baker Smith, LLC	402 South Van Avenue Houma, LA 70363	TJ Stokes, PE tj.stokes@tbsmith.com	985.302.0728
GOTECH, Inc.	8383 Bluebonnet Boulevard Baton Rouge, LA 70810	Rhaoul A. Guillaume, Sr., P.E., F.ASCE rhaoul@gotech-inc.com	225.766.5358
Vectura Consulting Services, LLC	4467 Bluebonnet Blvd, Suite A, Baton Rouge, LA 70809	Sheelagh Brin Ferlito; bferlito@vecturacs.com	225.223.6685

23. Location:

If location is an evaluation criterion for this advertisement and the prime consultant intends to establish a local presence, describe the plan for doing so. Otherwise, leave this section blank. Any information included in this section will be redacted if not required by the advertisement.

(This page intentionally left blank, as instructed per the RFP)

About AECOM

AECOM is the world's trusted infrastructure consulting firm, delivering professional services throughout the project lifecycle – from advisory, planning, design and engineering to program and construction management. On projects spanning transportation, buildings, water, new energy, and the environment, our public- and private-sector clients trust us to solve their most complex challenges. Our teams are driven by a common purpose to deliver a better world through our unrivaled technical and digital expertise, a culture of equity, diversity and inclusion, and a commitment to environmental, social and governance priorities. AECOM is a Fortune 500 firm and its Professional Services business had revenue of $14.4 billion in fiscal year 2023. See how we are delivering sustainable legacies for generations to come at aecom.com and @AECOM.

aecom.com