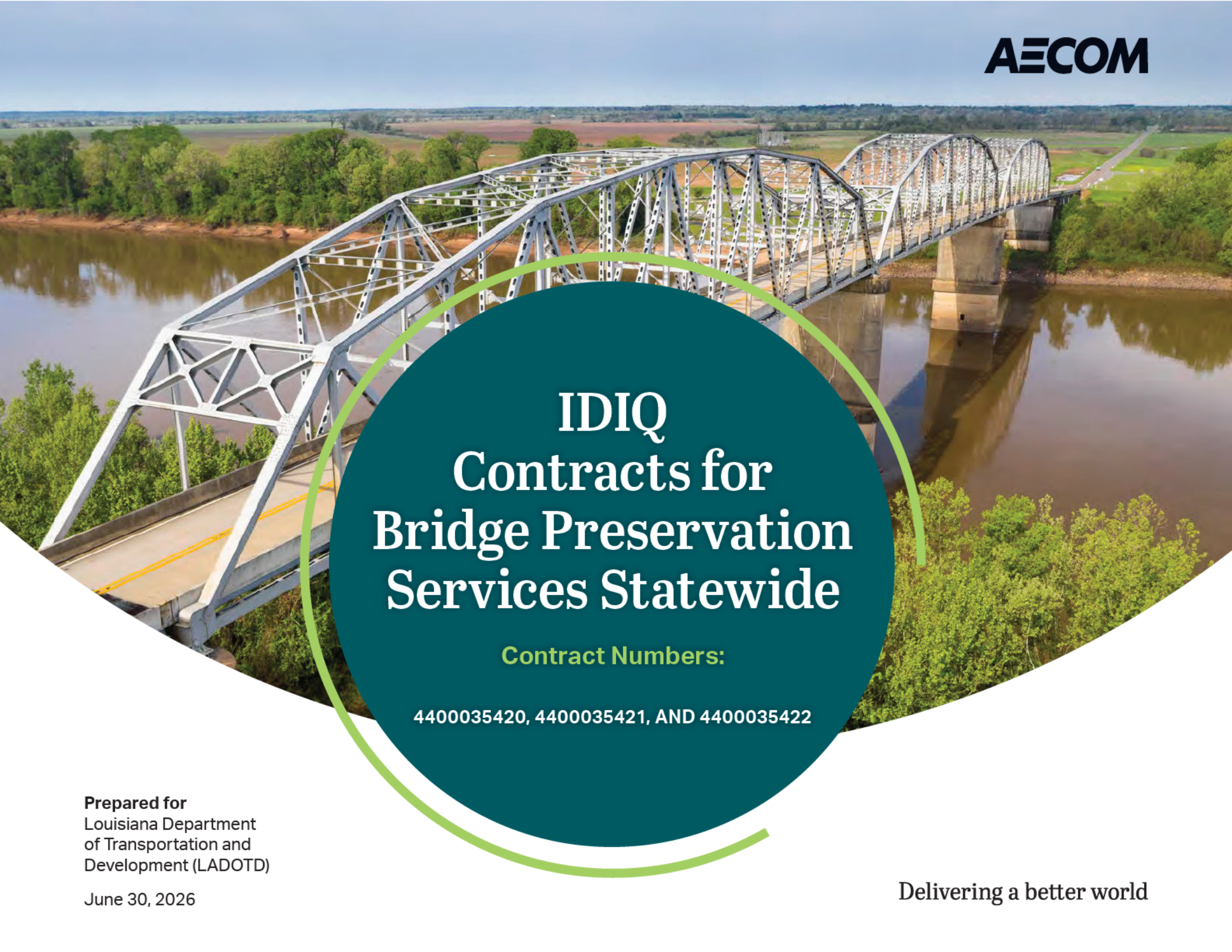




IDIQ Contracts for Bridge Preservation Services Statewide

Contract Numbers:

4400035420, 4400035421, AND 4400035422

Prepared for
Louisiana Department
of Transportation and
Development (LADOTD)

June 30, 2026

Delivering a better world

June 30, 2026

Louisiana Department of Transportation and Development (LADOTD)
Attn: Brian Allen
DOTD Contract Manager
1201 Capitol Access Road, Room 405-E
Baton Rouge, LA 70802

**RE: IDIQ CONTRACTS FOR BRIDGE PRESERVATION STATEWIDE
CONTRACT NOS. 4400035420, 4400035421, AND 4400035422**

Dear Mr. Allen and Members of the Project Evaluation Team:

Over the past few years, LADOTD has made significant progress in reducing the number of bridges needing repair and structurally deficient (SD) bridges, lowering the total from approximately 3,231 in FY21 to 2,997 projected in FY25. Of the 1,423 SD bridges identified, nearly half are located on rural local roads. In fact, rural major/minor collectors and local roads account for approximately 70% of the SD bridge inventory. To address these challenges, LADOTD has leveraged approximately \$876.3 million in IJA funding, committing \$322.3 million specifically to the repair and replacement of these critical structures. Additionally, LADOTD's Enhanced Bridge Replacement Program Initiative is helping reduce the number of closed and posted bridges, identify flexible and cost-effective project delivery methods, and expand design and construction capacity through collaboration with the consultant and contractor community.

AECOM understands the urgency and complexity of LADOTD's bridge infrastructure needs and is well-positioned to support these efforts. With deep experience in bridge design, asset management, and innovative delivery solutions, AECOM has the technical expertise and resources to provide immediate and effective assistance. We are committed to partnering with LADOTD to advance its infrastructure goals—supporting ongoing maintenance strategies, accelerating project delivery, and ultimately improving safety and mobility across Louisiana's transportation network. **In response to this RFP and LADOTD's ongoing needs for design support for IDIQ task order contracts, AECOM offers the following benefits:**

 Preventative Bridge Design Experts	Over the past 30+ years, AECOM staff and our teaming partners have completed thousands of bridge repair/rehab projects throughout the country! We have been leveraging this experience by providing bridge design and rehabilitation services on nine LADOTD Bridge Preventative Services IDIQ task orders including: LA 10 Bridge over Bayou Carron, LA 641 Bridge Repairs over I-10, LA 6 Bridge Deck Repairs and LA 3032 Bridge Resurfacing over Red River.
 Responsive/ Proven Capacity	We have integrated our local and national staff on several LADOTD task orders and have partnered with Forte & Tablata, WJ&E, T. Baker Smith and others to increase our state and regional capacity. Note AECOM recently performed an emergency bridge inspection, prepared a conditions summary, and developed short and long-term bridge repairs for the LA 315 Bayou DeLarge Bascule Bridge on a fast-track schedule.
 Full-Service/ Flexible Team	AECOM provides a full-service, multi-disciplinary team able to respond to any LADOTD bridge preventative services task order. We are currently supporting LADOTD's Movable Bridge Inspection and Bridge Rehabilitation Contract providing inspection, evaluation, load ratings, and repair strategies for five movable bridges in Southern Louisiana.

AECOM has been successfully operating in Louisiana for nearly a half century and has a long-standing relation with LADOTD providing Transportation and Bridge Design services. **Our team is supporting LADOTD's Bridge Division providing bridge design, rehabilitation and conditional assessment services on the LADOTD Bridge Preventative Services IDIQ Contract, Complex Bridge Inspection IDIQ, Moveable Bridges Contract, and the Load Rating IDIQ.** AECOM has nearly 200 employees in Louisiana between our Baton Rouge and New Orleans offices including Roadway, Bridge and Traffic Engineers as well as Planning and Environmental Professionals. Our local transportation staff is well integrated with our regional and national transportation professionals and experts and will bring the required capacity to support LADOTD with their bridge design and rehabilitation projects needs.



We have confirmed all subconsultant partners from our current LADOTD Bridge Preservation IDIQ will be assisting in meeting the expanded scope of services and delivering this project to LADOTD. Our consultant partners include:

Ardaman & Associates, Inc.	Geotechnical
Bridge Diagnostics, Inc.	Material Testing and Bridge NDT
Consor North America, Inc.	Underwater Inspection and Imaging
Forte & Tablada, Inc.	Topographic Survey, 3D Laser Imaging, Bridge & Roadway Design
KPFF, Inc. dba KPFF Consulting Engineers	Materials Testing (ANSI L3)
Marrero, Couvillon & Associates, L.L.C. (DBE)	Lighting and MEP for Bridge Operator's House
T. Baker Smith, LLC	Typographic & Hydrographic Surveying, Right-of-Way (ROW) Design, Sub-Surface Utility Investigations, Environmental, & Roadway
Vectura Consulting Services, LLC (DBE)	Traffic Engineering and Maintenance of Traffic
Wiss, Janney, Elstner Associates, Inc.	Movable Bridge Inspection, Mechanical, Electrical, Structural Design; SSPC Coating Assessments and Non-Destructive Testing Support

As both Contract and Project Manager, I will continue to be the point of contact for this DOTD Bridge Preventative IDIQ contract. **I have more than 30+ years of bridge design and IDIQ preservation experience and am 100% committed to supporting this important LADOTD bridge IDIQ contract.** Note that I will have full support of the AECOM Team to deliver quality designs to LADOTD for this Bridge Preservation Services IDIQ Contract, while successfully meeting the contract challenges and exceeding the requirements of LADOTD.

The AECOM Team is committed to delivering a quality design to LADOTD for the Bridge Preservation IDIQ Contract, while successfully meeting the contract challenges and exceeding the requirements of LADOTD. If you have any questions, please contact me directly at 303-941-4962, or via email at gary.maji@aecom.com.

Sincerely,

AECOM Technical Services, Inc.

Gary Maji, PE
DOTD Bridge Preventative Services
IDIQ Consultant Manager
Vice-President

Jonathan McDowell, PE
Associate Vice President

Sections

01-13

**In-dept NBIS inspection
of Complex Bridges,
LADOTD**

**Relevance to LADOTD Bridge
Preventative Services IDIQ:**

Bridge Inspection, Condition
Assessment/Load Rating,
Preventative Maintenance and
Repair



**Bridge 003412 - LA
315 over Bayou
Dularge**
(Steel Girder
Bascule Bridge)



**Bridge 033730 - LA
82 over Superior
Canal**
(Steel Pony Truss
Swing Span Bridge)



**Bridge 059482 - LA
22 over Tchefuncte
River**
(Steel Girder Swing
Span Bridge)

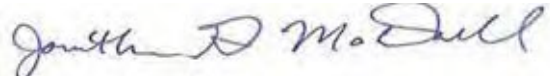
DOTD FORM: 24-102

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 Contracts for Bridge Preservation Statewide
2. Contract Number(s) as shown in the advertisement	Contract Nos. 4400035420, 4400035421, AND 4400035422
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name (name must match exactly as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)	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	Gary Maji, PE, Associate Vice President 303.941.4962 gary.maji@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

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 (shall be the same person as #9):  ----- Date: June 30, 2026
11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.	N/A

12. Discipline Table:

Discipline(s)	% of Overall Contract	AECOM Technical Services, Inc.	Forte & Tablada, Inc.	T. Baker Smith, LLC	Ardaman & Associates, Inc.	Wiss, Janney, Elstner Associates, Inc.	Vectura Consulting Services, LLC	Marrero, Couvillon & Associates, L.L.C.	Conсор North America, Inc.	KPFF, Inc.	Bridge Diagnostics, Inc.	Totals
Road	20.0%	65.0%	20.0%	15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Bridge	54.5%	82.5%	8.0%	0.0%	0.0%	7.5%	0.0%	0.0%	2.0%	0.0%	0.0%	100%
Traffic	5.0%	55.0%	0.0%	0.0%	0.0%	0.0%	45.0%	0.0%	0.0%	0.0%	0.0%	100%
Geotech	5.5%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Survey	6.0%	0.0%	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Environmental	5.0%	77.5%	0.0%	22.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Other (Instrumentation)	1.5%	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	35.0%	25.0%	100%
Other (SUE)	1.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%
Other (Lighting)	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	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%	65.2%	11.4%	8.1%	5.5%	4.1%	2.2%	1.5%	1.1%	0.5%	0.4%	100%

13. Team Size:

Firm Name	DOTD Job Classification	Number of Personnel Committed to this Contract	Total number of personnel available in this DOTD Job Classification (if needed)
AECOM Technical Services, Inc.	Principal	1	3
	Supervisor-Eng	6	10
	Supervisor-Other	2	8
	Engineer	12	16
	Engineer Intern	4	8
	Engineer-Other	8	10
	Environmental Manager	1	3
	Environmental Pro	2	3
	Historian	2	3
	Archeologist	3	4
	Administrative	1	3
	Senior Technician	2	6
Ardaman & Associates, Inc.	Administrative	1	1
	CADD Technician	2	2
	Clerical	1	2
	Engineer	1	6
	Engineer Intern	3	6
	Principal	2	3
	Senior Technician	8	9
	Supervisor - Eng	3	3
	Supervisor - Other	3	4
	Technician	11	15

Bridge Diagnostics, Inc.	Accountant	2	3
	Administrative	1	1
	Computer Analyst	2	2
	Engineering- Aide	3	3
	Engineer Intern	3	3
	Engineer	3	8
	Engineer- Other	3	3
	Principal	3	7
	Senior Technician	1	2
	Supervisor - Eng	2	4
	Supervisor - Other	4	4
	Technician	2	2
Conzor North America, Inc.	Other (Engineer-Diver)	4	12
	Inspector-Bridge	3	5
Forte & Tablada, Inc.	Principal	1	2
	Surveyor	2	4
	Party Chief	2	4
	Instrument Man	2	2
	Technician	1	1
	Senior Technician	1	2
	Supervisor - Eng	1	1
	Engineer	1	1
	CADD Technician	2	4
	Clerical	1	1
KPFF, Inc.	Inspector – Bridge	2	6
	Engineer – Other	2	6
	Principal	1	2
	Inspector	2	4

Marrero, Couvillon & Associates, LLC	Supervisor-Eng	1	1
	Engineer	1	6
T. Baker Smith, LLC	Environmental Manager	1	2
	Environmental Pro	2	3
	Surveyor	3	3
	Senior Technician	1	4
Vectura Consulting, LLC	Supervisor - Eng	2	2
	Engineer	3	5
	Engineer Intern	2	2
	Inspector	0	2
	Supervisor – Other	1	1
	Clerical	1	1
Wiss, Janney, Elstner & Associates, Inc.	CADD Technician	2	7
	Clerical	4	5
	Engineer Intern	2	6
	Engineer	1	3
	Engineer - Other	3	15
	Geologist	1	2
	Principal	6	30
	Professional	4	20
	Senior Technician	2	10
	Supervisor - Architect	0	1
	Supervisor - Eng	2	10
	Supervisor - Other	6	30
	Technician	2	9
	Inspector - Bridge	0	1

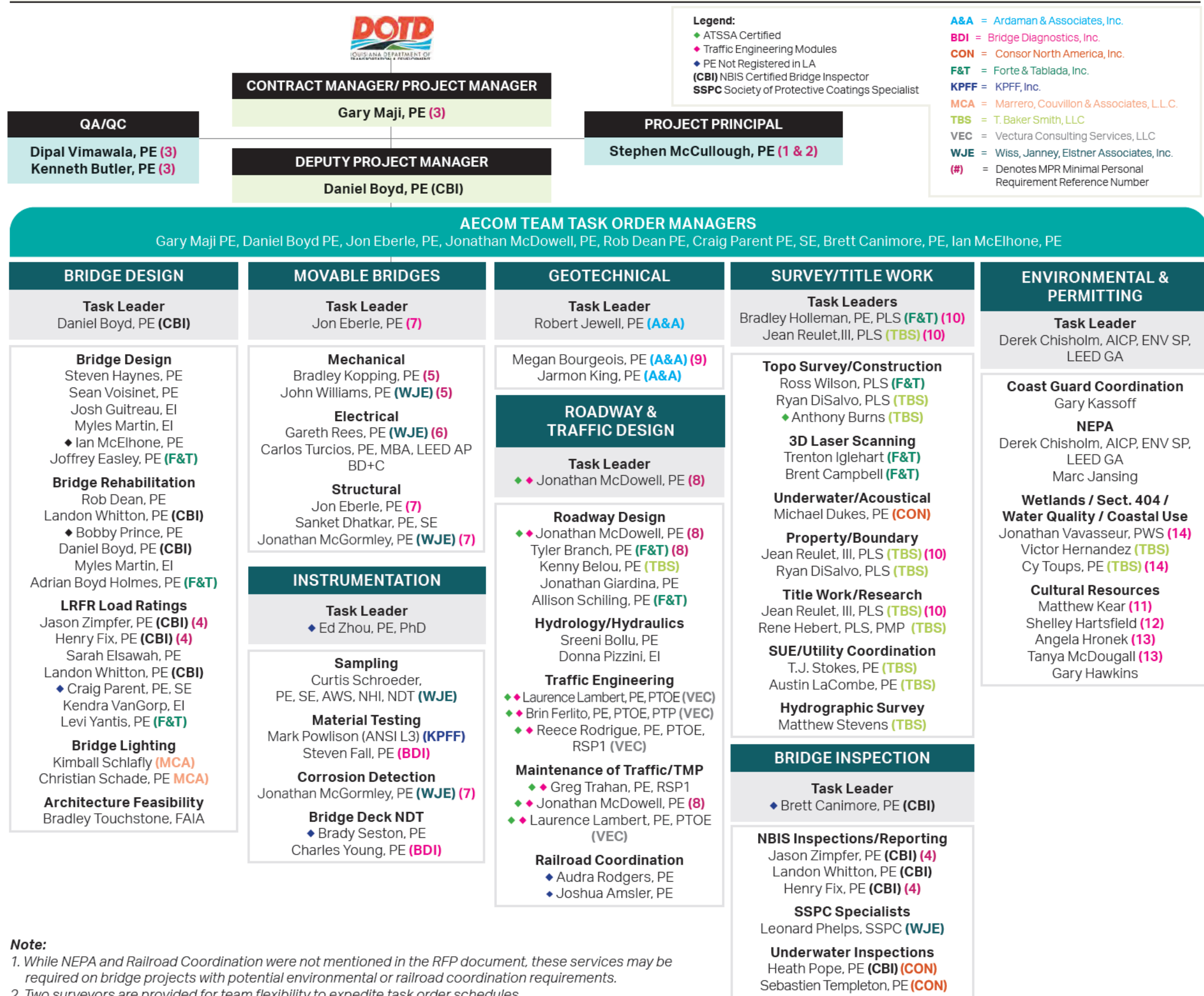
Sections 14-16

LA 6 Grand Ecore Bridge Deck Repairs, LADOTD

**Relevance to LADOTD Bridge
Preventative Services IDIQ:**
Bridge Rehabilitation, Preventative
Maintenance and Repair, and
Condition Assessment/Load Rating



14. Organizational Chart



AECOM Value-Added Staff

This AECOM team has a recent history of performing quality work for DOTD and our other transportation clients. Our contract and task order project managers listen and respond effectively to our client leads so project deliverables are provided on schedule and within the budgetary requirements. Read below on what our clients have said about our this AECOM team.

"AECOM demonstrated strong coordination throughout the project and was responsive to DOTD requirements and procedures." - **Dana Feng, PE DOTD PM LA 561**

"AECOM demonstrated strong technical accuracy throughout the project, producing deliverables that were consistent with applicable design standards and project requirements." - **Dana Feng, PE, DOTD PM LA 10**

"AECOM's performance is top notch in regards to the plan development process, communicating questions, and being prompt in requesting for information." - **James Fogleman, DOTD PM, Bridge Bundling (11 sites)**

"They 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 Design Engineer Administrator**

"AECOM were very responsive, provide accurate advice, and ensure deadlines have been met to ensure project stays on track." - **Fallon Faber, PE, DOTD PM, LA 86 (Movable Bridges)**

"AECOM did well with plan development. During the entire task order and plan development process working with this consultant went smoothly." - **Phillip Grasso, PE, DOTD PM, LA 641**



We are bringing back all our subconsultant partners from our current Bridge Preservation IDIQ contract so we can continue to provide responsive and multi-disciplinary engineering services throughout the state. The AECOM team offices are regionally located so we can quickly and efficiently mobilize to any DOTD project.

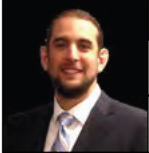
15. Minimum Personnel Requirements

MPR No.	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number	State of license	License/certification expiration date
1.	Stephen McCullough, PE	AECOM Technical Services, Inc.	Civil Engineer PE 50503	LA	03.31.2028
2.	Stephen McCullough, PE	AECOM Technical Services, Inc.	Civil Engineer PE 50503	LA	03.31.2028
3.	Dipal Vimawala, PE	AECOM Technical Services, Inc.	Civil Engineer PE 38000	LA	09.30.2027
	Kenneth Butler, PE	AECOM Technical Services, Inc.	Civil Engineer PE 31476	LA	03.31.2027
	Gary Maji, PE	AECOM Technical Services, Inc.	Civil Engineer PE 43044	LA	03.31.2027
4.	Jason Zimpfer, PE	AECOM Technical Services, Inc.	Civil Engineer PE 45922	LA	03.31.2028
	Henry Fix, PE, CBI	AECOM Technical Services, Inc.	Civil Engineer PE 38224	LA	03.31.2028
5.	Bradley Kopping, PE	AECOM Technical Services, Inc.	Mechanical Engineer PE 39581	LA	09.30.2027
	John Williams, PE	Wiss, Janney, Elstner & Associates	Mechanical Engineer PE 44300	LA	09.30.2026
6.	Gareth Rees, PE	Wiss, Janney, Elstner & Associates	Electrical and Computer Engineer PE 40754	LA	09.30.2026
7.	Jon Eberle, PE	AECOM Technical Services, Inc.	Civil Engineer PE 51485	LA	09.30.2026
	Jonathan McGormley, PE	Wiss, Janney, Elstner & Associates	Civil Engineer PE 43912	LA	03.31.2028
8.	Jonathan McDowell, PE	AECOM Technical Services, Inc.	Civil Engineer PE 30508	LA	03.31.2027
	Tyler Branch, PE	Forte & Tablada, Inc.	Civil Engineer PE 41576	LA	09.30.2027

15. Minimum Personnel Requirements

9.	Megan Bourgeois, PE	Ardaman & Associates, Inc.	Civil Engineer PE 36725	LA	03.31.2028
10.	Bradley Holleman, PLS, PE	Forte & Tablada, Inc.	PLS 5082; Civil Engineer PE 47165	LA	09.30.2026; 03.31.2027
	Jean Reulet, III, PLS	T. Baker Smith, LLC	PLS# 5145	LA	03.31.2028
11.	Matthew Kear	AECOM Technical Services, Inc.	Section 106 Course (ACHP)	N/A	N/A
12.	Shelley Hartsfield	AECOM Technical Services, Inc.	N/A	N/A	N/A
13.	Angela Hronek	AECOM Technical Services, Inc.	N/A	N/A	N/A
	Tanya McDougall	AECOM Technical Services, Inc.	N/A	N/A	N/A
14.	Jonathan Vavasseur, PWS	AECOM Technical Services, Inc.	N/A	N/A	N/A
	Cy Toups, PE	T. Baker Smith, LLC	N/A	N/A	N/A

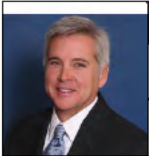
16. Staff Experience

	Firm	AECOM Technical Services, Inc.		
	Name	Stephen McCullough, PE	Years of Relevant Experience with this Employer	16
	Title	VP, Surface Transportation Deputy Division Manager	Years of Relevant Experience with Other Employer(s)	3
Degree(s)/Years/Specialization		ME/2010/Structural Engineering; BS/2006/Civil Engineering		
Active Registration Number/State/Expiration Date		PE50503/LA/03.31.2028 Additional active licenses in AR, TX		
Year Registered	2011	Discipline	Civil Engineer	
Contract Role(s)/Brief Description of Responsibilities		Project Principal. Stephen brings over 19 years of structural engineering expertise in the transportation sector, specializing in bridge design, structural leadership, and quality management for both large alternative delivery programs and smaller PS&E projects. He has held senior technical and quality-focused roles on major transportation initiatives across Texas and the U.S., ensuring design accuracy, constructability, and compliance with standards. Stephen has led multidisciplinary teams across Texas, the U.S., Canada, and Europe, overseeing complex designs while upholding rigorous QA/QC standards. He is highly proficient in AASHTO LRFD, AREMA, ACI, and AISC standards, integrating these into project-wide quality processes. As Structural Discipline Lead and Engineer of Record, Stephen managed the delivery of dozens of bridge structures on major projects like the Southeast Connector (Fort Worth) and LBJ East (Dallas), including complex designs such as multi-level connectors, post-tensioned straddle bents, and wide underpasses. On the I-35 Northeast Expansion (NEX) South project, he led a team of 10–15 verifiers, overseeing quality checks for 3,000+ structural drawings and calculations, ensuring compliance and successful delivery of 300+ bridge spans. Stephen's expertise in design leadership, technical verification, and interdisciplinary coordination positions him as a strong leader in delivering high-quality transportation infrastructure projects. Stephen meets MPRs 1 & 2.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
09/23-Present	TxDOT, I-35 NEX (Northeast Expansion) Design Build Project, San Antonio, TX. Lead Verifier. Stephen McCullough served as Lead Verifier for bridges and retaining walls on the I-35 Northeast Expansion (NEX) Design-Build project, a 4.5-mile corridor expansion featuring elevated lanes, two direct connectors, and over 300 spans of prestressed concrete girders supported by diverse substructures, including hammerhead, multi-column, and offset C-bents. He collaborated with the contractor and owner to develop innovative precast concrete columns and bent caps, enhancing constructability and schedule efficiency. In his quality leadership role, Stephen implemented and managed the quality process for all bridge and retaining wall designs, directing a team of 10–15 Deputy Lead Verifiers across the U.S. He developed workflows and procedures for the Lead Verifier process, ensuring compliance with the project's Design Quality Management Plan (DQMP). Under his leadership, thousands of structural drawings and calculations were reviewed to meet project standards, technical requirements, and contractual quality expectations, playing a critical role in the successful delivery of this complex infrastructure project.			

01/18-06/18	Louisiana DOTD, Red River Bridge at Jimmie Davis Highway, Bossier and Caddo Parishes, LA. Structural Engineer. Stephen performed in depth structural evaluation of the proposed Jimmie Davis bridges superstructure components including the longitudinal stringers and transverse floor beams and bridge slab. This project included an evaluation of two alternatives; (1) a traditional slab and stringer styler superstructure, and (2) a truss superstructure with floor beams supporting the cast in place slab deck. In addition to the structural analysis for both these options, Stephen performed cost estimates to provide DOTD for the structure crossing the Red River. The Red River Bridge transverse floor beams consisted of ASTM Grade 50W built-up steel plate girders spanning between built-up steel plate girders for the longitudinal stringers. The superstructure supported a cast-in-place reinforced concrete deck slab of 9-in and 10-in for the overhangs. The substructure and foundations comprised of Class S cast-in-place reinforced concrete bent caps, columns, and deep foundations. Stephen designed and evaluated these steel structures using STAAD Pro in combination with Excel and MathCAD developed design tools to verify the results of the evaluation.
12/21-Present	TxDOT, Southeast Connector Design Build Project, Fort Worth, TX. Structural Discipline Lead and Engineer of Record. Stephen served the role of Structural Discipline Lead for the delivery phase of the Southeast Connector Design Build Project. Stephen led the structural coordination for plan and calculation development for all structures on the project. Stephen led the coordinated design effort of more than 120 structural engineering and structural CADD staff members. On the SEC project, Stehen led the design and coordinated tasks of all the structures including post-tensioned straddle bents, highly skewed bents, wide underpass structures, live water creek crossings, widenings, four UPRR rail overpasses, and several underpass structures with complex deck geometry. Stephen closely coordinated the design of the four UPRR crossing between the contractor, design team, and the UPRR reviewers. For these four bridges Stephen closely coordinated the bridge staging, construction sequencing, and plan development, including general notes to ensure that compliance with both TxDOT and UPRR requirements were met. Stephen led the design for all pre-stressed concrete and steel girder superstructures on the project as well as the design for all substructure and foundations on the project.
12/19-Present	TxDOT, LBJ East Design Build Project, Dallas, TX. Structural Discipline Lead and Engineer of Record. Stephen served the role as both office structural leader and structural discipline lead for the LBJ East Design Build Project in Dallas, TX. Stephen led the design effort for the proposal, working closely with the joint venture contractor innovating and incorporating alternative technical concepts for every structural aspect of the project corridor. Stephen led the design effort for the I-30/I-635 interchange during the proposal and designed prestressed concrete girder, built-up steel plate girders, post-tensioned straddle bents, single column and multi column reinforced concrete substructure and foundations. Bridge types included creek crossing, four stack multi-level direct connectors, wide underpass structures, long viaducts, bridge widenings, and intersection stack flips. The interchange included 8 direct connectors, 5 underpass bridges, and 2 overpass bridges. The 2 underpass bridges were designed for future expansion of the I-20 mainlanes. Stepen worked closely with the traffic control group to effectively create a constructible design for the entire project. During design delivery Stephen served as discipline leading all structural design elements of the project. Stephen led a robust team comprising 18 teams spread across the United States, and Europe to deliver construction plans to the contractor for 61 bridges. Stephen's primary role was to lead all 18 structure teams, technically, through the project delivery process.
01/2017-12/2017	MDOT, SR 57 Mississippi Red creek Bridge Replacement, Perkinston, MS. Structural Designer. Stephen led the design for the substructure and foundation design for a 472.25' long spliced drop-in girder bridge over the Red Creek near Perkinston Mississippi. Stephen designed the foundation system which included cast-in-place bridge abutment caps and cast-in-place bent caps that supported the spliced girders. Stephen designed the foundation system which included straight and battered H-Pile abutment systems as well as cast-in-placed bored piles for the interior bents. Red Creek soil conditions provided a unique opportunity to overcome several foundation challenges.

	Firm	AECOM Technical Services, Inc.			
	Name	Dipal Vimawala, PE		Years of Relevant Experience with this Employer	23
	Title	QA/QC- Technical Advisor		Years of Relevant Experience with Other Employer(s)	9
Degree(s)/Years/Specialization		MS/1993/Structural Engineering BS/1990/Civil Engineering			
Active Registration Number/State/ Expiration Date		PE#38000/LA/09.30.2027 Additional active licenses: WI, OH, MO, MN, KY, IN, IL, IA			
Year Registered	1991	Discipline	Strutural Engineering		
Contract Role(s)/Brief Description of Responsibilities		QA/QC - Technical Advisor (Bridge). Dipal has extensive experience in project management, structural analysis, and design, and in quality control reviews. His experience includes traditional design-bid-build and design-build projects involving major interchanges, highway and railway structures, moveable bridges, grade separations, transit facilities, and industrial facilities. Mr. Vimawala also has practical experience with constructibility reviews and construction management. As manager of the Bridge Design group for the central region of AECOM, his primary responsibilities include project coordination within various offices, leading technical activities, staff supervision and training, coordination between various design disciplines, and supervision of contract documents preparation. Dipal meets MPR 3.			
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
06/18–Ongoing	Windsor-Detroit Bridge Authority, Gordie Howe International Bridge Project, Detroit, MI. Dipal served as Project Structural Engineer and Engineer of Record in responsible charge of structural design for the Michigan Interchange. The interchange includes three miles of expressway reconstruction, four highway bridges, five pedestrian crossings, and complex connecting ramps. Fixed bridge design experience includes curved steel girder flyover bridges, conventional concrete structures over railroads, and load transfer platforms over poor soils for a major international cable-stayed crossing.				
05/08–12/13	Chicago DOT, Wells Street Bascule Bridge Rehabilitation, Chicago, IL. Dipal served as Project Manager and Lead Structural Engineer in responsible charge of bridge design, final construction documents, and structural rehabilitation recommendations for a complex double-leaf, trunnion-style, double-deck bascule bridge . The project included inspection, condition report, Phase I engineering, Phase II final documents, truss rehabilitation/replacement, bascule pit rehabilitation, superstructure framing replacement, shoring tower design, load balancing calculations, and fender/dolphin system design.				
01/12–06/19	Chicago DOT, Cicero Avenue Bascule Bridge Rehabilitation, Chicago, IL. Dipal serves as Project Director in responsible charge of project delivery, structural rehabilitation strategy, and design coordination for a double-leaf, multi-trunnion bascule bridge over the Chicago Sanitary and Ship Canal. The project includes in-depth inspection, complete replacement of superstructure steel framing and floor beams, major rehabilitation of three through trusses, staged construction, and coordination with USCG, SHPO, state agencies, and stakeholders.				
01/12–06/19	Chicago DOT, Division Street Bascule Bridges, Phase I Study and Preliminary Engineering, Chicago, IL. Dipal served as Structural Advisor responsible for preliminary engineering, TS&L development, structural evaluation, and bridge design recommendations for two historic bascule bridges. The work included inspection, condition reports, project development report, Section 106 documentation, staging alternatives, relocation feasibility, and evaluation of signature bridge concepts, including cable-stayed, tied-arch, and thrust arch structures.				

07/21–Ongoing	Chicago DOT, Lake Street Bascule Bridge Rehabilitation, Chicago, IL. Dipal serves as Project Director and Senior Structural Engineer in responsible charge of structural rehabilitation design coordination and final construction document development for a complex double-leaf, double-deck bascule bridge. Scope includes truss replacement/rehabilitation, bascule pit rehabilitation, superstructure framing replacement, mechanical/electrical rehabilitation coordination, and bridge house rehabilitation.
10/20–11/22	Chicago DOT, Grand Avenue Bascule Bridge Rehabilitation, Chicago, IL. Dipal served as Project Director and Structural Advisor in responsible charge of structural rehabilitation strategy and construction engineering support for a bascule bridge in downtown Chicago. The work included rehabilitation of substructure members, main truss elements, diagonals, gusset plates, trunnion supports, load balancing during construction, stakeholder coordination, and design refinements for unforeseen field conditions.
07/21–Ongoing	Chicago DOT, Lake Street Bascule Bridge Rehabilitation, Chicago, IL. Dipal serves as Project Director and Senior Structural Engineer in responsible charge of structural rehabilitation design coordination and final construction document development for a complex double-leaf, trunnion-style, double-deck bascule bridge. The project includes inspection, condition report, Phase I engineering, Phase II final documents, truss replacement/rehabilitation, bascule pit rehabilitation, superstructure framing replacement, and historic bridge house rehabilitation.
06/24–Ongoing	WSDOT SR 520 Portage Bay Project, Seattle, WA. Dipal serves as Lead Verifier responsible for quality reviews and independent technical checks for this \$1.3B corridor upgrade. The project includes two cast-in-place segmental bridges, three pedestrian bridges, 45 retaining walls, temporary construction access bridges, sign structures, foundations, and stormwater facilities. Fixed bridge design experience includes CIP segmental bridges, prestressed girder bridges, CIP slab bridges, and post-tensioned CIP box girder bridges.
03/14–12/20	Illinois DOT, Circle Interchange Project, Chicago, IL. Dipal served as Lead Bridge Engineer responsible for bridge design criteria, technical coordination, and design team direction for the redesign of one of the nation's most congested interchanges. The project included replacement of eight flyover curved ramp bridges and 14 mainline bridges over expressway corridors, with significant agency coordination, aggressive schedules, and multiple construction contracts.
01/04 – 08/09	Chicago DOT, Canadian Pacific Railway Bob-Tail Swing Bridge #Z-2 at Cherry Street, Chicago, IL. Dipal served as Project Manager responsible for contract documents and structural rehabilitation design for this historic horizontal swing bridge over the North Branch Canal. Scope included field inspection, bridge condition report, cantilever pedestrian walkway replacement, significant structural repairs, painting, and shoring tower design to replace critical non-redundant compression truss members.
01/12–12/19	Chicago DOT, 43rd Street Pedestrian Bridge, Chicago, IL. Dipal served as Technical Advisor and Principal in Charge responsible for oversight of bridge concept development and design approach for a 240-foot double-curved steel tube arch pedestrian bridge over Lake Shore Drive and active railroad tracks. Scope included bridge type, cross sections, span arrangements, vibration analysis, constructability reviews, staging, and client coordination.

	Firm AECOM Technical Services, Inc.			
	Name	Kenneth (Ken) Butler, PE	Years of Relevant Experience with this Employer	30
	Title	QA/QC - Technical Advisor	Years of Relevant Experience with Other Employer(s)	12
Degree(s)/Years/Specialization		BS/1984/Civil and Environmental		
Active Registration Number/State/Expiration Date		PE 31476/LA/3.31.2027 Additional active license: PE VA, FL, MD, PA, NC, CA, DC, DE, OH, NY, NCEES/#14422		
Year Registered	1991	Discipline	Civil Engineer	
Contract Role(s)/Brief Description of Responsibilities		QA/QC - Technical Advisor (Bridge). Ken brings 42 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 \$12B in construction cost. He has played significant roles on nine major alternate delivery projects. He has provided designs, project management, construction support and construction engineering inspection services to 14 state agencies, as well as several toll authorities. In 2025 Ken was selected from a worldwide list of distinguished persons to receive the John A. Roebling Medal. This Award recognizes a lifetime achievement in bridge engineering. Ken meets MPR 3.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/23-Ongoing	BSMT (ODOT & KYTC), Brent Spence Bridge Project, OH/KY. Ken is serving as the Design Manager in responsible charge of design management and final work product for this \$4B 6-mile-long highway & bridge project. Project includes a double-decker cable-stayed bridge over the Ohio River; 5-miles of highway and 17 bridges and 23 walls (30,475-ft) in Kentucky; and 1-mile of complex interchanges and 37 bridges and 26 walls (16,250-ft) in Ohio. As Design Manager, Ken is responsible for managing 350 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.			
01/19-12/22	MDTA, Harry W. Nice/Thomas "Mac" Middleton Bridge Replacement Project, MD. Ken served as the Design Manager in responsible charge of design management and final work product for this \$463M Design Build that involved a 1.9-mile long bridge over the Potomac River. Fixed bridge design experience includes major bridge design over a navigable channel, deep foundations, roadway structures, staged construction, and demolition of the existing bridge. 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 was 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 one year 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 in responsible charge of bridge rehabilitation design and final work product for this historic arch bridge rehabilitation project over the Potomac River. Fixed bridge design experience includes historic arch bridge rehabilitation, complete re-decking with precast concrete deck panels using stainless steel reinforcing, complete replacement of interior arch supports, and replacement of the central bascule span with 280-foot-long fixed steel girder spans. 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.			

08/17-01/22	DDOT, Frederick Douglass Memorial Bridge Project, Washington DC. Design Manager in responsible charge of design management and final work product for this \$449M signature bridge project over the Anacostia River. Fixed bridge design experience includes a 1,445-foot-long signature bridge comprised of three springing cable-stayed arch spans supported by cable stays. 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 included 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 had 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.
03/17-Ongoing	VDOT, Rte 3 Robert Norris Bridge over Rappahannock River, Whitestone, VA. Chief Bridge Engineer responsible for conceptual design and cost estimates (Environmental Assessment, Preliminary Engineering) for replacing this 10,200-foot-long bridge. Fixed bridge design experience includes conceptual design for a long-span river crossing with a 400-foot channel span providing a 110-foot vertical and 300-foot horizontal navigational envelope. Deep water up to 60 feet and 200-foot deep foundations resulting from poor subsurface conditions contributed to the estimated \$400M project cost.
06/14 – 06/18 (Bridge Lead) 06/18 – 08/19 (QA Lead)	LADOTD (H.004273) I-49 Connector, Lafayette, LA. Bridge Design Lead in responsible charge for bridge design during the Environmental Assessment, SEIS, preliminary design, and final design phases for this 3.5-mile-long elevated urban viaduct. Fixed bridge design experience includes elevated precast segmental and prestressed concrete U-girder viaducts , four flyover connector ramps, three multi-level interchanges, two elevated SPU's with signature bridge elements including arches and cable-stayed features, eleven overpass structures, three railroad bridges, and 27,000 feet of retaining wall. Ken later served as QA Lead.
01/14 – 12/20	City of Edmonton, Tawatina Bridge on Valley Line SE, Edmonton LRT, Alberta Canada. Technical advisor responsible for reviewing the base design and performance specifications for this concrete segmental extradosed cable-stayed bridge. Fixed bridge design experience includes technical advisory support for a 1,248-foot-long concrete segmental extradosed cable-stayed bridge over the North Saskatchewan River, including 290 feet of cable-stayed spans. His role included supporting the owner during technical proposal reviews and bid selection and providing technical input during construction.
01/11 – 08/14	LADOTD, No. 700-92-0016, Florida Avenue Bridge, New Orleans, LA. Bridge Lead responsible for directing preliminary and final design efforts for the \$100M, 1,500-foot-long, five-span main unit crossing the Inner Harbor Navigation Canal. Fixed bridge design experience includes a 470-foot main span over the canal with 156-foot vertical and 300-foot horizontal navigational clearances, steel plate girder and cast-in-place variable-depth concrete box girder alternates, high-level approaches using prestressed concrete bulb-T girders, and curved steel girder interchange ramps. The overall project consisted of approximately two miles of elevated structure.
08/18-Ongoing	Windsor-Detroit Bridge Authority, Gordie Howe International Bridge Design-Build-Operate-Maintain Project, Detroit, Michigan and Windsor, Ontario. Ken served as AECOM's Complex Bridge Practice, Chief Bridge Engineer during the tender phase and final design of this project providing strategic teaming, design organization and resources, and then serving in a technical advisory role. As AECOM's Global Director of the Complex Bridge Practice, he continues to provide these same services during the construction of this \$5.7B cable-stayed crossing. Fixed bridge design experience includes technical advisory and complex bridge design support for a major international cable-stayed crossing with a span configuration of 1,230 feet–2,798 feet–1,155 feet. The 2798-ft main span will be the longest steel edge girder and floor beam cable-stay bridge in North America.

	Firm	AECOM Technical Services, Inc.			
	Name	Gary Maji, PE		Years of Relevant Experience with this Employer	27
	Title	Project Manager		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/03.31.2027 Additional active license: CO and UT			
Year Registered	2018	Discipline	Civil Engineer		
Contract Role(s)/Brief Description of Responsibilities		Project Manager 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 is currently serving as AECOM's Contract and Project Manager for DOTD's Bridge Preventative IDIQ Contract. 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 right-of-way/surveying, environmental, and utility coordination throughout project development. His experience includes the design and preparation of steel and concrete girder bridge plans, project special provisions and project cost estimates formatted in accordance with capital project guidelines. Gary meets MPR 3.			
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
04/23-Ongoing	DOTD, Bridge Preventative Maintenance IDIQ, Statewide, LA. Serving as Contract and Project Manager for multiple Task Orders as part of AECOM's ongoing Bridge Preventative IDIQ contract. Responsible for contract and project management duties for LA 561 Bridge over Boeuf River (H.001970), LA Bridge10 over Bayou Carron (H.011993), LA 641 Bridge over I-10 (H.015603), LA 6 Bridge Deck Repairs (H.013832), Smith Road Post Design Services (H.015591), and Bridge Bundling (H.016316 - H.016326). Several projects noted below.				
01/25-09/25	LADOTD (H.015603), LA 641 Bridge over I-10, Gramercy, LA. Project Manager. Responsible for the site assessment, superstructure inspection, and bridge load rating efforts required to prepare bridge girder repair plans, improve the bridge load rating and extend the bridge service life for this 1584-ft, multi-span, pretensioned concrete line girder structure. In April 2023, an over-height equipment trailer impacted a portion of the LA 641 Bridge spanning across the WB lanes of I-10 bridge. The emergency bridge inspection identified damage in Span #10, approximately 31 feet from Bent #11 over the outside WB travel lanes.				
02/23-10/24	LADOTD (H.001970), LA 561 Bridge over Boeuf River, Hebert, LA. Project Manager/Sr Bridge Engineer in responsible charge for the preliminary roadway and pretensioned concrete girder bridge design required for the replacement of an existing 3-span truss bridge over the Boeuf River in Richland and Caldwell Parishes. Gary and the AECOM Team worked integrally with LADOTD project manager, geotechnical, environmental, and district staff to confirm approach roadway, drainage, right-of-way, utility, and bridge requirements to replacement this structurally deficient bridge.				

05/12-Ongoing	CDOT, I-76 Corridor Design and I-76/BNSF RR, Fort Morgan, CO. Project Manager and Structures Task Manager in responsible charge for the 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. As part of the design of the I-76 Bridges over BNSF and Beaver Creek, Gary worked with CDOT and BNSF Railway to managed structural design of multiple concrete and steel girder alternatives for a pair of 700-ft, six-span bridges across multiple railroad tracks.
03/18-Ongoing	LADOTD (H.004273), I-49 Connector, Lafayette, LA. Structure Manager/Sr Bridge Engineer in responsible charge for the conceptual and preliminary design of this 7-mile reconstruction of I-49 through downtown Lafayette, LA. This project includes approximately 20 bridges that span over several interchanges, Vermilion River, BNSF and LDRR 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, and spliced concrete tub girders. Gary led the development and coordination of both conceptual and preliminary railroad submittals for the BNSF and LDRR.
05/20-09/21	El Paso County, South Academy Blvd. over BNSF Rehabilitation, El Paso County, CO. Structure Lead and in responsible charge for the 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 steel fatigue prone details and identified expansion joint and bearing repair and replacement details to extend the bridge design life. Design efforts include railroad coordination per UPRR/BNSF RR Grade Separation Guidelines.
01/22-06/23	Southeast Connector (SEC), TXDOT, Dallas, Texas. Structures Quality Manager. Responsible to assure the design and details associated with (60) sixty bridges and retaining walls located within the SEC project satisfy the technical and quality requirements. Gary supported the development of technical design approach documents, task protocols, and quality documents for the SEC Quality Manual. The \$1.6 billion Southeast Connector Project will rebuild and widen approximately 16 miles of I-20 and I-820.
04/18-09/18	CDOT, SH 59/I-70 Emergency Bridge Replacement (CDOT NPS Contract), Seibert, CO. Quality Manager for the emergency bridge replacement project of the SH59 Bridge over I-70 in eastern Colorado. Gary developed project quality schedules, technical protocols and provided quality audits for this multi-disciplinary, blended-team project bridge and interchange reconstruction project. CMAR contracting enabled CDOT's project team to replace the bridge and bring the interchange geometry to current AASTHO standards re-opening the interchange 76-days after the initial closure.
03/13-05/21	City of Fort Collins, Lemay Avenue over BNSF/Vine Improvements, Fort Collins, CO. Structure Manager/Sr Bridge Engineer in responsible charge for the 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 prestressed concrete girder bridge, 13 rockery retaining walls, and a pedestrian underpass concrete box culvert 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.
05/13-07/15	LADOTD (H.001779), 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.

	Firm	AECOM Technical Services, Inc.			
	Name	Jason Zimpfer, PE		Years of Relevant Experience with this Employer	17
	Title	LRFR Load Ratings/NBIS Inspections/Reporting		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.45922/LA/03.31.2028 Additional active licenses: UT, PA, DE, TX, PR, NJ, CO, FL, MT, RI			
Year Registered	2013	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		LRFR Load Ratings/NBIS Inspections/Reporting. 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 17 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. Jason meets MPR 4.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
02/23 - Ongoing	LADOTD, Contract No. 44-21593 IDIQ for Bridge Load Rating Services, Statewide, LA. Lead Structural Engineer responsible for quality, schedule, budget, technical aspects, and client communication for this ongoing bridge load rating assignment involving more than 120 bridges throughout Louisiana. Bridge rating experience includes superstructure and substructure analysis, influence-based analysis of bent caps and timber piles, and load rating recommendations for mitigation and repair of deficient structures. Developed proprietary calculation tools to support influence-based analysis of bent caps and timber piles.				
08/14 – 09/17	LADOTD, Contract No. 44-2687 State Project No. H.009730.5, US-190 Krotz Springs Atchafalaya Bridge Bearing Repair, LA. Structural Engineer responsible for preliminary and final design for superstructure jacking and repair of nested rocker bearings supporting the free end of a three-span, 1,500-foot-long cantilever through truss. Bridge experience includes structural repair design for a major steel cantilever through truss bridge.				
01/25-Ongoing	LADOTD, Project H.016503 LA 641 Bridge over I-10, St. James Parish, LA. Structural Engineer responsible for evaluating the entire bridge in its as-condition state and preparing a comprehensive load evaluation report. Bridge rating experience includes as-condition load evaluation, post-repair load rating, and as-designed load rating for a damaged prestressed concrete bridge. The bridge was damaged in a 2023 accident that resulted in concrete spalling and exposed, broken strands on three girders. These services were performed within the framework of a multi-year task order contract.				

01/18 – Ongoing	Montana DOT, Load Rating Bridges Term Contracts 2018-2021, 2021-2024, & 2025-2029. Lead Bridge Load Rating Engineer responsible for quality, schedule, budget, technical aspects, and client communication for statewide load rating services performed on an as-needed basis for all of the state's legal loads. Bridge rating experience includes analysis and rating of nearly 1,000 bridges, including 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 software to analyze structures the program is capable of modeling and Midas Civil for 3D FEM analysis when required.
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 bridge load rating efforts for approximately 100 bridges. Bridge rating experience includes load ratings using AASHTOWare Bridge Rating software for steel, reinforced concrete, prestressed concrete, and timber superstructures, as well as timber pile substructures and timber decks. Field-noted deterioration was incorporated into 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 responsible for load rating analysis of twin double-leaf bascule span bridges carrying the NASA Causeway over the Indian River. Bridge rating experience includes movable bridge load rating for double-leaf bascule spans and fixed steel girder approach spans using AASHTOWare Bridge Rating software. Ratings were performed for NASA special transport vehicles and Florida legal vehicles, with analysis considering counterweight loads behind the trunnion and modeling the effects of the live load anchor and center span lock.
05/12 – 12/18	PennDOT - District 5-0, Load Rating Analysis, Carbon, Monroe, and Schuylkill Counties, PA. Lead Structural Engineer responsible for coordinating all load ratings performed under the contract for approximately 150 bridges. Bridge rating experience includes load ratings for deteriorated structures based on NBIS inspections, reporting analysis results to PennDOT, and preparing posting and repair recommendations based on load rating results. Responsibilities also included regular client communication and coordination of rating assignments.
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 responsible for bridge inspections, emergency response inspections, reporting, and load rating recommendations. Bridge rating-related experience includes identifying conditions requiring load rating analysis and coordinating load rating recommendations based on inspection findings. Inspections included safety features, roadway conditions, deck, superstructure, substructure, and scourability, sometimes requiring special equipment and traffic control. Also responsible for organizing field notes, photographs, and maintenance items; preparing technical forms and reports; handling notifications and correspondence with local owners; tracking repair progress; and updating pertinent fields in BMS2.
11/15 – 05/17	Minnesota DOT (MnDOT), Bridge 62090 (High Bridge) Re-Deck Project, MN. Structural Engineer responsible for coordinating load rating efforts for eight approach spans of this curved and splayed steel plate girder bridge using AASHTOWare Bridge Rating software. Bridge rating experience includes QC review of calculations and program inputs for steel plate girder approach spans, as well as coordination of repair recommendations associated with redecking and strengthening of a steel tied-arch structure with curved plate girder approach spans.
01/15-08/15	Utah DOT, Load Rating Analysis, UT. Structural Engineer responsible for checking load rating calculations for more than 20 prestressed and reinforced concrete bridges and culverts using AASHTOWare Bridge Rating software. Bridge rating experience includes prestressed concrete, reinforced concrete, and culvert load rating review. Also assisted in the creation of Utah's load rating policy for bridges without available plans and implemented this policy for several dozen bridge and culvert analyses.

	Firm	AECOM Technical Services, Inc.			
	Name	Henry Fix, PE, CBI		Years of Relevant Experience with this Employer	30
	Title	NBIS Inspections / Reporting / Load Rating		Years of Relevant Experience with Other Employer(s)	8
Degree(s)/Years/Specialization		BSCE / 1987 / Civil Engineering MSCE / 1992 / Structural Engineering			
Active Registration Number/State/Expiration Date		PE 38224 / LA / 03.31.28 Additional active license: AR, AZ, DE, FL, MD, NJ, PA, PR, MT, RI			
Year Registered	N/A	Discipline	N/A		
Contract Role(s)/Brief Description of Responsibilities		NBIS Inspections / Reporting / Load Rating. Henry has substantial analysis and design experience on a wide range of bridge, bridge inspection, highway, and railway projects. He has an extensive background in structural modeling, design, and load rating, utilizing finite element software, including STAAD, GTSTRUDL, and ANSYS. He is also proficient with design and analysis programs including AASHTOWare BrDR, BAR7, BOX, ABUT and LRFD design. An NBIS certified bridge inspector since 1989, Henry has participated in a broad range of bridge inspection activities as an Inspection Team Leader. Training: Bridge Safety Inspector Training, NJDOT, 1988; PennDOT BSITC Certification, 1989; Refresher course 2010-2023, NJDOT Refresher, 2025, FHWA SNBI Training 2024; OSHA Construction Safety Awareness Training, 10-Hour 2006, 30-Hour 2020, Fall Protection Training Program, 2006, 2009, 2021. FHWA-NHI fracture Critical Inspection Techniques for Steel Bridges, 2016. Henry meets MPR 4.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
07/25-Ongoing	LADOTD, Contract No. 44-29684 State Project No. H.009730.5 In-Depth Inspection of Complex Structures, Statewide, LA. Structural Engineer of Record, Inspection Team Leader, and Project Quality Representative for a five-year retainer contract to perform in-depth bridge inspections of assigned complex structures. Assigned bridges include LA 82 over Superior Canal, LA 22 over Tchefuncte River in Madisonville, and the Dularge Bayou Bridge. Work also included emergency repairs to the Dularge Bridge to repair anchorage supports to the towers supporting the bascule spans. Bridge experience includes in-depth inspection and repair support for complex fixed and movable bridge structures, including bascule span support components.				
12/12-06/18	LADOTD, Contract No. 44-2687, State Project No. H.009730.5, In-Depth Inspection of Complex Structures, Statewide, LA. Structural Engineer of Record, Inspection Team Leader, and Project Quality Representative for a four-year retainer contract to perform in-depth bridge inspections of assigned complex structures. Assigned bridges included the Gramercy Bridge, US 190 eastbound and westbound structures over the Atchafalaya River, I-210 Lake Charles Bridge, Louisa Bridge, Vicksburg Bridge, Mississippi River Gulf Outlet Bridge, Miller's Bluff Bridge, Greater New Orleans Bridge, LA 182 Morgan City Bridge, and LA 315 Dularge Bridge. Assigned work also included design to reset the rocker nest truss bearings of the US 190 westbound structure over the Atchafalaya River. Bridge experience includes in-depth inspection of complex fixed and movable bridge structures, including major river crossings, truss bridges, and bascule/movable bridge structures.				

04/06-05/10	Delaware River Port Authority, Walt Whitman Bridge 2006 Biennial Inspection, PA and NJ. Structural Engineer and Inspection Team Leader responsible for inspection and gusset plate load rating tasks . In response to the I-35 bridge collapse, the client requested a load rating and capacity analysis of the gusset plates for the approach deck truss spans of this major structure carrying I-76 over the Delaware River between New Jersey and Pennsylvania. Bridge rating experience includes gusset plate load rating and capacity analysis for approach deck truss spans, performed as part of a full NBIS inspection of a major suspension bridge facility. The inspection included the suspension bridge, approach deck truss spans, girder-floorbeam-stringer spans, multi-girder approach spans, and corridor overpasses.
02/14-02/24	Montana DOT – Statewide Load Rating (Two Contracts), Various Locations, MT. Senior Structural Engineer and Project Quality Representative responsible for structural analysis and project quality of load rating assignments for back-to-back four-year statewide contracts involving approximately 400 bridges. Bridge rating experience includes load rating using AASHTOWare Bridge Rating software for steel, reinforced concrete, prestressed concrete, and timber superstructures. Work also included rating approximately 75 steel trusses, gusset plate analysis, curved girder analysis, and arch structure analysis.
04/16-12/16 04/20-12/21 04/24-01/25	Delaware River Port Authority (DRPA), Betsy Ross 2010 Biennial Inspection, PA and NJ. Deputy Project Manager, Lead Structural Engineer, and Project Safety Coordinator responsible for inspection and load rating of the Betsy Ross Bridge Facility . The contract included a complete rating of all bridges and culverts on the facility, including the main truss bridge, approach truss spans, approach girder spans, numerous overpass structures, and two culverts. Bridge rating experience includes load rating of major truss bridges, approach truss spans, girder spans, overpass structures, and culverts. A final report was prepared that included the load rating analysis, inspection findings, repair recommendations, and SI&A, PONTIS, and BMS updates.
01/14-07/15	Sonoma Marin Area Rail Transit (SMART), Haystack Bridge, Petaluma, CA. Structural Engineer responsible for condition assessment, structural analysis, load capacity evaluation, repair recommendations, and rehabilitation support for the relocation and installation of a Scherzer rolling bascule through truss rail transit bridge. The bridge was disassembled from its location on the Texas Coast and transported to the project site, where it was inspected, analyzed, rehabilitated, and reassembled as a crossing over the Petaluma River. Bridge rating-related experience includes analysis of load capacity for deteriorated members and gusset plates on a movable Scherzer rolling bascule through truss bridge. AECOM served as a subconsultant to Shimmick Construction for the design-build project.

	Firm	AECOM Technical Services, Inc.			
	Name	Bradley Kopping, PE		Years of Relevant Experience with this Employer	10
	Title	Sr. Mechanical Engineer (Movable Bridges)		Years of Relevant Experience with Other Employer(s)	28
Degree(s)/Years/Specialization		BS/1989/Mechanical Engineer			
Active Registration Number/State/Expiration Date		PE.39581/LA/09.30.2027 Additional active licenses: WA, TX, OH, MS, CT, MD, CA, NJ, NY, MN, DE, WI, IN, VA, OR, FL, MA, IL			
Year Registered	2015	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Mechanical (Movable Bridges). 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. Bradley meets MPR 5.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
04/25-Ongoing	LADOTD Movable Bridge Rehabilitation Contract, Multiple Locations, LA. Mechanical Engineer of Record and in responsible charge of the mechanical design portions for a contract including condition inspection, load rating, recommendations for repair/replacement, and design of rehabilitation/new bridge improvements for five movable bridges (H.011969 – Ted Hickey Bascule Span; H.012044 – Grand Lake Pontoon Span; H.011988 – Duperier Bascule Span; H.011973 – Dularge Bascule Span; H.012737 – Bayou Bonfua Swing Span) throughout Louisiana. AECOM was selected for this task, which includes the following structures including approach slabs. Inspections are currently underway for the five structures.				
06/18-Ongoing	Wisconsin DOT, Racine Street Bascule Bridge over the Fox River, Menasha, WI. Senior Mechanical Engineer, Mechanical Engineer of Record and in responsible charge of the complete mechanical system design required for a rolling lift bascule 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 including access stairs designed into the bearing weldments, allowing access over the pinion shafts. Rack and pinion were sized so that only a single rotation of the pinion achieved span motion for reduced contact tooth wear. Produced stamped drawings, Technical Special Provisions, schedule, and cost estimate.				
11/14-Ongoing	Florida DOT District Four, Southern Blvd. (SR80) Bascule Bridge Replacement over Inter-Coastal Waterway, Palm Beach County, FL. Senior Mechanical Engineer, Mechanical Engineer of Record and in responsible charge of the mechanical design portion of the bascule bridge replacement. This included span drive machinery design, writing the FDOT Technical Special Provisions 465, preparing the engineer's cost estimate, and developing the construction schedule.				
04/13-12/18	WisDOT, 1st Street Bridge Rehabilitation, Milwaukee, WI. Senior Mechanical Engineer, Mechanical Engineer of Record and in responsible charge of the mechanical design portion of the movable bridge rehabilitation. This included span drive machinery, span lock machinery, and span support machinery. Responsibilities included developing plans, specifications, and a cost estimate for all mechanical work. Further responsibilities included post-design construction support, including answering RFIs, reviewing contractor submittals, inspecting contractor's field work, and reporting findings to WisDOT representatives.				

10/14-09/17	MassDoT, Bridge Street Bridge Replacement, Chatham, MA. Senior Mechanical Engineer, Mechanical Engineer of Record and in responsible charge of the mechanical design portion of the movable bridge rehabilitation. This included span drive machinery, span support machinery, and span lock machinery design, as well as writing the technical specifications, preparing the engineer's cost estimate, and developing the construction schedule. Further responsibilities included post-design construction support, including answering RFIs, reviewing contractor submittals, inspecting contractor's field work, and reporting findings to MassDOT representatives.
10/20-Ongoing	LADOTD, Lapalco Boulevard Bascule Bridge over the Harvey Canal, New Orleans LA. Mechanical Engineer Reviewer for the State of Louisiana 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.
04/15-12/21	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.
08/15-Ongoing	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 representatives.
04/21-Ongoing	City of Appleton, Bascule Bridges Inspections and Rehabilitations, Appleton, WI. Mechanical Inspection for the City of Appleton Lawe St and Olde Oneida Bascule Bridges. 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.
01/15-05/17	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-Ongoing	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.
06/98-08/06	NYCDOT, Third Avenue Swing over the Harlem River, New York, NY. Mechanical Engineer responsible for performing calculations and design of bridge balance wheels, balance wheel track, gear rack, and hydraulic auxiliary motor and power unit for the \$118.8 million on-line bridge replacement. The project included a temporary bridge and float-in of fully assembled, 350-foot through truss swing span. Total project length is 3,500 feet. The project included in-depth inspection, complete substructure, and superstructure replacement of ramps, 18 approach spans, swing span's mechanical and electrical systems, control house, seismic analysis and design, traffic studies, and complex staged construction. Also wrote specifications for bridge hydraulics.

	Firm	Wiss, Janney, Elstner Associates, Inc.		
	Name	John Williams, PE	Years of Relevant Experience with this Employer	7
	Title	Mechanical Engineer (Movable Bridges)	Years of Relevant Experience with Other Employer(s)	24
Degree(s)/Years/Specialization		BS/1996/Mechanical Engineering		
Active Registration Number/State/Expiration Date		PE.0044300/LA/09.30.2026 Additional active licenses in 14 other states and 5 Canadian Provinces.		
Year Registered	2020	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Mechanical (Movable Bridges). John will serve as Lead Mechanical Engineer responsible for task orders involving movable bridges. John meets MPR 5.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/19-03/24	Danziger Lift Span Bridge, US 90, over the Industrial Canal, New Orleans, LA. Senior Mechanical Engineer for the inspection of portions of the lift span contributing to reported operational issues, an in-depth inspection of the lift bridge machinery systems, and development of repairs to restore the bridge's long-term functionality and reliability. Assisted with the development of a unique monitoring and sensor installation plan, the installation of instrumentation and monitoring equipment, and the creation of a web-accessible reporting platform to evaluate the bridge's operations over an extended period. Lead the development of plans and specifications to address emergency failed pinion bearing repairs. Performed strain gage testing to measure span balance, implemented weight changes and air buffer repairs to improve seating of the span, and determined through testing that the span drive differentials on both towers were not functioning properly, requiring work with the manufacturer to properly adjust the associated clutches.			
03/22 – 12/24	Ports of Toronto, Ship Channel Bridge Rehabilitation, Toronto, ON, Canada. Mechanical Engineer of Record in responsible charge for the mechanical design for the rehabilitation of a historic Strauss bascule span. Movable bridge mechanical design experience includes rehabilitation design of complex span drive machinery, emergency response to a bent shaft failure, temporary repair design, and design of a temporary winch operating system to complete repairs while minimizing impacts to marine navigation. The scope of work included inspection, rehabilitation design, emergency response, and temporary repair design.			
7/19-12/24	Liberty Bridge Rehabilitation, Bay City, MI. Lead Mechanical Engineer and Mechanical Engineer of Record in responsible charge for the mechanical design for the rehabilitation design of all machinery associated with the movable span for this double-leaf trunnion bascule highway bridge . Movable bridge mechanical design experience includes rehabilitation of movable span machinery for a double-leaf trunnion bascule bridge.			
10/14-07/19	St. Peters Canal Swing Bridge Replacement, Cape Breton, NS, Canada: Project Manager and Mechanical Engineer of Record in responsible charge for the mechanical design overseeing the mechanical and hydraulic machinery design for this new hydraulically operated center bearing swing bridge. Responsibilities included design and backchecking of design calculations, plans preparation and detailing, and preparation of contract specifications and construction cost estimates during design. Responsibilities during construction included coordination of a team of mechanical and electrical engineers and inspectors to review and approve construction submittals and provide complete shop and field inspection of all mechanical/ electrical aspects of the rehabilitation project.			

09/16-06/19	Brighton Road Swing Bridge Replacement, Ontario, Canada: Project Manager and Mechanical Engineer of Record in responsible charge for the mechanical design overseeing the mechanical and hydraulic machinery design for this new hydraulically operated center-bearing swing bridge . Movable bridge mechanical design experience includes span drive cylinder brackets, center bearing, eccentric roller end lift machinery, balance wheel system, and centering lock. Design responsibilities included finite element analysis of complex weldments and castings for the span drive cylinder brackets as part of the span drive machinery. Managed a team of engineers providing comprehensive construction services, including shop drawing review, review of installation procedures, shop inspection, site inspection, and witnessing and acceptance of commissioning.
03/10-11/17	Sir Ambrose Shea Lift Bridge Replacement, Placentia, NL, Canada. Project Manager and Mechanical Engineer of Record in responsible charge for the mechanical design responsible for the design of span drive machinery, span lock machinery and span support machinery for a new tower drive vertical lift bridge . Duties included preparation and review of all relevant calculations (sized motor, gear tooth strength calculations, sized brakes, shaft calculations for moment and torsion, sized couplings, designed machinery base plates, sized span lock bars, sized span lock and lockbar actuator, performed fatigue analysis of trunnion shaft, and sized trunnion bearings), and preparation of design drawings, specifications, and cost estimates as part of design. During construction, responsibilities included review of contractor's shop drawings and procedures for conformance to contract requirements, disposition of non-conformance reports, and responding to requests for information or changes.
07/20-1/20	St. Claude Avenue Bridge Construction Engineering Services, New Orleans, LA: Project Manager and Senior Mechanical Engineer for construction engineering services on an expedited basis to assist with the replacement of the second link pins which connect the counterweight truss to the balance link. Services included balance testing, design of the counterweight support system, development of a sequence of work for supporting the structure, unloading and removing the pins, completing the repairs and restoring the bridge to service within a marine navigation closure that was controlled by repairs to the adjacent lock. Mechanical engineering services were provided on an expedited basis due to the short time-period between the award of the project and the start of the marine navigation closure.
06/20-04/25	Lynn-Saugus Bridge Replacement, Lynn, MA: Movable Bridge Project Coordinator for the construction of a new overhead counterweight bascule span bridge. Services encompassed mechanical and electrical construction work for the construction of this new Dutch-Style bascule span that is not commonly seen in the United States.
07/19-01/24	MBTA Bridge No. G-05-028, Gloucester Line over Annisquam River, Gloucester, MA: Movable Bridge Project Coordinator who provided construction support services to the contractor throughout construction for work associated with the erection of the bascule leaves, balance calculations and testing and for the installation and alignment of all machinery. Project involved construction of a twin-single leaf railroad bascule. The first leaf was installed and raised within a four-day marine outage.
07/14 – 02/18	Burlington Canal Lift Bridge, Hamilton, ON, Canada: Movable Bridge Construction Specialist and Heavy Machinery Specialist for the contractor as part of a major electrical and minor mechanical rehabilitation of this critical vertical lift bridge. The electrical scope of work included complete replacement of the electrical power and control systems for the bridge including an aerial cable installation and skew control of the lift span. The mechanical scope of work included replacement of the high-speed end of the span drive machinery (brakes, speed reducer, shaft, and couplings). The scope of work required the contractor's engineer to sign and seal all submittals including shop drawings.

	Firm	Wiss, Janney, Elstner Associates, Inc.			
	Name	Gareth Rees, PE		Years of Relevant Experience with this Employer	6
	Title	Electrical Engineer (Movable Bridges)		Years of Relevant Experience with Other Employer(s)	52
Degree(s)/Years/Specialization		BS/1968/Electrical Engineering			
Active Registration Number/State/Expiration Date		PE.0040754/LA/09.30.2026 Additional active licenses in 15 other states, the UK, and 5 Canadian Provinces.			
Year Registered	2016	Discipline	Electrical Engineering		
Contract Role(s)/Brief Description of Responsibilities		Electrical (Movable Bridges). Gareth serves as Lead Electrical Engineer responsible for task orders involving movable bridges. Gareth meets MPR 6.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
04/20-12/24	Independence and Liberty Bascule Bridges, Bay City, MI. Electrical Engineer of Record and in responsible charge of the electrical design and construction services for rehabilitation and upgrades to these two double-leaf bascule bridges as part of a P3 project and conversion for toll operation. Movable bridge electrical design experience includes electrical rehabilitation and upgrades for double-leaf bascule bridge operating systems.				
04/13-10/19	Fort Madison Toll Bridge, Fort Madison, IA. Engineer of Record and Project Manager in responsible charge of electrical design for the rehabilitation of this double-decker swing span bridge. Movable bridge electrical design experience includes design of new aerial and submarine power cable installations configured as redundant power sources. The submarine cable design included surveying the existing submarine cable, routing the new cable, designing and specifying the cable, identifying excavation requirements, and developing an approved trenching system. Design and contract documents were developed for staged construction to satisfy marine, railroad, highway, Coast Guard, and emergency service requirements related to bridge operating outages. Construction services were also performed.				
06/18-06/19	BNSF Slough River Bridge 8.8 - Portland, OR. Mr. Rees was the Electrical Engineer of Record in responsible charge for electrical design for design, construction and commissioning of the electrical operating systems and integration into the existing railroad operating network. Work consisted of replacement and upgrade of aging electrical systems to provide reliable electrical operating systems. Design additions to the electric service include construction of a new electric service compound containing a standby generator and automatic transfer switch, a new submarine cable installation and a new power slip ring arrangement at the center bearing to transition power between the pivot pier and the moving structure. The bridge drive and control system design replaced the existing main drive motors with variable frequency drives and squirrel cage induction motors. This combination has the capability of operating the bridge at infinitely variable speeds with torque control and dynamic braking. The existing relay logic and operator's control console replacement consists of a modern programmable logic controller with built-in SCADA and diagnostic functionality, and a streamlined operator's control station with an HMI providing status, alarm, and control functionality. The work included staged construction and relocation of the bridge interlocking signal and dispatcher control board as test as comprehensive testing of the bridge control system and signal interfaces.				

03/10–11/17	Sir Ambrose Shea Lift Bridge, Placentia, NL, Canada: Engineer of Record and in responsible charge of electrical design for a replacement tower-drive vertical lift bridge with two duty motors and brakes in each tower and two sets of span locks. Movable bridge electrical design experience includes operator control house systems, CCTV surveillance, fiber optic communications, redundant PLC-based control systems, human-machine interface, control console, redundant fiber optic communications backbone, intelligent motor control centers, bridge operation controls, drive monitoring, and data acquisition. The bridge operator's control house is located at roadway level and remote from the bridge.
07/19-03/24	Danziger Lift Bridge - New Orleans, LA. Lead Electrical Engineer responsible for electrical inspection, controls design, and repair recommendations for portions of the main lift span contributing to reported operational issues. Work included an in-depth inspection of the lift bridge machinery and electrical systems and development of repairs to restore long-term functionality and reliability. Movable bridge electrical design experience includes lift span skew control system design, electrical controls for transverse skew elimination clutches, span drive differential controls, and rehabilitation recommendations with cost estimate development. Prepared a new lift span skew control system design after the existing Selsyn components were removed from the bridge.
03/20-12/20	Skew Detection System Study for Vertical Lift Bridges, LA. Principal Investigator responsible for evaluating alternatives for skew control, monitoring, and indication for tower-drive vertical lift bridges. The study focused on effective skew management while minimizing advanced electronic equipment. Movable bridge electrical/control systems experience includes direct skew measurement using an inclinometer and lasers, indirect skew measurement using encoders, SMART relay control integration, skew monitoring, and trip indication. WJE was later tasked to design and manage implementation of the new skew control technology and deployed it at one DOTD bridge for evaluation for statewide implementation.
03/18-02/20	Charles Berry (Erie Ave) - Lorain 6 Bascule Bridge Rehabilitation, Lorain, OH. Movable Bridge Project Coordinator responsible for review, coordination, and integration of mechanical, electrical, and structural systems for rehabilitation of the operating and support systems for this historic double-leaf deck truss bascule bridge. Movable bridge electrical systems experience includes complete replacement of electrical power and control systems, shop and field acceptance testing, commissioning of installed operating systems, power recordings, and development of the Operations and Maintenance Manual. Services also included review of shop drawings for fit-up and constructability, shop inspection of critical components, field oversight during construction for critical assemblies, verification of final machinery alignment, and strain gage operational testing.
06/14–06/16	East Roundbunch Road over Cow Bayou, Orange County, TX: Lead Electrical Engineer responsible for designing new drives, controls, and field devices for the span drive machinery and the end wedge machinery as part of a rehabilitation of this historic structure to provide long-term reliable service. Span drive machinery was comprised of components with a proven history of utilization on movable bridges and was powered by an electric motor. Design and integration of new traffic control features, bridge and maintenance lighting, and a CCTV system were also included.
12/14-1/18	Burlington Lift Bridge, St. Catharines, Ontario, Canada: Lead Electrical Engineer providing construction support services to the contractor for the replacement of all power systems control systems and an aerial cable replacement for this critical vertical lift bridge. Work included review of all shop drawings, coordination of design issues, and start up and commissioning of the bridge.

	Firm	AECOM Technical Services, Inc.		
	Name	Jon Eberle, PE	Years of Relevant Experience with this Employer	12
	Title	Movable Bridge Task Leader/Structural	Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization		MS/ 2013/ Civil Engineering BS/ 2010/ Civil Engineering		
Active Registration Number/State/Expiration Date		PE 51485/LA/09.30.2026 Other relevant licenses: DE, FL, PA		
Year Registered	2017	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Movable Bridge Task Leader/Structural. Jon is experienced in various aspects of bridge development from the planning of simple span concrete or steel girders, long span arch, and truss bridges, to the evaluation, analysis, and design of complex and movable structures. His background covers both building new structures and rehabilitating existing ones, including on managing the LADOTD Movable Bridge Package 1 including the inspection, load rating and recommendations for repair or replacement for five movable bridges. Jon meets MPR 7		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
04/25-Ongoing	LADOTD, Movable Bridge Rehabilitation Contract, Multiple Locations Throughout Southern Louisiana. Engineer of Record, and in responsible charge for a contract including condition inspection, load rating, recommendation for repair/ replacement and design of rehabilitation/new bridge for 5 movable bridges throughout Louisiana. AECOM was selected for this task which includes three bascule bridges, one swing bridge and one pontoon span as well as all approach spans. Inspections are currently underway for the five structures.			
07/25 -Ongoing	LADOTD, Bayou Dularge Emergency Repairs - Houma, LA, Lead Structural Engineer and in responsible charge , This project involved an emergency inspection and rehabilitation design for the dual leaf bascule bridge which was experiencing excessive movement of the trunnion support tower when operating. Once notified of the issue, AECOM recommended the immediate closure of the bridge to vehicular traffic and worked to progressively deliver repair plans for an emergency repair to provide a new anchorage which bypassed the existing anchor bolts which were found to be failed or in questionable condition. Repairs are currently underway with the planned closure of the bridge lasting only 5 weeks.			
09/22- Ongoing	Millers Ferry Swing Bridge over the Mokelumne River, Walnut Grove, CA, San Joaquin and Sacramento Counties, Project Manager and in responsible charge , We are performing a feasibility study to determine whether to replace or rehabilitate the existing historic truss swing span structure . Through coordination with the Federal Highway Administration (FHWA), it was determined that the preferred alternative was to replace the existing structure with a new overhead counterweight rolling lift bridge. Jon has been leading the design of the replacement structure, which is advancing toward 65% design.			
12/18 - Ongoing	DeIDOT, Bridge 3-164 Movable Bridge Replacement, Slaughter Beach, DE. Jon served as Project Manager and Engineer of Record , leading AECOM's inspection, alternatives analysis, civil design, coastal engineering coordination, and overall delivery of the bridge replacement. He guided the recommendation to replace the existing bobtail swing bridge with a new Dutch bascule movable bridge to address ongoing maintenance issues and frequent inundation of operating equipment located below deck level on the pivot pier. The recommended replacement moves the majority of electrical and mechanical components above deck level, reducing impacts from high tide events. The project also includes design of a signature operator's house to complement the Dutch bascule bridge style. The project is currently at PS&E, with an anticipated construction cost of approximately \$30 million and construction expected during a yearlong full bridge closure.			

03/22-08/23	DeIDOT, Bridge 2-021A Movable Bridge Repairs, Milford, DE. Jon served as Project Manager/Senior Structural Engineer and was in responsible charge for inspection and repair design of an overhead counterweight rolling lift bridge after the machinery platform was struck by an over-height vehicle in December 2021. He managed the accelerated response, deployed the inspection team, and oversaw hands-on inspection of the damaged portal frame, machinery platform, and counterweight girder. Jon led development of repair recommendations into construction documents under an accelerated schedule, and the repairs were let for construction. After the bridge was struck again in December 2022, Jon managed additional repair scope addressing further damage to the machinery platform and mechanical equipment.
02/23 - 10/25	Swansea Bridge Condition Assessment, Transport for NSW, Movable Bridge. Jon served as Movable Bridge Technical Specialist for the condition assessment of Swansea Bridge , consisting of twin lift span movable bridges. He assisted the team with recommendations for structural repairs to the existing movable bridge structures. AECOM performed a critical condition assessment of the bridge's control, electrical, mechanical, and hydraulic assets to identify risks affecting current and future serviceability and reliability. Deliverables included an Asset Hierarchy and Asset Register, detailed condition and residual life assessment, review of Works as Executed drawings, FMECA workshop and report, and a Condition Assessment report with risk-based remedial work recommendations.
09/22 – Ongoing	Walnut Grove Movable Bridge Replacement. Project Manager / Structures Lead. Jon served as Project Manager and Structures Lead , leading the inspection, repair-versus-replacement alternatives analysis, and preliminary design for replacement of the existing truss swing bridge . He led the structural scope through preliminary design, including coordination of bridge replacement concepts and development of the recommended rolling leaf bascule movable bridge alternative. The project is currently anticipated to begin final design in 2026.
05/21-06/21	VDOT, Gwynn's Island Swing Bridge Peer Review, Gwynn's Island, VA. Lead Engineer. We performed a peer review of the rehabilitation contract documents for major mechanical and electrical rehabilitation of the existing historic truss structure swing span bridge . Jon led the review effort by coordinating between the client and the AECOM review team. He also performed a review of the contract documents and conducted a plan in hand walk through of the construction sequence to identify potential conflicts or issues with the provided contract documents.
01/18 – 08/20	Caltrans Islais Creek Bridge, San Francisco, CA. Jon served as task leader for structural analysis of a dual-leaf movable bridge replacement located in a high seismic zone. He led detailed seismic analysis of the replacement superstructure to verify the bridge could meet required seismic demands after evaluation determined the existing bridge required replacement due to structural deficiencies. Jon also served as task leader for the accelerated replacement design of the machinery pit top slabs, a critical element of the anticipated two-week construction window between closure and reopening to light rail traffic. The project was completed through semi-final design and is currently on hold while the client evaluates alternatives.
07/18 – 07/19	CN Railway Rainy Lake Movable Bridge Rehabilitation in Ontario, Canada. Jon served as task leader for structural design of a temporary support system to support the 1,130-kip counterweight during counterweight trunnion replacement . The existing 1913 Strauss overhead counterweight movable bridge exhibited trunnion wear requiring bushing replacement. Jon led development of a temporary structural system to lift and unload the counterweight, bypass the trunnion, and transfer loads to the existing substructure. This approach eliminated the need for new foundation construction and supported delivery of bid documents on an accelerated five-month schedule for construction during a winter shutdown in a cold-weather climate.
06/17 – 12/17	Universal Beijing Bascule Bridge. Structural Engineer. Mr. Eberle served as a structural engineer performing preliminary design of the reinforced concrete bascule pier . This project involved preliminary design for the substructure of a bascule bridge for Universal Beijing to support pedestrian and light vehicular loading.
02/14-12/14	DeIDOT, BR 3-152 Bascule Bridge Rehabilitation Laurel, DE. Structural Engineer, This project involved maintaining the existing counterweight, rack frame and bascule girders for the existing overhead counterweight rolling lift bridge while installing a new independent fixed beam superstructure around the remaining elements. Jon worked on the development of a structural system allowing the overhead counterweight for the existing rolling lift bridge to be supported by the rack frame due to the imbalance created when the existing floor system of the bascule leaf was removed.

	Firm Wiss, Janney, Elstner Associates, Inc.			
	Name	Jonathan McGormley, PE	Years of Relevant Experience with this Employer	31
	Title	Movable Bridge (Structures)/Corrosion Detection	Years of Relevant Experience with Other Employer(s)	1
Degree(s)/Years/Specialization		BS/1992/Civil Engineering MS/1994/Civil Engineering		
Active Registration Number/State/Expiration Date		PE 43912/LA/03.31.2028 PE 7 other states and licensed Structural Engineer in IL		
Year Registered	2019	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Movable Bridges (Structures). Jonathan has more than 15 years of movable bridge structural engineering experience, including inspection, evaluation, rehabilitation design, emergency repair design, load rating, structural investigations, monitoring, and construction support for bascule, vertical lift, swing, and lift-span bridge structures. He has served as Project Manager, Lead Structural Engineer, Structural Engineer of Record, and technical lead on complex movable bridge assignments involving structural, mechanical, and electrical coordination; operational issue resolution; fracture-critical inspections; gusset plate assessments; and repair recommendations for deteriorated or damaged bridge components. Jonathan will also support the instrumentation team providing corrosion detection, nondestructive testing, and bridge inspections. NBIS Certified Team Leader and Program Manager. NHI 130078 - Fracture Critical Inspection Techniques of Steel Bridges. NHI 130055 - Safety Inspection of In-Service Bridges (& Refresher 130053). Jonathan meets MPR 7.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
12/21-Ongoing	Jefferson St. Bascule Bridge Rehabilitation, Joliet, IL. Project Manager and Structural Structural Engineer of Record in responsible charge of the structural design for rehabilitation of structural, mechanical, and electrical components of this rolling Scherzer lift bridge over the Des Plaines River. Movable bridge structural design experience includes rehabilitation of a rolling Scherzer lift bascule bridge.			
01/21–05/25	Rehabilitation of I-80/94, Indiana Toll Road, Structure 1A-1, Hammond, IN. Served as Structural Engineer of Record in responsible charge for the investigation, field and laboratory testing, service life modeling, and rehabilitation of the steel, multi-girder superstructure comprised of 21 spans. The bridge rehabilitation included the removal of 17 bridge deck expansion joints and installation of link slabs to eliminate future maintenance issues below leaking bridge deck joints. To accommodate the new bridge deck continuity, disc bearings were installed at the base of 18 bent columns. Other repairs were designed to address structural steel deterioration with the structure to receive a new multi-coat paint system.			
07/19–07/22	Danziger Lift Span Bridge, US 90, over the Industrial Canal, New Orleans, LA. Project Manager and Structural Engineer of Record in responsible charge of structural repair design for resolution of reported operational issues with the lift span. Work included an in-depth inspection of lift span structural elements, lift bridge machinery, and electrical systems, and development of repairs to restore the bridge's long-term functionality and reliability. Movable bridge structural design experience includes structural repairs for a vertical lift span bridge, including orthotropic deck lift span overlay repairs, lift span-to-approach span contact issue repairs, and improvements to lift span seating through counterweight movements and air buffer repairs. Oversaw development of a monitoring plan and sensor installation, including the four trunnion bearings, and creation of a web-accessible reporting platform to evaluate bridge operations. Also assisted with plans, specifications, and cost estimates for emergency repairs, including replacement of failed pinion bearings.			

02/11-06/11	Lift-Span Railway Bridge over the Mississippi River, Midwest, U.S. Project Manager and Structural Engineer of Record in responsible charge of structural evaluation and repair recommendations for a lift span railway bridge after the structure was subjected to blast forces from adjacent construction. The work included helping the railroad client determine the extent of damage and needed repairs to the lift span truss, track, and machinery. Movable bridge structural design experience includes evaluation of damage to a lift span truss and development of structural, mechanical, and electrical recommendations to restore the lift span to its pre-blast condition. The investigation included hands-on, arms-length, and visual inspections.
10/18-01/19	Sunshine Bridge over the Mississippi River, St. James Parish, LA. Project Manager responsible for the development and implementation of a monitoring plan to provide information regarding redistribution of loads during the installation of repairs to the truss bottom compression chord damaged by impact. Structural EOR in responsible charge of structural design for jacking system design, review of member repair design, site observations, shop and jacking procedure drawings preparation, and field technical assistance.
11/24-Ongoing	UT of Bridge Pins and Hangers, Nine Structures, LA. Project Manager for visual and ultrasonic inspection of bridge pins and hangers, characterizing and documenting conditions of section loss, cracking, or other forms of distress.
08/24-01/25	Strauss Trunnion Bascule Railroad Bridge, Ontario, CAN. Project Advisor and Lead Structural Investigator into cause of collapse.
12/22-08/25	T-1 Steel Weld Assessment, LA. Project Manager for the inspection and assessment of T-1 steel butt welds. Work included identifying inspection locations, developing access plans for each structure, and preparing a work plan. Subsequent tasks involved coating removal; UT inspections of welds; QC/QA by a qualified ASNT Level III or Level II inspector; and removal of rejectable indications by grinding or coring. Structures included LA 47, IWGO (New Orleans); I-20 at Mississippi River (Vicksburg); and US 90 at Atchafalaya River (Morgan City).
03/21-12/23	Luling Bridge Deck Overlay Repair Consultation, St. Charles Parish, LA. Project Manager responsible for revising the project specifications and providing quality control assistance for the repair of an orthotropic deck overlay system comprising an epoxy underlayment with a SFRC overlay on the cable-stayed spans. Installed a long-term monitoring system to evaluate deck performance.
05/08-08/08 05/10-08/10	IDOT District 1 PTB 145-008 Fracture Critical Inspections, Northern IL. Project Manager for the fracture critical and routine inspections for eight bascule bridge structures (four trunnion-type bascule bridges and four Scherzer rolling lift bascule bridges).
03/12-09/12	IDOT District 1 PTB 153-018 Gusset Plate and Load Ratings, Northern IL. Project Manager for the gusset plate inspections and load rating analysis for eight bascule bridge structures (four trunnion-type bascule bridges and four Scherzer rolling lift bascule bridges) in northern Illinois.
09/13-10/13	Grand Avenue Bascule Bridge, Chicago, IL. Project Engineer for gusset plate condition assessment, load ratings, and preliminary retrofit development for members of this double leaf bascule bridge with inadequate live load capacity due to section loss.
04/10-04/11	Hylebos Bridge, Tacoma, WA. Project Engineer for visual inspection of the double-leaf bascule bridge in preparation for rehabilitation.
03/08-06/09	I-5 Columbia River Bridge, Portland, OR. Project Engineer overseeing span balance and counterweight adjustments of lift span bridge. Documented number and location of concrete blocks, cored counterweights to determine voids, oversaw instrumentation of operating rope turnbuckles and pinion shafts, and inspected bearings and guide rollers.

	Firm	AECOM Technical Services, Inc.			
	Name	Jonathan McDowell, PE		Years of Relevant Experience with this Employer	22
	Title	Roadway Task Lead, MOT		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/03.31.2027 Additional active licenses: MS, AR, TX			
Year Registered	2003	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Roadway -Traffic Task Leader/Maintenance of Traffic - TMP. Jonathan will play a lead role in roadway design, benefitting from over 22 years' experience as a Project Engineer and Project Manager for a wide variety of transportation and public infrastructure projects, including the development and review of signing plans. His roles have included feasibility planning, NEPA Environmental studies, preliminary and design, contract administration, and construction engineering and inspection for all modes of transportation projects involving urban and rural road and bridge geometrics, rail crossings for light and heavy rail systems, utilities relocations and coordination, bicycle and pedestrian facilities, open and subsurface drainage, and maintenance of traffic during construction. Through his experience, he understands the project delivery process required to bring a transportation project from an idea to a built reality. His computer skills include use of both Bentley and AutoCAD programs depending on client requirements. Jonathan meets MPR 8.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
04/25-Ongoing	LADOTD Bridge Preventative Maintenance IDIQ (Bridge Bundle), Statewide. Project Manager and Lead Road Design Engineer responsible for design services for the replacement of (11) bridges in central and southeastern LA within Districts 08, 61, and 62. The (11) bridge replacements were bundled into (4) construction packages and delivered using a staggered preliminary and final design scheduling approach. With the goal of delivering the four (4) bundled construction packages within a 9 to 10 month duration, Jonathan identified multiple design teams and tasks common to each project to manage and expedite the design development for each bundled package.				
05/13-07/15	LADOTD (H.001779), Red River Bridge at Jimmie Davis Highway (LA 511) Environmental Assessment, Bossier and Caddo Parishes, LA. Lead Roadway Design Engineer to design geometric layout alternatives to improve the capacity and accommodate pedestrian and bicycle access for the bridge crossing of the Red River along Jimmie Davis Highway. Tasks included the development of the purpose and need statement, the project design criteria, and the line and grade alternatives of the bridge, interchange ramps on each side of the bridge, and roadway approaches. Developed a median U-turn concept (super street) for LA 511.				
11/04-12/07	LADOTD (State Highway Project 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.				
10/20-Ongoing	City of Baton Rouge/Parish of East Baton Rouge, College Drive Improvements (Perkins Road to Bawell), Baton Rouge, LA. Project Manager and Task Manager. Responsible for the 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. Developed line and grade for road relocations and extension, performed line and grade study for alternative to modify the interstate ramps. Supporting real estate acquisition and utility relocation processes.				

09/17-12/23	State Project No. BA-0153: Mid Barataria Sediment Diversion, Coastal Restoration and Protection Authority of the State of Louisiana, Plaquemines Parish, LA. Task Manager and Lead Road Design Engineer. Responsible for the relocation of LA 23 and the NOGC Railroad tracks across the proposed sediment diversion. Developed line and grade for the highway relocation and the rail crossing. Supported the drainage design and utilities relocations tasks . The railroad bridge crossing of the diversion channel which will feature a moveable span bridge, 10,000 feet of new railroad track, and a railyard to support construction. The highway improvements will include a 2,300-foot-long precast LG girder bridge that will carry two lanes in each direction with shoulders. Roadway improvements include converting the existing southbound lanes for access roads on each side of the diversion channel and a relocated alignment of the rural divided highway to provide for better horizontal geometry on the bridge structure.
07/23-Ongoing	LADOTD (H.001970), LA 561 Boeuf River Bridge near Hebert, Caldwell & Richland Parishes, LA. Road Design Lead Engineer for the replacement of a truss bridge with a new precast girder bridge along the same alignment. Designed line and grade for updated hydraulic design criteria and reduce ROW acquisition. Designed line and grade for a gravel local road to serve adjacent residences. Assisted with drainage design and utilities coordination.
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 for the design of corridor improvements to Siegen Lane to upgrade the two lane suburban road to a four lane urban boulevard. Performed road line and grade, developed 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.
05/13-07/15	New Orleans Regional Transit Authority, Loyola/Rampart Streetcar Rail Expansion, New Orleans LA. Project Manager and Infrastructure Task Leader to prepare two sets of contract plans and specifications on an accelerated schedule to reconfigure the streetscape to include streetcar tracks in a shared traffic lane. Designed the roadway typical section in accordance with the City of New Orleans Complete Streets Ordinance. Led utility coordination effort and test hole program to locate all underground utilities to resolve utility conflicts. Led the road design, MOT during construction. Performed construction support services.
06/15 - 01/23	Coastal Restoration and Protection Authority of the State of Louisiana, Maurepas Sediment Diversion, (SP No. BA-0153), St. John the Baptist, LA. Task Manager and Lead Engineer. Responsible for Preliminary Engineering for improvements to US 61 and LA 44 for the crossing diversion channel. Reviewed MOT plans for the diversion construction to provide truck entry points along I-10 and US 61 near the diversion channel crossings of each roadway. Developed horizontal and vertical geometry for preliminary layouts of US 61 raise over the levee for a bridge condition and an earthen condition. Considered guardrail requirements for a floodwall gate condition. Developed a layout for service roads along US 61 in the vicinity of the bridge crossing and considered the use of the roads during construction and permanent conditions. Reviewed design of improvements to an at grade rail crossing at the intersection of LA 54 and the CN railroad due to the raising of the track elevation to traverse the sediment diversion channel. Currently providing technical QC review and support to the design team as project progresses to final design.
07/15 – Present	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.
11/04 – 02/17	Coastal Restoration and Protection Authority of the State of Louisiana, Maurepas Sediment Diversion, (SP No. BA-0153), St. John the Baptist, LA. Task Manager and Lead Engineer. Responsible for Preliminary Engineering for improvements to US 61 and LA 44 for the crossing diversion channel. Reviewed MOT plans for the diversion construction to provide truck entry points along I-10 and US 61 near the diversion channel crossings of each roadway. Developed horizontal and vertical geometry for preliminary layouts of US 61 raise over the levee for a bridge condition and an earthen condition. Considered guardrail requirements for a floodwall gate condition. Developed a layout for service roads along US 61 in the vicinity of the bridge crossing and considered the use of the roads during construction and permanent conditions. Reviewed design of improvements to an at grade rail crossing at the intersection of LA 54 and the CN railroad due to the raising of the track elevation to traverse the sediment diversion channel. Currently providing technical QC review and support to the design team as project progresses to final design.

	Firm	Forte & Tablada, Inc.			
	Name	Tyler Branch, PE		Years of Relevant Experience with this Employer	15
	Title	Transportation - Roadway Design		Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization		BS / 2012 / Civil Engineering			
Active Registration Number/State/Expiration Date		PE.41576 / LA / 09-30-2027			
Year Registered	2017	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Roadway Design. Tyler has more than a decade of roadway design and project management experience on DOTD, MOVEBR, parish, and local transportation projects throughout Louisiana. His experience includes roadway widening, corridor improvements, pavement preservation, intersection improvements, multilane and single-lane roundabouts, pedestrian and bicycle facilities, drainage design, guardrail, access management, bridge replacement coordination, ROW acquisition, and CE&I support. He has served as Project Manager, Engineer of Record, Assistant Project Manager, Lead Designer, and Road Designer on projects in East Baton Rouge, Livingston, St. Tammany, and surrounding parishes. Tyler meets MPR 8.			
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
08/23-Ongoing	H.015104 Greenwell Spgs. at Morgan Rd. Intersection Improvements, East Baton Rouge Parish, LA. Serving as the Project Manager for the intersection improvement project in Central, LA. Design consists of a multilane roundabout with lane reductions along an existing 2-lane road to provide pavement for future roadway widening, drainage, and guardrail. All design elements are being designed to DOTD and federal standards utilizing the latest NCHRP Report.				
12/22-Ongoing	H.005734 LA 447: Widening from I-12 to Buddy Ellis Rd., Livingston Parish, LA. Serving as the Project Manager for the plan development of the ±1.2 mile, ±\$20 million project to widen LA 447 from a 2-lane roadway to a 4-lane boulevard, and includes relocations of two (2) side roads, Milton Ln. and Miller Rd., and two (2) multi-lane roundabouts – one at O'Donovan Blvd. and another at Buddy Ellis Rd. – in Walker, LA. All design elements will be designed to DOTD and federal standards.				
12/23-Ongoing	H.015711 Joor Rd. & Sullivan Rd. Roundabout, East Baton Rouge Parish, LA. Serving as the Project Manager for the intersection improvement project in Central, LA. Design consists of a single lane roundabout including high-speed approaches along Joor Rd. and access management considerations. All design elements are being designed to DOTD and federal standards utilizing the latest NCHRP Report.				
09/23-Ongoing	H.015661 Bass Pro Blvd. Improvements, Livingston Parish, LA. Serving as the Project Manager for the pavement preservation and access management project in Denham Springs, LA. The project includes a single lane roundabout at Sac Au Lait Lane, narrow median near S. Range Avenue, and pavement preservation. All design elements were designed to DOTD and federal standards utilizing the latest NCHRP Report.				
05/24-Ongoing	C0234: N. Columbia St. Roundabouts, St. Tammany Parish, LA. Serving as the Project Manager for the ±\$2.5 million intersections improvements project in Covington, LA. The design consists of a single lane roundabout at W. 30th Avenue, a mini roundabout at N. Jefferson Avenue, subsurface drainage, and pedestrian facility improvements. Roles includes overseeing all plan development, drainage and geometric design, and ROW acquisition.				

10/21-01/26	H.014675 Florida Boulevard Corridor Enhancement, East Baton Rouge Parish, LA. Served as the Engineer of Record and Assistant Project Manager for the ±\$46M Corridor Enhancement Project in Baton Rouge, LA, for the MOVEBR Program, overseeing the design of pedestrian and bicycle facilities along both sides of the roadway from N. 22nd St. To Airline Hwy., including crosswalk upgrades at all signalized intersections, pavement preservation, and the design of subsurface drainage improvements from Acadian Thwy. to Foster Dr.
03/25-Ongoing	H.002825 LA 30 (Nicholson Dr.): Brightside – Gourrier, East Baton Rouge Parish, LA. Serving as the Project Manager for the ±\$20M Corridor Improvement Project in Baton Rouge, LA, for the MOVEBR Program, overseeing the design of the corridor widening from 2-lane roadway to 4-lane boulevard with pedestrian and bicycle facilities.
01/15-Ongoing	H.012308 Cook Road Improvements, Livingston Parish, LA. Served as a road designer for the ±1.802 miles, 4-lane boulevard road extension project in Livingston Parish, which includes new and extended 4-lane boulevard roadway with sidewalks, bridge over Grays Creek, RCB over Grays Creek Lateral, single lane roundabout at LA 16 (Pete's Highway). Construction estimated to be complete by July 2026.
01/14-Ongoing	12-CS-HC-0043 Old Hammond Highway, Segment 1, East Baton Rouge Parish, LA. Served as a road designer and performed the horizontal and vertical design for the proposed multilane roundabout and performed the hydrologic and hydraulic analysis for an existing timber bridge replacement as part of the Green Light Plan / MOVEBR in the City of Baton Rouge/East Baton Rouge Parish. Currently serving as the Project Manager for Phase C of the project (Blvd. De Province to S. Flannery), including widening the 2-lane roadway to a 4-lane boulevard with pedestrian and bike facilities, and the replacement of 2 bridge structures.
04/20-06/24	H.014358 Amite Church Road Improvements, Livingston Parish, LA. Project Manager and Engineer of Record for the Design of the ±0.83 mile road preservation project in Livingston Parish, LA, overseeing the design of the alignments, profiles, geometrics, drainage, etc. The project scope included rehabilitating the pavement and improving roadside drainage. Served as the Project Engineer for CE&I Services utilizing the federal / DOTD process.
11/20-09/23	H.014420 Yellow Jacket Boulevard Improvements, Livingston Parish, LA. Project Manager and Engineer of Record for the Design of the ±0.31 mile road preservation project in Denham Springs, LA, overseeing the design of the alignments, profiles, geometrics, drainage, etc. The project scope included mill and overlay and pedestrian facilities upgrades. Served as the Project Engineer for CE&I Services utilizing the federal / DOTD process.
01/19-12/19	BTR Airpark Boulevard Extension, East Baton Rouge Parish, LA. Lead Designer and Project Engineer for the \$2M± road extension project in East Baton Rouge Parish, designing the alignments, profiles, geometrics, grading, drainage etc., and served as the project engineer during the construction phase of the project attending meetings, reviewing and recommending acceptance of pay applications, finding solutions to problems that arose in the field and coordinating dedication of right-of-way.
01/16-12/16	H.011528 George Mashon Road and Travis Street Bridge Replacements, Livingston Parish, LA. Road Designer and performed the hydrologic and hydraulic analysis for existing timber bridge replacements in Livingston Parish.

	Firm	Ardaman & Associates, Inc.		
	Name	Megan Bourgeois, PE	Years of Relevant Experience with this Employer	20
	Title	Geotechnical	Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization		BS/2006/Civil Engineering		
Active Registration Number/State/Expiration Date		Professional Engineer, Civil No. 36725/LA/Exp. 03.31.2028 Traffic Control Supervisor Certification/LA/Exp. 06.21.2028 LADOTD Flagger/LA/08.14.2028 Certified NHI Drilled Shaft Inspector		
Year Registered	2011	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Geotechnical. Megan has more than 19 years of experience with design and analyses of countless types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA & GEC design, slope stability (embankment and excavation) and earth retaining structures. She also has extensive experience with geotechnical instrumentation, installation and monitoring, and construction phase testing and laboratory management. She has served as Ardaman's project manager for many LADOTD projects for bridges and roadways throughout Louisiana and completed numerous geotechnical investigations, engineering, and reporting in accordance with LADOTD standards. She has successfully overseen several major contracts for LADOTD and other clients. Ms. Bourgeois also serves as the director of our geotechnical engineering and CMT laboratories in Baton Rouge and has overseen the laboratory testing programs in accordance with LADOTD standards. In this role, she supervises the laboratory managers, oversees testing, provides guidance to laboratory staff, and ensures appropriate protocol is followed and deadlines are met in addition to providing training material and maintaining all laboratory certifications, including AMRL, CCRL, DEQ & USACE. Megan meets MPR 9.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/23-Ongoing	SP NO. H.013284 / MRB SOUTH GBRL: LA 1 TO LA 30 CONNECTOR: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA. Project Engineer. The project consists of an Enhanced Planning investigation into S.P. No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments. Ms. Bourgeois helped oversee supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile all the soil borings and ECPT. The preliminary engineering analyses included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations.			

07/21-01/22	SP NO. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA. Project Manager. Managed all aspects of this project pertaining to coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 geophysical survey transects. A majority of the soil borings were completed from a barge over deep water, some from a marsh buggy over shallow water and thick marsh grass. Ms. Bourgeois also managed and oversaw the laboratory testing program and processing and analyzing of the ECPT and ER data. She also assisted with development of a geotechnical database and preparation and submittal of a geotechnical data report. This project consisted of obtaining geotechnical data under a strict deadline to be used in the design of a replacement of the existing I-10 Calcasieu River Bridge with a new structure and improvements to various other interchanges.
04/21-Ongoing	SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / RURAL BRIDGE INITIATIVE PHASE II: West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA. Project Engineer. This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, over various size rivers and creeks. Ms. Bourgeois leads technical reviews pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses, construction testing program recommendations, and report preparation in accordance with LADOTD guidelines.
02/20-Ongoing	SP NO. H.004791 / DESIGN SUPPORT SERVICES LA 23, BELLE CHASSE BRIDGE & TUNNEL: Plaquemine Parish, LA. Project Engineer/Laboratory Director. Ardaman's scope consists of review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's for the P3 Project consisting of replacing the Belle Chasse bridge and tunnel. In addition, Ardaman performs acceptance verification sampling and testing during the construction for soils and concrete. Ms. Bourgeois assisted in review and acceptance of geotechnical services as well as quality control and review of all acceptance verification sampling and testing during construction.
10/15-Ongoing	SP NO. H.013579 / PECUE LANE I-10 INTERCHANGE: East Baton Rouge Parish, LA. Project Manager. This project consists of twin bridges with MSE wall abutments for both bridges crossing Interstate I-10, a bridge crossing Ward's Creek, and on/off-ramps in south Baton Rouge. Ms. Bourgeois managed all aspects of the project that included field investigations, laboratory testing, and engineering design. Ms. Bourgeois performed analyses including settlement estimates with recommendations for monitoring, driven pile design including down drag considerations, MSE Wall design, slope stability and pavement section recommendations; all completed according to LADOTD standards. She is currently assisting with the field construction monitoring.
10/09-Ongoing	SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW: Vicksburg, MS. Project Manager. Ms. Bourgeois manages this multi-million-dollar, highly technical project consisting of investigating movement of the I-20 Bridge in Vicksburg, MS. She managed a highly technical team including academia, experts, including internationally recognized geotechnical engineers, geohydrologists, instrumentation specialists, and 3-D geotechnical modeling experts. She managed and personally oversaw a comprehensive laboratory testing program and was involved in refining the geotechnical site characterization for the bank/bluff where there was evidence of shifting creating movement in the bridge structure. The specialized testing, she personally performed or managed included x-ray diffraction, x-ray scanning to identify existing shearing planes and stress-reversal direct shear tests to determine true residual angles of critical strata. She was instrumental in designing the geotechnical instrumentation program for this project including vibrating wire piezometers, Casagrande type piezometers, SAA inclinometers, and traditional inclinometers. In addition, Ms. Bourgeois performed seepage and drawdown analyses, slope stability analyses, evaluation of remedial measures including design and evaluation of large foundation structures and developed technically feasible solutions to mitigate ground movement. She co-authored the geotechnical analysis and design report. She is currently overseeing the comprehensive monitoring program.

	Firm	Forte & Tablada, Inc.		
	Name	Bradley Holleman, PLS, PE	Years of Relevant Experience with this Employer	4
	Title	Topographic Survey - Title Work Task Leader	Years of Relevant Experience with Other Employer(s)	15
Degree(s)/Years/Specialization		BSCE/2009/Civil Engineering		
Active Registration Number/State/Expiration Date		PLS 5082/LA/09.30.2026; PE 47165/LA /03.31.2027		
Year Registered	2012	Discipline	Land Surveying	
Contract Role(s)/Brief Description of Responsibilities		Topographic Survey - Title Work Task Leader - Bradley will serve as Survey Principal-in-Charge during this contract, and in that role, he will coordinate with the Survey Task Managers to assure task orders are estimated, started, and completed to meet scheduled deadlines, while also satisfying LADOTD deliverable standards and Forte and Tablada's quality standard. Bradley has 14 years of experience of managing field crews and office work on on-system LADOTD Topographic Surveys, Boundary Surveys and ROW Mapping with 9 years being the Supervising Professional and 3 years as Principal. He has managed over 130 task orders under 10 separate Topographic and ROW Mapping IDIQ Contracts with LADOTD. Bradley fulfills MPR 10 of being a professional land surveyor, registered in the state of Louisiana, having a minimum of five (5) years of experience in responsible charge of conducting topographic surveys as shown below.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/23-Ongoing	Contract 4400025029 - H.015547, H.015548, H.015549, H.015341, H.015551, H.015552, H.015545, H.015550, H.015544, H.015553- Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program- 10 State Project Numbers (13 Bridge Sites), East Baton Rouge Parish, LA – Principal-in-Charge for topographic surveying and ROW mapping services for 13 bridge sites on 2 lane roadways.			
12/21-Ongoing	IDIQ Contract No. 4400021974 for Professional Surveying Services – Statewide, LA – Principal-in-Charge performing Topographic Surveys for LADOTD. To date, this IDIQ contract has included a total of 9 separate Task Orders for 7 State Highway Projects. Survey tasks included establishing deep rod control monuments, Conventional Topo, Hydrographic Survey,			
09/21-Ongoing	IDIQ Contract No. 4400021532 for Professional Surveying Services – Statewide with Majority of Work in Districts 03 and 07 –Principal-in- Charge for property surveys, establishing existing right-of-way, ROW maps and title take-offs for LADOTD.			
06/21-Ongoing	Contract 4400019336 - H.014219, H.014222, H.014228, H.014231 and H.014236 – Rural Bridge Replacement Initiative Phase II; 5 State Project numbers (20 Bridge Sites) in Districts 04 and 05, LA – Principal-in-Charge for topographic surveying and ROW mapping services for 20 bridge sites on 2 lane rural roadways.			
01/21-Ongoing	H.004273.5 – I-49 Connector – Lafayette Parish, LA – LADOTD – Principal-in-Charge responsible for providing topographic and property surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long.			

08/19-Ongoing	H.011670- I-10/Loyola Interchange Improvements, Kenner, LA – Surveyor-in-Charge/Principal-in-Charge providing Topographic Survey, Right- of-Way Survey, Drainage Survey, and ROW Monument Mapping. The project stretches along I-10, from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd for approximately 3.2 miles of roadway. Mr. Holleman originally managed SJB Group's portion of the Survey and is now serving as Principal-in-Charge for any ongoing or new work Forte and Tablada is tasked with.
03/24-04/24	H.015935 LA Hwy 47 Over Bayou Bienvenue- Emergency Bridge Replacement, St. Bernard/Orleans Parish, LA- Principal-in-Charge to provide topographic surveying for an emergency bridge replacement of the LA 47 bridge over Bayou Bienvenue. In addition to Conventional Topographic survey, Hydrographic survey of the Bayou was included. The bridge deck features and substructures were scanned through terrestrial LiDAR methods. Due to the emergency status of the project, the project was completed in a condensed timeline.
01/21-12/22	Contracts 4400010587 - Task Order 18; 4400015237- Task Order 1; 4400021974 - Task Orders 1, 3, and 4- H.003931 - Calcasieu River Bridge (HBI) – Calcasieu Parish, LA– Principal-in-Charge for this project providing topographic survey, Mobile and Terrestrial LiDAR, Multibeam Hydrographic survey of Lake Charles, and drainage mapping. This project is in a high-traffic industrial area along I-10 and is approximately 7 miles long. This Survey included four Phases of work, which were completed within a condensed timeline, requiring up to 6 Survey Crews being mobilized in order to meet deadlines for each Phase.
01/21-06/22	Retainer Contract No. 4400010587 for Professional Surveying Services – Statewide with Majority of Work in Districts 02, 03, 07, 61 and 62, LA – Principal-in-Charge performing Topographic Surveys for LADOTD. This Retainer contract included a total of 18 separate Task Orders for 11 State Highway Projects. Survey tasks included establishing deep rod control monuments, Conventional Topo, Hydrographic Survey, terrestrial and mobile LiDAR Survey , and producing Existing Drainage Maps.
01/21-03/22	Contract 4400017598 - H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990- Rural Bridge Replacement Initiative Phase I; 7 State Project Numbers (22 Bridge Sites) in Districts 04, 05, 08 and 58, LA – Principal-in-Charge for topographic surveying and ROW mapping services for 22 bridge sites on 2 lane rural roadways.
11/19-12/20	H.012083- Calcasieu River Bridge Investigation, Calcasieu Parish, LA - Surveyor to provide Mobile LiDAR scanning services for the I-10/Lake Calcasieu bridge in Lake Charles, LA. Terrestrial scans were done underneath the bridge for 10 spans on the East and West side, on top the deck to capture the superstructure, as well as from the water below to capture the sub structure.
01/18-04/20	H.004100- I-10: LA 415 to Essen Lane, East Baton Rouge Parish, LA - Surveyor-in-Charge for the topographic survey and 3D Mobile laser scanning . This project was for the widening design of Interstate 10 from LA 415 to Essen Lane in East Baton Rouge Parish. This Survey was part of a larger project that extended West to LA 415 and included a team of 4 Survey firms to complete the work on schedule.
04/17 – 10/19	LADOTD, H.002151 LA 339 and LA 339S Bayou Parc, South Louisiana Survey Retainer, LA. Surveyor-in-Charge. Responsible for the property survey and ROW map . This project was for the construction of a bridge replacement and improvements along LA 339. The work consisted of conducting field and office analysis to determine the existing ROW and produce a set of ROW maps, according to LA DOTD specifications, for acquisition of parcels required for construction.
06/16 – 02/17	LADOTD, H.000263 Chef Menteur Pass Bridge. Surveyor-in-Charge. Responsible for the topographic survey, 3D laser scanning and existing drainage map. This project was for the design of new bridge to replace the existing swing bridge on US 90 over Chef Menteur Pass. The work consisted of completing a topographic survey, according to the LA DOTD Location and Survey Manual.

	Firm	T. Baker Smith, LLC		
	Name	Jean Reulet, III, PLS	Years of Relevant Experience with this Employer	5
	Title	Topographic Survey, Title Work/Research	Years of Relevant Experience with Other Employer(s)	13
Degree(s)/Years/Specialization		BS/2011/Geomatics		
Active Registration Number/State/Expiration Date		PLS# 5145/LA/03.31.2028		
Year Registered	2015	Discipline	Professional Land Surveyor	
Contract Role(s)/Brief Description of Responsibilities		Topographic Survey, Title Work/Research. Jean Reulet, III, PLS serves as TBS' Surveying Lead Professional of Transportation. His field experience for LADOTD projects began in 2011 where he has been involved in dozens of survey projects of various sizes across the State of Louisiana. He has participated in all stages of Topographic Survey and ROW Map preparation from field data collection to final deliverables according to the LADOTD's Location and Survey Manual. This experience has enabled Jean to develop a very thorough QA/QC process which has been used to train a highly skilled project team. In addition, Jean is experienced in LADOTD contract management and task order negotiations. Jean meets MPR 10.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/22 - Ongoing	S.P. No. H.014918 LA 73 Roundabout at Bluff Road Connector; LADOTD/Ascension Parish; Ascension Parish, LA – Surveyor of Record. Responsible for field crew oversight, data processing and review, and deliverables preparation. Performed Topographic Survey, Property Surveys, and ROW Mapping for the design and construction of a Roundabout at the intersection of LA 73 and the proposed Bluff Road Connector.			
11/21 – Ongoing	Contract 44-21973 IDIQ for Professional Surveying Services; LADOTD; Statewide, LA – Project Manager/Surveyor of Record. Jean serves as the project manager and surveyor of record for this Surveying Services IDIQ. He is responsible for manhour estimate preparation and contract negotiations. Jean coordinates with private landowners, railroads, and other entities to obtain right-of- entry prior to survey commencement. He oversees the topographic data collection and processing, utility research, and drainage map development. He also provides QA/QC and ensures delivery according to project schedule. To date, Jean has successfully completed five task orders (H.009892, H.014414, H.015587, H.016324, H.016326) with four more currently active (H.009892, H.016322, H.016323, H.016333).			
09/25 - Ongoing	S.P. No. H.008069 Peters Road Bridge and Extension (Phase 3); LADOTD; Jefferson and Plaquemines Parishes, LA – Surveyor of Record. Responsible for field crew oversight, data processing and review, and deliverables preparation. Performing Topographic, Bathymetric, and Property surveys across approximately 2.8 miles of Virgin terrain for construction of a road between Walker Road and Engineers Road, including a bridge over the Intracoastal Waterway and Bayou Barataria. ROW Maps are included in this effort to aid in acquisition of the required ROW.			
09/21 – 01/23	Contract 44-17598, Rural Bridge Replacement Initiative, Ph I (47 bridge structures); 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 ROW surveys for the replacement of 47 bridge structures in 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 ROW maps.			

07/21 – 02/24	Contract 44-19336, Rural Bridge Replacement Initiative, Ph II (40 bridge structures); LADOTD; Districts 04, 05 — Survey Project Manager. Coordinated field crews, processed data daily, and provided QA/QC of deliverables. TBS performed control, topographic, and ROW surveys for the replacement of 40 bridge structures in 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 ROW maps.
06/23 - Ongoing	Contract 44-25027, Infrastructure Investment and Jobs Act (IIJA) Off System Bridge Program District 08; LADOTD; District 08, LA — Sr. Project Manager/Surveyor of Record. Oversaw the completion of topographic surveys, property surveys, and ROW maps for the replacement of 12 bridges. Responsible for field crew coordination, project QA/QC, title research, and deliverables preparation. Surveys were performed to LADOTD Location and Survey standards.
08/22 - Ongoing	S. P. No. H.014918 LA 73 Roundabout at Bluff Road Connector; Ascension Parish Government, Ascension Parish, LA – Surveyor of Record. Performed Data Processing for Topographic Survey, Title Research, Property Survey, and ROW maps for the design and construction of a roundabout at the intersection of LA 73 and the proposed Bluff Connector Road.
06/22 - 06/22	S.P. H.010557 Lajaunie Road/ Lateral 1 Bayou St. Clair Bridge Replacement; LADOTD; Lafayette Parish, LA – Sr. Project Manager. Performed survey control verification following design and ahead of replacement of an existing bridge structure in Lafayette Parish, LA.
01/22 – 03/23	S.P. No. H.013116 LA 20 Widening (LA 307 to S. Vacherie); LADOTD; St. James and Lafourche Parishes, LA - Sr. Project Manager. Performed QAQC of Final ROW maps ahead of submittal for the widening of a 3-mile segment of LA 20 near Vacherie.
03/21 – 04/21	S.P. No. H.002273 LA 19 - Comite River Diversion Bridge; LADOTD, East Baton Rouge Parish, LA – Surveyor of Record. Performed data processing, title research and project QAQC for final ROW Maps. ROW acquisition was required for the construction of a bridge on LA 19 over the Comite Diversion Canal.
008/19 - 11/19	SP. No. H.005121.5 LA 1 / LA 415 Connector; LADOTD; West Baton Rouge Parish, LA - Senior Project Manager. Responsible for field crew oversight, data processing and review, and deliverables preparation. Performed Topographic survey for construction of a connector Road between LA 415 and LA 1. This project included a hydrographic Survey of a portion of the Intracoastal Waterway.
03/17 - 04/18	H.004987 US 190 Collins Blvd. Widening; LADOTD; St. Tammany Parish, LA – Surveyor of Record. Performed a Topographic Survey for the widening of approximately 3 miles of US 190 in St. Tammany Parish, LA including the replacement of a bridge over the Bogue Falaya River. Coordinated with field crews, technicians, and Subsurface Utility Engineer. Provided QAQC and assisted in Deliverables preparation. [Previous employer]
02/15 – 04/16	S.P. No. H.011137 & S.P. No. H.011152, I-12 (LA 21 to US 190) & I-12 (US 190 to LA 59); LADOTD; St. Tammany Parish, LA — Senior Project Manager. Responsible for field crew oversight, data processing and review, and deliverables preparation. Performed topographic survey for widening of Interstate 12, including improvements to the existing bridges over the Tchefuncte River. [Previous employer]

	Firm	AECOM Technical Services, Inc.		
	Name	Matthew Kear	Years of Relevant Experience with this Employer	5
	Title	Sr. Architectural Historian	Years of Relevant Experience with Other Employer(s)	17
Degree(s)/Years/Specialization		MA/2009/Historic Preservation Planning BA/2005/Classical Studies AA/2003/Anthropology		
Active Registration Number/State/Expiration Date		N/A		
Year Registered	N/A	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities		Architectural History / Section 106/HABS/HAER. Matthew has conducted compliance activities for state and federal agencies, including TDOT, GDOT, SCDOT, FDOT, FHWA, USACE, FTA, GTC, GPA, and the EPA. He led environmental studies at GDOT for eight years and has since managed teams at two firms. His expertise includes Section 106, Section 4(f), cemeteries and cultural landscapes, historic infrastructure, and emerging trends in historic architecture. At GDOT, Matthew initiated and contributed to the landmark 2023 context study, <i>Identification and Evaluation of Georgia's Historic Burial Grounds</i> . Matthew completed the National Preservation Institute Course on Section 106 of the National Historic Preservation Act. He served as the consultant co-chair for the ACEC Georgia Partnership for Transportation Quality, History Subcommittee from 2023-2025 and has led initiatives involving engagement, safety, and emerging professionals in Georgia transportation compliance. Matthew meets MPR 11		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/21-Ongoing	GDOT, State-Funded Environmental On-Call Services, Atlanta, GA. History Section Manager. This contract requires AECOM to act as an extension of GDOT in all aspects of compliance, quality review, and consultation on a range of projects. Matthew manages history compliance for all projects under this contract, from conception to construction. He coordinates scoping and budget development; QAQC efforts for in-house and consultant deliverables; and staff training and oversight.			
01/21-Ongoing	GDOT, Transportation Investment Act Program, Atlanta, GA. As Program Lead Historian, Matthew oversees all state and federal compliance for History. This includes scoping efforts, technical review of deliverables as an extension of GDOT, cultural project and schedule management, and consultation with relevant agencies (including the USACE and the Georgia SHPO) for approximately 21+ projects under this contract.			
01/21-Ongoing	GDOT, Historic Bridge Marketing Program, Atlanta, GA. History Section Manager. In partnership with GDOT, Matthew oversaw the development of procedures for the marketing of NRHP-eligible historic bridges that are programmed for replacement. This included the development of a GDOT workflow, marketing website, and a legal agreement template for the adoption of bridges. Matthew's team monitors bridges that will require marketing and provides quarterly updates to GDOT. His team is currently in contracting with GDOT to expand the website with more educational content.			

12/18-12/20	Vanasse Hangen Brustlin (VHB, I-285 Top-End Express Lanes, Major Mobility Investment Program (MMIP) Project, DeKalb County, GA. History Team Lead. Performed resource identification and QAQC for reporting under this project, which spanned the northern arc of I-285 through Atlanta. Conducted an innovative viewshed analysis, involving graphic rendering, to assess impacts of proposed elevated structures, and performed QAQC for the Assessment of Effects.
01/11-11/18	GDOT, Section 106 Mitigation for New Echota State Historic Site, TCP, & NHL on SR 225 at New Town Creek & Coosawattee River, Gordon County, GA. Senior Transportation Planner/Historian. Supported mitigation efforts on bridge replacements within the New Echota TCP and NHL. Conducted extensive consultation with tribal partners, state agencies, and the local community. Oversaw the development of context-sensitive design measures, including the integration of a traditional Cherokee basket weave pattern into the design of both bridges, interpretive signage, restorative landscaping, and NRHP nomination for the TCP.

	Firm	AECOM Technical Services, Inc.			
	Name	Shelley Hartsfield, MA		Years of Relevant Experience with this Employer	17
	Title	Sr Archeaologist		Years of Relevant Experience with Other Employer(s)	7
Degree(s)/Years/Specialization			MA/2012/Anthropology BS/2001/Anthropology		
Active Registration Number/State/Expiration Date			N/A		
Year Registered	N/A	Discipline	N/A		
Contract Role(s)/Brief Description of Responsibilities			Sr Archeaologist. Shelley a Principal Investigator for archaeology and Certified Project Manager for AECOM's Environmental Business Line, with over 18 years' experience in Cultural Resource Management, conducting all phases of archaeological projects in the field, laboratory, and office. Shelley meets the Secretary of Interior's Professional Qualifications Standards for Archaeology and Archaeologist Qualifications as published in the Louisiana Register on April 20, 1994. Shelley meets MPR 12.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
09/20-04/22	College Drive Perkins Road to I-10, City-Parish Project No. 19-EN-HC-0033, Baton Rouge, East Baton Rouge Parish, LA. Principal Investigator. Shelley conducted the background study and coordination with the Louisiana State Historic Preservation Office regarding archaeological and historic resources for the undertaking.				
03/20-08/20	Phase I Cultural Resources Investigation of the Proposed Jones Creek Road Extension, Jefferson Highway to Airline Highway, City Parish Project N. 12-CS-HC_0060, City of Baton Rouge, East Baton Rouge Parish, LA. Principal Investigator. Shelley oversaw the archaeological field efforts and is the primary author of the Phase I investigation report.				
06/19-03/24	Phase I Cultural Resources Investigations of the Proposed Jones Creek Road Extension, Tiger Bend Road to Airline Highway, City Parish Project No. 12-CS-HC_0060, City of Baton Rouge, East Baton Rouge Parish, LA. Principal Investigator. Shelley oversaw the archaeological field efforts and is the primary author of the Phase I investigation report.				
10/15 – 07/20	Dallas to Houston High Speed Rail Archaeological Resources Survey, Federal Railroad Administration, TX. Project Archaeologist. Shelley coordinated the archaeological field effort, aided in the production of the Environmental Impact Statement contribution for cultural resources, produced the Programmatic Agreement for the project, and has coordinated with the lead federal agency and the Texas Historical Commission. She was the lead author and technical reviewer of the archaeological reports produced for this project.				
03/17-07/21	Phase I Cultural Resources Investigation of the East Gate Relocation Project, Barksdale Air Force Base, Bossier Parish, LA. Principal Investigator. Shelley oversaw the archaeological field effort, was the author of the Phase I investigation report, aided in the contribution for cultural resources to the Environmental Assessment, and conducted the preparation and submission of all records produced from the investigation, submitted to the curatorial facility at Barksdale Air Force Base.				

	Firm	AECOM Technical Services, Inc.		
	Name	Angela Hronek	Years of Relevant Experience with this Employer	1
	Title	Architectural Historian	Years of Relevant Experience with Other Employer(s)	10
Degree(s)/Years/Specialization		MA/2015/Art History BA/2011/American Studies and Art History		
Active Registration Number/State/Expiration Date		N/A		
Year Registered	N/A	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities		Architectural Historian / Section 106/HABS/HAER. Angela is a historian and architectural historian with 11 years of experience conducting cultural resource surveys, National Register of Historic Places (NRHP) eligibility evaluations and nominations, Section 106 effects assessments, and Historic Structures Reports for assessment of standing structures and built environmental assessments, meeting the Secretary of Interior's Qualifications for historic preservation. She has completed cultural resource surveys and management plans in more than a dozen states with a focus in the southeast, including in Louisiana. She has standing structures experience and built environment assessments and meets the Secretary of Interior's Qualifications for historic preservation. Angela meets MPR 13.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
03/25-Ongoing	NCDOT, Statewide On-Call Historic Architectural Services. Senior Architectural Historian, Deputy Project Manager. As deputy project manager, Angela coordinates historic architectural surveys throughout the state under open-ended contracts for NCDOT. Services include historic architectural surveys and NRHP-eligibility analyses under Section 106, as well as coordination of mitigation measures in response to MOAs and adverse effects. Work is completed for the North Carolina Department of Transportation.			
01/16-03/17	LADOTD, Louisiana Statewide Historic Bridge Inventory, Bridge Management Plans. Architectural Historian and Co-Author. Angela conducted fieldwork and assisted with preparation of several Management Plans for preservation priority bridges across the state. [Prior to AECOM]			
08/20-01/22	Wisconsin Department of Transportation, Section 106 Documentation for Replacement of the Old Highway 73 Truss Bridge in Columbus, Wisconsin. Architectural Historian and Lead Author. As project historian, Angela prepared a Determination of Eligibility for the Old Highway 73 Truss Bridge. She was also responsible for coordinating effect documentation including consultation with local historic stakeholders and a Memorandum of Agreement. The lead agency on the project was the U.S. Army Corps of Engineers. [Prior to AECOM]			

06/15-06/22	City of Racine, Section 106 Documentation for Replacement of the W. 6th Street Bridge in Racine, Wisconsin. Architectural Historian and Co-Author. Angela prepared Determinations of Eligibility for the concrete arch W. 6th Street Bridge and Root River Parks system in 2015-2016. Between 2020-2022 Angela helped coordinate mitigation measures including a salvage plan for historic bridge materials and preparation of interpretive panels covering the history of the bridge, parks, and nearby Indigenous settlements. The Wisconsin Department of Transportation served as the lead agency. [Prior to AECOM]
10/15-06/17	Oklahoma Department of Transportation, Bridging the Mighty Red: Red River Crossings Between Oklahoma and Texas, mitigation for replacement of the State Highway 79 bridge in Oklahoma. Architectural Historian and Co-Author. Angela co-authored and coordinated graphics for the book Bridging the Mighty Red, which won the National Conference of State Legislatures Notable Document Award for History and Cultural Resources in 2019. The Texas Department of Transportation also served as a reviewing agency. [Prior to AECOM]
06/18-01/19	TXDOT, Hamilton County Truss Exhibit in Hamilton, Texas. Architectural Historian and Co-Author. Angela assisted with archival research and co-wrote the interpretive panel text, which covered the history of Hamilton County's transportation network and the process of relocating the Leon River Bridge to the Hamilton County Historical Museum. [Prior to AECOM]

	Firm	AECOM Technical Services, Inc.			
	Name	Tanya McDougall		Years of Relevant Experience with this Employer	12
	Title	Sr. Architectural Historian		Years of Relevant Experience with Other Employer(s)	9
Degree(s)/Years/Specialization		MS/2008/Historic Preservation BS/2005/Historic Preservation			
Active Registration Number/State/Expiration Date		N/A			
Year Registered	N/A	Discipline	N/A		
Contract Role(s)/Brief Description of Responsibilities		Sr. Architectural Historian / Section 106/HABS/HAER. Tanya is the Cultural Resources Team Lead based in AECOM's Dallas, Texas office. She has standing structures experience and built environment assessments and meets the Secretary of Interior's Qualifications for historic preservation. Ms. McDougall has over 21 years of experience in managing and completing cultural resources investigations for state and federal agencies and private entities throughout the United States. She is well acquainted with coordinating cultural resources surveys for linear and areal projects, as well as coordinating fieldwork for archeological and historic resources and research of primary source materials to inform National Register of Historic Places evaluations. Through her experience, Ms. McDougall has been the primary author for a variety of cultural resources projects ranging in scope from background studies, reconnaissance and intensive level surveys, and mitigation for over 30 historic properties in Louisiana , Texas, Oklahoma, and Idaho. Ms. McDougall has also written multiple agreement documents, including Programmatic Agreements and Memorandum of Agreements, and has successfully coordinated the execution of those documents between federal agencies, project sponsors, and consulting parties. Tanya meets MPR 13			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
08/15-03/17	Louisiana Department of Transportation and Development (LADOTD) – Historic American Engineering Record (HAER) Documentation of 3 Louisiana Bridges. Ms. McDougall was the lead architectural historian for the HAER mitigation project, in assisting the LADOT in meeting mitigation obligation under Section 106. Ms. McDougall oversaw the tasks for the three historic properties, which included consultation with the LADOTD, the Louisiana SHPO, and FHWA.				
2/24-Ongoing	Air Products, Louisiana Clean Energy Project Vector – Historic Aboveground Resources Survey, Ascension Parish, Louisiana. Ms. McDougall conducted an aboveground historic resources survey for the Project, which included industrial and domestic type resources. In addition, Ms. McDougall conducted intensive archival research on the known cemetery located adjacent to the Project area, which was determined to be associated with enslaved people. The results of the survey were documented in the aboveground historic resources survey report and the accompanying cultural resources background study report prepared for the Project.				

12/24-09/25	Michigan Department of Transportation (MDOT) Bridge Bundling. Senior Architectural Historian. Ms. McDougall was the lead architectural historian for the documentation and NRHP evaluation of five bridge replacement projects. She conducted research and reviewed identification forms for these bridges. Ms. McDougall also assisted with and prepared Memorandum of Agreements for adverse effects to NRHP listed or NRHP eligible bridges. The documentation was coordinated with MDOT, the State Historic Preservation Office (SHPO), and other consulting parties as appropriate.
03/14-07/17	Louisiana Department of Transportation and Development (LADOTD) - Lafayette Urban Section, I-49 Connector, Lafayette Parish, Louisiana. Ms. McDougall was part of a team of architectural historians who evaluated aboveground historic resources within the project's area of potential effect for the NRHP, under Section 106 of the National Historic Preservation Act. The resources were documented on Louisiana SHPO forms and presented in report format for agency coordination.
10/14-05/25	Cultural Resources Investigation for the Texas Central Railroad Dallas to Houston High-Speed Rail Project Environmental Impact Statement, Dallas, Texas. Cultural Resources Lead. Ms. McDougall served as the Cultural Resources Lead and Senior Architectural Historian for the project and coordinated the documentation and evaluation of cultural resources with the lead federal agency and the SHPO in compliance with Section 106 of the NHPA and in support of the Environmental Impact Statement prepared for the project. She has been the primary author of over 20 technical reports produced for the project, as well as for the cultural resources section of the EIS and the resulting Programmatic Agreement. Through Ms. McDougall's efforts, the team successfully coordinated the NRHP eligibility of over 1,000 cultural resources with state and federal agencies and executed the Programmatic Agreement in July 2020.
02/14-08/14	Dallas Area Rapid Transit (DART, Historic American Engineering Record (HAER) Documentation for the Dallas Quadrangular Warren Through Truss Bridge, Dallas, Texas. Senior Architectural Historian. Ms. McDougall conducted archival research on the historic bridge and prepared a HAER Level II equivalent document for the resource, which included preparing archival quality black and white photographs, a detailed description of the resource, and an in-depth historic context. The documentation served as mitigation for the removal of the bridge from rail service and was accepted by the THC in 2014.
02/13-05/13	HAER Documentation of the Bird Creek Bridge along Route 66 near Catoosa in Rogers County, OK. (Oklahoma Department of Transportation [ODOT]). Ms. McDougall conducted intensive level archival research for the historic Route 66 Bird Creek Bridge at several repositories, including the Oklahoma State Archives, Oklahoma Historical Society archives, Oklahoma State University special archives, Rogers County Clerk, and local libraries. The primary and secondary source information collected during the archival search was used to develop a resource specific historic context, discussing the structures association and significance within the larger Route 66 corridor. In addition, Ms. McDougall prepared a detailed description of the bridge and its surroundings. The HAER documentation prepared was used by ODOT as mitigation for the removal of the structure from vehicular traffic.
05/12-02/13	HAER Documentation of 9 ODOT Bridges, Bryan, Logan, Payne, Sequoya, Okfuskee, Craig, Creek, and Pittsburg counties, OK. Ms. McDougall performed intensive level archival research for 9 bridges in various counties in Oklahoma. Repositories visited included the County Clerk's Office for each county, local libraries and archives, Oklahoma State Archives, and Oklahoma Historical Society archives. Archival quality digital photography that meets the National Park Service standards for digital photography was taken of one of the two Bryan County bridges documented during this project. One HAER was prepared for each bridge, which served as mitigation for the removal of the structures from vehicular traffic. ODOT accepted the documentation in 2013 and posted the reports on their website for public viewing.

	Firm	AECOM Technical Services, Inc.		
	Name	Jonathan Vavasseur, PWS		Years of Relevant Experience with this Employer
	Title	Wetlands/Sect. 404/Water Quality and T&E Species		Years of Relevant Experience with Other Employer(s)
Degree(s)/Years/Specialization		BS/2002/Wildlife and Fisheries Sciences		
Active Registration Number/State/Expiration Date		Certified Professional Wetland Scientist (PWS) No. 3029 / LA / 12/31/2027		
Year Registered	2018	Discipline	n/a	
Contract Role(s)/Brief Description of Responsibilities		Wetlands/Sect. 404/Water Quality and T&E Species. Jonathan is a certified Professional Wetland Scientist and Regulatory Permitting Specialist with over 21 years of experience in environmental, regulatory, and ecological consulting with a strong concentration in wetland ecology. He has served as the team leader and field coordinator for environmental project teams. Jonathan has led various projects that range from wetland delineations, threatened and endangered (T&E) surveys, biological assessments, and environmental site assessments throughout the southeast U.S. for federal and state agencies, municipalities, and private clients. Jonathan meets MPR 14.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
05/23-09/23	Biodiversity Diversity Assessment, Total Energies, Carville, LA. Performed biodiversity field assessment and prepared biodiversity assessment for existing chemical manufacturing plant. Analysis included a review of potential plant and animal species, included species listed under the US Endangered Species Act, and protected habitats adjacent to and in the vicinity of the site. Additional screenings were conducted for world heritage sites, alliance of zero extinction, key biodiversity areas, IUCN red list, and local environmental databases. Analysis included a review of potential risks to biodiversity from existing practices. Recommendations included improvements to existing processes, restoration of habitats to increase biodiversity.			
05/25-Ongoing	Louisiana Department of Transportation and Development (LADOTD) Bundled Bridges. Environmental Manager responsible for conducting NEPA evaluations, wetland delineations and Threatened and Endangered Species surveys on eleven proposed bridge replacement projects located in Pointe Coupee, Rapides, St. Helena, St. Tammany, Vernon, and Winn Parishes, Louisiana.			
05/21-Ongoing	Louisiana Clean Energy Project – Air Products and Chemicals Inc., Senior Project Biologist and Field Lead responsible for conducting wetland delineations, sensitive resources surveys, habitat assessments, mitigation planning, and permitting for a proposed carbon sequestration facility and associated pipelines located in Ascension, Assumption, Livingston, and St. John Parishes, Louisiana.			
06/22-12/24	EDPR Ragsdale Solar Facility. Project Manager and Senior Project Biologist responsible project execution, conducting wetland delineations and sensitive resources surveys for a proposed 1,216-acre solar facility located in Madison County, Mississippi.			
11/22-05/23	EDPR Crooked Lake Solar Facility, Senior project biologist and permitting specialist responsible for conducting wetland delineations, sensitive resources surveys, and habitat assessments for a proposed 2,575-acre solar facility located in Mississippi County, Arkansas.			

11/20-04/21	City of East Baton Rouge, College Drive Corridor Improvements, East Baton Rouge, LA. Senior Project Biologist/Permitting Specialist. Conducted wetland delineations and T&E Surveys as well as Section 404/10 Permitting for all roadway segments within the proposed improvement corridors.
07/14-07/15	US Army Corps of Engineers (USACE), Wetland Delineation and Reporting, Baton Rouge, LA. Lead Field Biologist and Project Coordinator responsible for conducting wetland delineations and technical reporting for an approximate 220-acre tract owned by the Baton Rouge Metropolitan Airport.
08/15-08/18	Louisiana Department of Transportation and Development (LADOTD), FHWA Funded Highway Projects, Statewide, LA. Environmental Impact Specialist - DCL (Biologist) responsible for coordinating and overseeing all wetland projects for LADOTD. Lead biologist responsible for coordinating all linear and tract wetland delineations and technical reporting for federally funded highway projects statewide. Work included serving as the environmental coordinator, coordinating and conducting the wetland and T&E field surveys, NEPA processing for federally-funded highway projects, as well as technical reporting for state highway projects
07/20-09/20	City of East Baton Rouge, Jones Creek Road Extension Project, East Baton Rouge, LA. Senior Project Biologist/Permitting Specialist. Conducted Wetland Delineation and T&E Surveys as well as Section 404/10 USACE Permitting
02/19-08/20	Department of Defense, Wetland and T&E Surveys, NASJRB New Orleans, LA. Project Manager and Senior Project Biologist responsible for conducting wetland and T&E species field surveys, technical reporting and NEPA documentation for a 500+ acre proposed vegetation clearing project for the Department of Defense.
06/19-12/19	Department of the Airforce, East Gate Relocation, Barksdale Air Force Base, LA. Senior Project Biologist. Conducted Wetland Delineations for the Proposed Gate Relocation and New Roadway.

	Firm	T. Baker Smith, LLC		
	Name	Cy Toups, PE	Years of Relevant Experience with this Employer	19
	Title	Wetlands/Sect. 404/Water Quality/Coastal Us and T&E Species	Years of Relevant Experience with Other Employer(s)	4
Degree(s)/Years/Specialization		BS/2002/Environmental Engineering		
Active Registration Number/State/Expiration Date		PE# 33966/LA/09.30.2026		
Year Registered	2008	Discipline	Environmental	
Contract Role(s)/Brief Description of Responsibilities		Wetlands/Sect. 404/Water Quality/Coastal Use and T&E Species. Cy is a Louisiana-licensed environmental engineer focused on NEPA processes, environmental assessments, and regulatory compliance. With 22 years of experience in the industry, Cy leverages his diversified environmental and regulatory experience to perform due diligence on powerline transmission projects, commercial developments, and public infrastructure improvements that benefit our communities. Cy's passion for improvement in our communities is shown in his commitment to the NEPA process to help strengthen project success and implementation. Cy maintains the following certifications: FHWA-NHI-142005 NEPA and the Transportation Decisionmaking Process, as well as ATSSA Traffic Control Supervisor and Traffic Control Technician. Cy meets MPR 14.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/20-10/21	LADOTD, Districts 04, 05, 08, 58, Contract 44-17598 – Rural Bridge Replacement Initiative Phase I. Environmental Lead / Engineer. Performed QC review of wetland delineation field work and report preparation, T&E Species, prepared Solicitation of Views letters, NEPA Categorical Exclusion Documents, and regulatory permit applications for the replacement of 47 bridge structures.			
05/21-Ongoing	LADOTD, Districts 04 and 05, Contract 44-19336 – Rural Bridge Replacement Initiative Phase II. Environmental Lead / Engineer. Performed QC review of wetland delineation field work and report preparation and endangered T&E species , prepared Solicitation of Views letters, NEPA Categorical Exclusion Documents, and regulatory permit applications for the replacement of 40 bridge structures.			
03/19-05/21	LADOTD, S.P. No. H.0115116, LA 20 Widening (LA 307 to S. Vacherie), St. James and Lafourche Parishes, LA – Environmental Professional. Prepared NEPA document (Categorical Exclusion), developed and edited NEPA documents with LADOTD/FHWA comments, stakeholder comments, public meetings, wetland delineation, T&E reporting, alternative analyses, farmlands and mitigation justification, assisted with USACE, LADNR and USCG permit drawings for the 2.5-mile roadway widening and bridge replacement project.			
05/23-Ongoing	LADOTD District 08, Contract 44-25027, Infrastructure Investment and Jobs Act (IIJA) Off System Bridge Program, LA. Environmental Lead / Engineer. Performed QC review of wetland delineation field work and report preparation , prepared Solicitation of Views letters, NEPA Categorical Exclusion Documents and regulatory permit applications for the replacement of 12 bridge structures in District 08.			
02/18-12/22	LADOTD, S.P. No. H.015688, LA 3127 Extension, Ascension Parish, LA. Lead Environmental Professional. Prepared preliminary environmental evaluation report including Phase I ESA, wetland delineations, Threatened and Endangered Species , alternative analysis, SHPO coordination. Assisted with preparation of LADOTD Stage 0 Feasibility Study and led Environmental Assessment (EA) NEPA document preparation upon approval of Stage 0 for the 7-mile, 4-lane rural arterial roadway extension.			

	Firm	AECOM Technical Services, Inc.			
	Name	Joshua Amsler, PE		Years of Relevant Experience with this Employer	15
	Title	Railroad Coordination		Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization		BS/2009/Civil Engineering MS/2010/Structural Engineering			
Active Registration Number/State/Expiration Date		PE 081742 / PA / 9/30/2027 PE Licenses in MD, WV, NC, VA			
Year Registered	2014	Discipline	Civil Engineer		
Contract Role(s)/Brief Description of Responsibilities		Railroad Coordination. Joshua is a Project Manager in the Goods Movement Market Sector with extensive experience in the design, inspection, and construction of railway and highway projects. He currently serves as Program Manager for the CSX Public Projects Program and is leading the update of the CSX Public Projects Manual. Previously, he was a Senior Project Engineer with the Norfolk Southern Public Improvement Projects Program. Through his work with both CSX and Norfolk Southern, Josh has reviewed hundreds of projects on behalf of the railroads and has developed a deep understanding of railroad requirements, processes, and schedules.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
05/18-Ongoing	CSX Corporation, General Engineering Consultant Services, Maryland, District of Columbia, Virginia, West Virginia, North Carolina. Program Manager for public projects impacting the railroad. Working with CSX, the outside party, the designer, and the contractor to facilitate the design and construction of various projects without impacting present and future railroad operations. Projects include overhead bridge rehabilitations/replacements, undergrade bridge rehabilitations/replacements, adjacent construction, and at-grade crossing modifications. Responsible for generating AECOM's and CSX's cost estimates, plan reviews, organizing and attending project preconstruction and progress meetings on behalf of CSX, coordinating project construction schedules with CSX personnel and train operations, construction submission reviews, and oversight of review/field staff. Working on the current update to the CSX Public Projects Manual.				
08/24-Ongoing	North Carolina Department of Transportation, Raleigh to Richmond (R2R) North Carolina Rail Design – Segment NC-PE-1, Warren & Vance County, North Carolina. Project Manager for the Preliminary Engineering for the Rail Design for the northern most segment in North Carolina (Segment NC-PE-1). Segment NC-PE-1 consists of approximately 15 miles of track design including approximately 9 miles of abandoned S-Line and 6 miles of active track. The Preliminary Engineering (30%) design includes track design, one undergrade bridge replacement, hydraulic design including five major drainage structures, ES&C design, utility coordination, and geotechnical investigation/recommendations.				
07/21-06/23	Pennsylvania Department of Transportation, State Highway-Rail Grade Crossing Action Plan. Project Manager for the preparation of the Pennsylvania State Highway-Rail Grade Crossing Action Plan (SAP) as required by the Federal Railroad Administration. Reviewed available data for over 3,500 crossings in the state, identified a subset of high-risk crossings, identified trends in the high-risk crossings, prioritized the top 50 high-risk crossings, and developed implementation strategies and a timeline to further assess and improve safety at the top high-risk crossings.				

07/21-06/23	Pennsylvania Department of Transportation, State Highway-Rail Grade Crossing Action Plan. Project Manager for the preparation of the Pennsylvania State Highway-Rail Grade Crossing Action Plan (SAP) as required by the Federal Railroad Administration. Reviewed available data for over 3,500 crossings in the state, identified a subset of high-risk crossings, identified trends in the high-risk crossings, prioritized the top 50 high-risk crossings, and developed implementation strategies and a timeline to further assess and improve safety at the top high-risk crossings
12/19-0422	CSX Corporation, CSX-MTA (MARC) Joint Benefits Program. District of Columbia and Maryland. Project Manager for various projects benefiting both CSX and MTA (MARC). Responsibilities included oversight of design approach, weekly coordination with all project stakeholders, construction submission/RFI review, preparation of as-builts, and preparation/handling of Addendums (reimbursement agreements). Notable projects include Jessup Automotive Support Yard Lead and Ladder Improvements, Carroll Interlocking Expansion and Deflection Walls, Lansdowne Interlocking Expansion, and West Baltimore Interlocking Expansion.
06/10-05/19	Norfolk Southern Corporation, General Engineering Consultant Services, Systemwide. 2010 to 2021. Senior project engineer for public projects impacting the railroad. Working with Norfolk Southern (NS), the project sponsor, the designer, and the contractor to facilitate the design and construction of various projects without impacting present and future railroad operations. Projects include overhead bridge rehabilitations/replacements, undergrade bridge rehabilitations/replacements, adjacent construction, and at-grade crossing modifications. Responsible for generating AECOM's and NS's cost estimates, plan reviews, organizing and attending project preconstruction and progress meetings on behalf of NS, coordinating project construction schedules with NS personnel and train operations, construction submission reviews, and oversight of review/field staff. Involved in the development of AECOM's access database used to manage AECOM's public projects program.
04/17-12/19	Norfolk Southern Corporation, Fountain Street Superstructure Replacement, Philadelphia, Pennsylvania. Deputy project manager for superstructure replacement and substructure rehabilitation for the bridge carrying Fountain Street over Norfolk Southern. Responsibilities include overseeing the design approach, coordinating with the client, coordinating with impacted property owner and city, and managing the budget.
06/16-05/19	Delaware River Port Authority, Betsy Ross Bridge Maintenance, Philadelphia, Pennsylvania. Senior structural engineer for inspection and design of the 3-phased painting and steel repair for the bridge. Responsibilities included leading the hands-on inspection for thru-truss and deck-truss portions of the bridge and developing the preliminary design report, repair details, construction plans, technical specifications, and cost estimate.

	Firm	AECOM Technical Services, Inc.		
	Name	Sreeni Bollu, PE	Years of Relevant Experience with this Employer	4
	Title	Hydrology/Hydraulics	Years of Relevant Experience with Other Employer(s)	18
Degree(s)/Years/Specialization		MS/2003/Civil Engineering		
Active Registration Number/State/Expiration Date		PE 0034330/LA/03.31.2027 Additional active license: TX, FL, AR, GA, AZ		
Contract Role(s)/Brief Description1 of Responsibilities		Hydrology/Hydraulics. Sreeni is a civil engineer with over 21 years of experience in all phases of project development from conceptual design to construction management. He is in charge of project management and the civil engineering personnel, including schedules, staff, budgets, technical review and account management. He has provided professional consulting services to numerous public and private clients, serving as Project Manager or Project Engineer on roadway improvements, drainage studies, hydraulic models and designs, drainage improvements, bridge/ culvert scour analysis, levees, flood control projects, site developments, commercial & residential subdivisions, and construction management.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
02/25-Ongoing	LADOTD Bridge Preventative Maintenance IDIQ (Bridge Bundle), Statewide. Hydraulic Task Manager responsible for design services for the replacement of (11) bridges in central and southeastern LA within Districts 08, 61, and 62. The (11) bridge replacements were bundled into (4) construction packages and delivered using a staggered preliminary and final design scheduling approach. With the goal of delivering the four (4) bundled construction packages within a 9 to 10 month duration.			
06/21-Ongoing	Jefferson Parish West Bank Program Management, Jefferson Parish, LA. Project Manager assisting with the implementation of the West Bank projects for Jefferson Parish's Road Bond Improvement Program, which consists of thirty (30) roadway, pedestrian/bike path, and bridge improvement projects located on the West Bank of Jefferson Parish. Mr. Bollu is responsible for the oversight of approximately 10-15 projects, including overseeing the design contractor's work, coordinating review with various Parish Departments, public and private utility companies, and other impacted agencies. Other responsibilities include review of plans and specifications submittal, scheduling, coordination for environmental clearances, ROW acquisition support, construction oversight, and project closeout.			
06/21-Ongoing	Broadmoor Groups D & E, New Orleans, LA. Project Manager for the fast-track development of construction plan sets for reconstruction of multiple roadways in the Broadmoor neighborhood of New Orleans. The project consists of full reconstruction of the roadways, replacement of all drainage and water lines, sidewalk replacement/repairs, and the installation of ADA ramps at all intersections. The project is currently in final design and will advance to Construction Phase.			
06/21-Ongoing	Milan Group A (New Orleans Department of Public Works, New Orleans, LA). Project Manager for the development of construction plan sets for reconstruction/restoration of multiple roadways in the Milan neighborhood of New Orleans, which is bounded by Napoleon Avenue, Claiborne Avenue, Louisiana Avenue and St. Charles Avenue. The project will consist of milling and overlaying with full depth patching of selected streets, incidental patching of other streets, sidewalk repairs, incidental repairs to drainage structures, and the installation of handicap ramps. The project is currently in Construction Phase.			

06/21-Ongoing	College Drive Enhancements, Perkins Rd to I-10, Baton Rouge, LA. AECOM was selected by East Baton Rouge Parish, through the MOVEBR Program, to provide engineering services on College Drive corridor. AECOM has developed plans to promote mobility and capacity along the College Drive Corridor. These plans include a Phase construction approach to minimize impacts to the drivers while enhancing and creating capacity to the overall corridor. The conceptual plan contains 4 Phases of work, with two projects within each Phase. Phase 1, consist of two projects: College Drive Backage Road through Hobby Lobby and Concord Avenue West Extension. The existing Concord Avenue Road segment will be re-aligned to provide a more direct intersection on both the east and west side of College Drive. The realignment of Concord Avenue and the proposed Backage Road will require a review of the existing drainage patterns and an analysis of proposed drainage. Mr. Bollu performed the H&H calculations, bridge/culvert scour analysis, design of the subsurface systems, inlets and preparation of the drainage report.
06/21-Ongoing	Mid-Barataria Diversion Design, (Coastal Protection and Restoration Authority (CPRA)). Project Engineering for the planning, engineering, and design services for the creation of the Mid-Barataria sediment diversion basin to strategically reintroduce sediment and freshwater inputs into the Barataria Basin. Mr. Bollu performed detour roadway alignment creation/selection, roadway plan preparation, and draingae design.
03/25-Ongoing	LA44 over Maurepas Swamp Diversion, (Coastal Protection and Restoration Authority (CPRA)). Hydraulic Engineer for the proposed improvements along the 0.5 mile segement of LA44. H&H analysis & design, coordination with the proposed Maurepas Swamp Diversion to predict future drainage patterns for the final design.
06/21-Ongoing	Louisiana Watershed Initiative (LWI), Statewide Louisiana Modeling and Data- Mr. Bollu, served as Deputy Project Manager, facilitated bi-weekly calls and requested meetings, advancing program modeling decisions. He contributed to the development of hydrology and hydraulics (H&H) modeling methodology and Design Storm Guidance. Project Evaluations- Mr. Bollu supported the review of potential Round 1 and Round 2 projects, conducted H&H analyses, and provided recommendations for design support. Survey-At the request of the program, Mr. Bollu facilitated the development of survey guidance to define data collection and reporting requirements. Design Support Program (DSP) projects- Reviewed Hydrologic and Hydraulic (H&H) models and reports submitted by consulting firms as part of Design Support Program (DSP) projects; provided technical comments and collaborated closely with consultants to ensure compliance with Louisiana Watershed Initiative (LWI) program policies, procedures, and H&H guidelines (checklist). Round 2 projects- AECOM is responsible for approximately 15 infrastructure and mitigation projects in low-and moderate-income communities impacted by the 2016 floods. Mr. Bollu is serving as a technical advisor/ H&H lead and performed the QA/QC of the H&H models and reports for Fairfield and Oakland Pump station (St. Charles Parish), Turtle Pond Pump station (St. Charles Parish), Detention in W-14 Basin (St. Tammany Parish), Greenwich Terrace (Calcasieu Parish) and 6th Street (The City of Lake Charles).

	Firm	AECOM Technical Services, Inc.		
	Name	Daniel Boyd, PE, CBI	Years of Relevant Experience with this Employer	7
	Title	Deputy Project Manager, Bridge Design Task Lead, Bridge Rehabilitation	Years of Relevant Experience with Other Employer(s)	13
Degree(s)/Years/Specialization		BS/2006/Civil Engineering		
Active Registration Number/State/Expiration Date		PE.0036728/LA/03-31-2028 Additional active licenses: MS, TX, and AR AECOM Certified PM		
Year Registered	2011	Discipline	Civil Engineer	
Contract Role(s)/Brief Description of Responsibilities		Deputy Project Manager. Daniel has 20 years of structural engineering experience in the transportation industry, specializing in bridge design and structural discipline management. His DOTD work includes serving as Project Manager for the ongoing US 190: Opelousas Overpasses project, Deputy Project Manager on the Bridge Preservation IDIQ and Movable Bridge Inspection projects, and inspector on Complex Bridge Inspection IDIQ. His technical experience encompasses design of bridges crossing navigable waterways, steel girder design, precast/prestressed concrete girder design, structural steel design, structural concrete design, retaining walls, and drilled shaft and driven pile foundations design. Daniel has also completed DOTD's Historic Bridge Training and is an NHI certified bridge inspector. He has a thorough working knowledge of AASHTO and Louisiana DOTD Standards, and through his project experience, understands the project delivery process required to guide a transportation project from an idea to a constructed reality.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
02/23-Ongoing	DOTD, Bridge Preventative Maintenance IDIQ, Statewide, LA. Deputy Project Manager. Served as a Deputy Project Manager and structural task manager for multiple Task Orders as part of AECOM's ongoing Bridge Preservation IDIQ contract. Engineer of Record in Responsible Charge for final bridge design of a replacement bridge structure project (H.015603) for LA 10 Bridge over Bayou Carron, providing design and calculations, as well as oversight and discipline coordination, for the entirety of the structural scope of the project. For LA 561 Bridge over Boeuf River (H.001970), provided preliminary bridge and foundation design, discipline coordination, and coordination with DOTD. Engineer of Record in Responsible Charge for LA 641 Bridge over I-10 (H.015603), performed bridge inspection services, load ratings, and bridge repair details and calculations to mitigate damage by equipment impact to the bridge.			
05/25-Ongoing	DOTD, Movable Bridge Rehabilitation Contract #1, Orleans, Cameron, Iberia, Terrebonne, and St. Tammany Parishes, LA. Deputy Project Manager and Structural Discipline Leader for Fixed Spans. Team lead for inspections of fixed spans, developing site work safety plans for each of the five bridges, review of inspection reports prior to submittal, and coordination with load rating team members on all five bridges. Coordinating with other disciplines to develop scopes of work, cost estimates, and schedules for repair and rehabilitation for each of the five bridges. Completed DOTD's Historic Bridge Training as required for this project.			
04/25-Ongoing	DOTD, US 190: UPRR Overpass Near Opelousas, St. Landry Parish, LA. Project Manager and Structures Discipline Leader in Responsible Charge for this multi-discipline project that is currently providing preliminary and final design services for resurfacing and/or reconstruction and widening US 190 east of the I-49/US 190 Interchange near Opelousas, LA. This project includes bridge replacements over Little Teche Bayou and UPRR and retaining walls near the UPRR tracks, roadway design, supplemental design survey, and bridge hydraulic design and analysis. Extensive railroad coordination will be required for the bridge replacements crossing the UPRR tracks. This coordination is currently in progress with DOTD's Rail Coordinator, Shawn Luke.			

07/25-Ongoing	DOTD, IDIQ Contract for In-Depth Bridge Inspection, Statewide, LA. Structural Inspector. Performed emergency inspection of the Bayou Dularge Bascule Bridge (H.009730.5) following DOTD observations of bascule rocking during bridge operation. Worked closely with team to develop repair plans and provide construction coordination. Also participated in multiple routine structural inspections and weathering steel patina inspections.
01/20-Ongoing	TxDOT, LBJ East Design-Build Project, Dallas, TX. Structural Task Leader / Engineer of Record in Responsible Charge (01/2020 – 02/2021) for the design of Ancillary 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 drilled shaft foundations for each structure. Serving as the bridge structural task leader in Responsible Charge (03/2022 – present) during Design Services During Construction (DSDC) phase serving as Engineer of Record on drawing and/or calculation revisions, answering RFI's, developing solutions to field/construction issues, etc. Requires extensive coordination with other disciplines and the construction contractor to provide timely, efficient solutions to maintain construction schedules.
10/20-04/25	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. Provided engineering support during Design Services During Construction (OSCO) phase to answer RFI's, resolve field issues, review shop drawings, and perform calculations necessary for changes made during construction. Task leader in Responsible Charge and EOR for the final as-built Load Ratings for all new bridges on the project (03/24 – 06/24).
03/21-06/24	TxDOT, Oak Hill Parkway, Austin, TX. Design Engineer. Design engineer for one bridge package, providing analysis and design for multiple substructures and drilled shaft foundations, Independent Design Check (IDC) engineer for the design of three prestressed bridge packages, and IDC engineer for all Overhead Sign Structures and Toll Gantry 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 DSDC phase to answer RFI's, resolve field issues, and review shop drawings. Provided layout, design, and calculations necessary for Retaining Walls and drilled shaft foundations that were modified during DSDC phase. Task leader and EOR for the final as-built Load Ratings for all new bridges on the project.
04/20 - 11/20	Port of Gulfport, Port of Gulfport Connector, Gulfport, MS. Deputy Project Manager and Structures Discipline Leader in Responsible Charge for preliminary structural design. The project performed a preliminary layout and design for a new bridge structure to carry 30th Ave. across Hwy. 90 to provide direct trucking and heavy haul access to the Port of Gulfport. Performed geometric layout, preliminary structural design for prestressed concrete girders and steel plate girder superstructures, and preliminary substructure design for the new bridge.
04/21 - 09/23	City of Austin, William Cannon RR Overpass, Austin, TX. Structures Discipline Leader in Responsible Charge. Provided engineering design to support the rehabilitation and preservation of the existing William Cannon RR Overpass bridge. Structural scope included retaining wall repair utilizing soil nails to stabilize existing wall movement, barrier and sidewalk moment slab reconstruction, bridge joint repair, and new fencing on the bridge meeting RR specifications.
10/06 - 08/11	DOTD, US 71/165 Fort Buhlow Bridge/KCS Railroad Overpass, Alexandria, LA. Structural Design Engineer. Performed design of 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.

	Firm		AECOM Technical Services, Inc.		
	Name	Brett Canimore, PE		Years of Relevant Experience with this Employer	26
	Title	NBIS Inspections/Reporting		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			053513E/PA/09.30.26 Additional active license: MI, MD, GA, DE, MT, NJ, NY		
Year Registered	1999	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			NBIS Inspections/Reporting. Brett has more than 34 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 15,000 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 (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
05/25 – Ongoing	LADOTD Contract No. 44-29684 State Project No. H.009730.5, IDIQ Contract for In-Depth Bridge Inspection of Complex Structures, Statewide, LA. Project Manager for this five-year retainer contract to perform in- depth bridge inspections of assigned complex structures. Assigned bridges in 2025 include the routine NBIS, NSTM and in-depth mechanical and electrical inspection of movable bridges LA 82 over Superior Canal in Cameron Parish, LA 22 over Tchefuncte River in Tammany Parish and LA 315 over Bayou Dularge in Terrebonne Parish. The project also included an emergency inspection, and repairs of the trunnion support towers at the LA 315 twin bascule bridge over the Bayou Dularge.				
02/23-Ongoing	LADOTD Contract No. 44-21593, IDIQ for Bridge Load Rating Services, Statewide, LA. Project Manager for this ongoing 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	LADOTD Contract No. 44-02687 State Project No. H.009730.5, In-Depth Inspection of Complex Structures, Statewide, LA. Project Manager 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) 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				

04/24-Ongoing	Delaware River Port Authority (DRPA), Betsy Ross Bridge over Delaware River 2024 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. 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-Ongoing	PennDOT District 6-0, Agreement E05073, NBIS Inspection of 429 State Owned Bridges in Philadelphia County, PA. Project Manager for the 2-cycle contract focusing on structures within the high ADT I-95, US Route 1, and I-76 corridors. Some of the bridges, particularly on I-95 where several viaducts extend over one mile in length, are much longer than bridges in other areas of the state. 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-Ongoing	PennDOT District 4-0, Agreement E04957, NBIS Inspection of Large / Complex Bridges. Project manager for 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.
05/20-Ongoing	Puerto Rico Highway and Transportation Authority (PRHTA), NBIS Safety Inspection of In-Service Bridges in Puerto Rico (2020-2026). Project Manager for the professional services agreement to provide NBIS bridge safety inspection services of assigned bridges throughout Puerto Rico. Inspection work was completed in accordance with PRHTA’s Bridge Inspection Procedures and Policies Manual, NBIS, FHWA, and AASHTO. Currently, AECOM has completed more than 1,000 inspections including routine, fracture critical and special inspections. 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 and the development of the tunnel inspection manual. Other task orders included using drones (unmanned aerial systems) to inspect several bridges including the Antirantado Jesús Izcoa Moure cable stayed bridge in Naranjito, development of the PRHTA Tunnel Safety Inspection Manual, and the development of the PRHTA Standard Operating Procedure – Bridge Safety Inspection Manual. Reports were prepared for each inspection including condition assessments and element level reporting.
04/22-04/24	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.

	Firm	AECOM Technical Services, Inc.		
	Name	Derek Chisholm, AICP, LEED	Years of Relevant Experience with this Employer	10
	Title	NEPA	Years of Relevant Experience with Other Employer(s)	23
Degree(s)/Years/Specialization		BS/1993/Organizational Management MPA/1997/Environmental Planning Specialty		
Active Registration Number/State/Expiration Date		FHWA-NHI-142005 NEPA and Transportation Decision-Making Nov 4-6, 2014 American Institute of Certified Planners #147159 2011 LEED Green Associate (#10148303) 2014 Envision Sustainable Professional Certified in Charrette Management by National Charrette Institute (2006)		
Year Registered	2011	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities		NEPA. Derek is a senior-level NEPA expert and Project Manager, living in Louisiana, with over twenty-five years of progressive experience. He has managed complex, conceptual planning and NEPA studies for different State DOTs, FHWA, and FTA. Derek was recruited from the public sector in by a regional consulting firm, Parametrix, Inc., in Portland Oregon. He was hired to work on the Columbia River Crossing, at the time the largest public works project on the West Coast. The project included conceptual design and NEPA for a new Interstate bridge across the Columbia River. The project faced numerous challenges related to displacements, endangered species, and the need to acquire property from a National Landmark. He was co-located with the various agencies and contractors on a multi-year effort that resulted in committed federal funding, a Record of Decision, local and federal permits, a well-developed conceptual design, and a design-build procurement package. He started as the Built Environment Manager, and later managed the entire NEPA team. This multi-year assignment helped him develop expertise in managing complex projects with multi-disciplined teams. He is a very experienced manager; his two degrees have a management focus, and he currently trains and oversees all AECOM Transportation Project Managers in the Gulf South. His projects are routinely delivered ahead of or on schedule and for the originally contracted value. Derek has contributed to numerous other EIS's and EA's Nationally and has spent years working closely with the local AECOM team on projects including the I-49 Lafayette Connector and the Jimmie Davis Bridge. Derek, and the projects that he has helped lead, have won numerous awards, some of which are shown below. In 2014, after 14 years of experience in Portland, Oregon, including work as an Adjunct Professor and service as the Chair of his local Planning Commission, Derek moved back to the South, to work with URS in New Orleans. Following the AECOM/URS merger, he became an Associate Vice President with AECOM. In 2016, Derek was elected the President of the Louisiana State Chapter of the American Planning Association. In 2018, he contributed chapters to the books Bicycle Urbanism and the ASCE's Engineering for Sustainable Communities.		

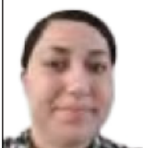
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
05/25-Ongoing	LADOTD, Bundled Bridges, LA. Planner. Responsible for overseeing field investigations, environmental permitting, development of environmental checklists, and nine Categorical Exclusions.
10/16-Ongoing	LADOTD State Project No. H.004273.5, I-49 Lafayette Connector Project, Lafayette, LA. The team is currently completing the Functional Plan for the I-49 corridor in Lafayette is structured around a context sensitive solutions approach. Derek serves as the bridge between the public and stakeholder involvement of the CSS process and the environmental team. Derek set up the comment management system and is facilitating the Section 106 consultation.
03/19-Ongoing	Windsor-Detroit Bridge Authority, Gordie Howe International Bridge, Detroit, MI to Windsor Canada. AECOM is delivering the longest span bridge in North America. Mr. Chisholm is assisting the project based on his previous experience working on sustainable design and construction issues for similar projects. He is helping in the pursuit of both LEED and ISI Envision certifications for the bridge and portals.
11/17-04/20	LADOTD State Project No. H.001779.2, Jimmie Davis Bridge Supplemental EA, Bossier and Caddo Parishes, LA. Derek has served as a Senior Advisor on this project, providing quality control review and assisting on complex issues related to bicycling connectivity, Section 4(f) and the final FHWA comments on the preliminary, draft Supplemental Environmental Assessment.
03/06-02/13	Columbia River Crossing, Portland, OR. This project included multi-modal improvements between Portland Oregon and Vancouver Washington, including the extension of the Portland Light Rail Transit system. As the Consultant Environmental Team Manager, Derek worked with the design and construction teams to prepare an environmental documentation, plan amendments, and numerous impact analyses. He helped secure a Record of Decision and several permits. The environmental work won the: National Environmental Excellence Award for its Climate Change Evaluation and the Fish Hydroacoustics Impacts Study.
05/10-08/13	Clackamas River-Springwater Road Bridge – Clackamas, OR. This project developed and evaluated alternative river crossings in the core of Carver, Oregon. Derek led the public involvement discussions and aspects of the alternatives analysis. He also led the NEPA process.
07/08-09/10	Willamette River Bridge (Tilikum Crossing). Portland OR: Derek supported the built environment analysis for this project, assisted with the design (elements related to complete streets and the approaches). HE also worked on a shared environmental 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. This project won numerous awards, mostly for design, and it was the first bridge built in the US exclusive to transit, bicycles, and pedestrians: 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	Oregon DOT, Bridges Visual Performance Standards– Oregon Statewide: Derek led a team of ODOT project management specialists, engineers, visual specialists, and others in preparing the visual performance standards (VPS) for the Oregon Transportation Investment Act (OTIA) III State Bridge Delivery Program. The VPS established context sensitive, performance-based and programmatic aesthetic guidelines and standards for bridge repair or replacement projects. Derek managed the field investigations of over 200 bridges, and prepared visual context data sheets from which each bridge's visual exposure and prominence in the visual environment was assessed for placement in one of four "Bridge Family" rankings (Gateway, high, moderate or low). The VPS also included a "How To Guide" for developing VPS's for other corridors within the OTIA III State Bridge Delivery Program, which included over 350 bridges statewide.

	Firm	AECOM Technical Services, Inc.			
	Name	Rob Dean, PE		Years of Relevant Experience with this Employer	30
	Title	Bridge Rehabilitation		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		PE.0046730/LA/09.30.2026 Additional active licenses: VA			
Year Registered	2022	Discipline	Civil Engineer		
Contract Role(s)/Brief Description of Responsibilities		Task Manager/Sr. Bridge Engineer. 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. Rob is a nationally certified Bridge Inspection and Tunnel Inspection Team Leader.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
07/25-Ongoing	LADOTD, Project No. H.013832, Grand Ecore Bridge Rehabilitation Study, Grand Ecore, LA. Senior Bridge Engineer for development and evaluation of bridge rehabilitation alternatives. LADOTD has commissioned AECOM to perform preliminary study of rehabilitation alternatives for the bridge carrying LA 6 over the Red River (Grand Ecore Bridge). The existing structure is 1875 feet long with main spans up to 375 feet. AECOM is evaluating bridge superstructure and substructure rehabilitation alternatives for multiple service life scenarios based on initial cost, durability, constructability, and impacts to traffic.				
04/20-04/24	VDOT, Rehabilitation of Interstate 77 Bridges over Clear Fork Creek, Bland County, VA. Task Manager for 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.				
11/20-06/23	VDOT, Route 360 Corridor Evaluation of 22 Structures, Fredericksburg District. Task Manager with responsibility 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.				

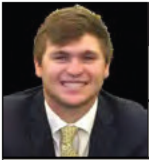
08/15-11/20	VDOT, Route 685 over Craig Creek (Phoenix Bridge), Botetourt County, VA. Task Manager with responsibility for bridge design and construction plans. AECOM was commissioned by VDOT to provide engineering services for this project to rehabilitate two 120-year-old steel truss spans over Craig 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 with responsibility 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.
04/17-02/24	VDOT, Rehabilitation of Five Structures in the Lynchburg District, VDOT Lynchburg District, VA. Task Manager with responsibility 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.
02/18-08/20	VDOT, Route 683 and Route 730 Bridges, Virginia DOT Lynchburg District. Task Manager for this task and 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 with responsibility 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.
04/11-05/11	VDOT, I-81 over Reed Creek Bearing Replacement, Wythe County, VA. Senior Bridge Engineer for this project with responsibilities for field assessment, design of emergency bearing repairs, and preparation of construction plans. AECOM was commissioned by VDOT to perform emergency inspection and prepare emergency repair plans for tilted steel rocker bearings.
02/17-09/21	VDOT, Route 58 over NS Railway, Norton, VA . Senior Bridge Engineer and Engineer of Record for this task to rehabilitate the superstructure of this steel girder bridge with a total length of 570 feet and a width of 76 feet. Rehabilitation plans included fatigue cracking retrofit, concrete deck overlay, bearing replacement, and substructure repair.

	Firm	AECOM Technical Services, Inc.			
	Name	Sanket Dhatkar, PE, SE		Years of Relevant Experience with this Employer	9
	Title	Movable Bridge Engineer		Years of Relevant Experience with Other Employer(s)	3
Degree(s)/Years/Specialization		MS/2013/ Civil Engineering BS/ 2010/ Civil Engineering			
Active Registration Number/State/Expiration Date		#50367/LA/09.30.2027 Active license in: CA, FL, WI, KY, IN, OH, IL			
Year Registered	2016	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Movable Bridge Engineer. Sanket is a structural project engineer in the Chicago office with eleven years of progressive experience in designing, load rating and inspecting various structures related to transportation infrastructure. Design experience includes movable bridges, steel truss bridges, curved and straight steel girder bridges, precast prestressed concrete beam bridges, retaining walls, noise abatement wall mounted on top of retaining wall, cast in place box culverts, moment slabs with noise walls, etc. Inspection experience includes movable bridges, roadway bridges and railroad structures. Load rating experience includes bascule/movable bridges, steel girder bridges, timber bridges.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
07/23 - Ongoing	Wisconsin Department of Transportation, West Cherry Street Bascule Bridge over the Milwaukee River, Milwaukee, Wisconsin. Lead Structural engineer responsible for the coordination of structural tasks for Phase II design and phase III construction of the West Cherry Street bascule bridge over the Milwaukee River located in downtown Milwaukee. The West Cherry Street Bascule Bridge over the Milwaukee River is a three-span structure consisting of two-steel girder deck spans and a center double-leaf, plate girder, bascule span of simple trunnion design. Main bascule span is 115 feet long and 58 feet wide and carries two traffic lanes, 2 bike lanes along with a cantilevered pedestrian sidewalk on each side of the bascule girders. The original bridge was constructed in 1940 to replace a swing bridge in its place. AECOM performed Phase I & Phase II Engineering services for the rehabilitation of this bridge which includes, in-depth, arms-reach bridge inspection, complete replacement of superstructure steel framing, sidewalks, steel grid deck and floor beams as well as minor rehabilitation of the bascule girders and bridge rebalancing. Phase II also involves rehabilitation of mechanical and electrical components along with rehabilitation of bridge houses.				
11/19 - Ongoing	Chicago Department of Transportation, Cicero Avenue Bascule Bridge over the Sanitary and Ship Canal Rehabilitation, Chicago, Illinois. Lead Structural engineer responsible for the coordination of structural tasks for Phase I and Phase II design of the Cicero Avenue bascule bridge located near Midway airport in Chicago. The bridge is a double-leaf, multi-trunnion type bascule bridge with three through trusses over Chicago Sanitary & Ship Canal. The bridge was originally built in 1927 and widened in 1960. The bridge consists of three spans; the outer two spans are fixed approaches while the center one is a 240' long movable span over navigable waterway. AECOM is performing Phase I & Phase II Engineering services for the rehabilitation of this bridge which includes, in-depth, arms-reach bridge inspection, complete replacement of superstructure steel framing and floor beams as well as major rehabilitation of three through trusses. The bridge is on the Historic register and thus includes significant coordination with the state agency, including stakeholders and other agencies such as US coast guards and SHPO. Rehabilitation of the bridge is proposed using staged construction, closing one side of the bridge for construction while the other side remains open for traffic.				

02/21 - Ongoing	Chicago Department of Transportation, Lake Street Bascule Bridge over the South Branch of Chicago River – Phase I & II Bridge Design Engineering Services, Chicago, Illinois. Lead Structural engineer responsible for the coordination of structural tasks for Phase I and Phase II design along with Phase III construction support. This historic bridge, built in 1916 and listed on the Illinois Historic Bridge Survey, is a double-deck, double leaf, fixed-trunnion structure that carries two tracks of the Chicago Transit Authority (CTA) elevated railway on the upper level and vehicle, bicycle, and pedestrian traffic on its lower level. The main bascule span is 245.25 feet long and 69.75 feet wide and carries 2 lanes of traffic in each direction and a cantilevered sidewalk on each side of the lower level. Phase I services included extensive coordination with CDOT, CTA, SHPO, and other stakeholders. A Comprehensive structural, mechanical, and electrical inspection was performed, and a bridge condition report (BCR) was prepared recommending a rehabilitation plan. Phase II services consisted of a major rehabilitation of the main steel trusses in the “heel” portion of the bascule bridge and a complete replacement of the “river arm” steel trusses and steel floor framing for the lower level roadway and upper level railway that will be installed using a “float-in” method with a river barge during CTA service shutdowns. Phase II design also included bridge balancing and major rehabilitation of the substructure and counterweight pits, the bridge mechanical and electrical components, the architecturally significant bridge houses, and the river dolphins. These bridge rehabilitations were designed to have minimal impact on CTA transit services as well as the traveling public and river traffic.
03/24-05/24- 2024 Inspection Cycle 04/25-07/25- 2025 Inspection Cycle	Wisconsin Department of Transportation, Olde Oneida Street and Lawe Street Movable Bridge Inspections, Appleton, Wisconsin. Lawe Street bascule bridges over the Fox River Navigational Canal in Appleton, Wisconsin for 2024 and 2025 inspection cycle. Scope of work included structural, mechanical and electrical inspection of both movable bridges. Inspection of machinery and other moving components required accessing confined spaces for both these structures.
06/22- 10/22	Mississippi Department of Transportation, I-110 Bascule Bridge over Biloxi Back Bay, In-Depth and Fracture-Critical Bridge Inspection, Biloxi, Mississippi. Bridge Inspection Team leader for the inspection of the twin double lift rolling bascule bridge carrying Interstate 110 over Biloxi Back Bay. Performed the in-depth, arms reach fracture-critical inspection of the steel bascule girders and transverse floor beams supporting the bridge deck. Also, performed inspection of the steel grid deck, stringers, bearings and river piers.
02/17-04/17	Wisconsin Department of Transportation, Racine Street Bascule Bridge Replacement, Menasha, Wisconsin, 2017. Structural engineer on team responsible for preparation of type, size and location, and typical bridge cross section plans for a double leaf rolling lift bascule bridge during Phase 1.
10/19-02/18	Canadian Pacific Railway, GEC US Opportunities 2012-2015-Sabula Swing Bridge Rehabilitation, Sabula, Iowa. Structural engineer on team responsible for design and plan preparation of elevated bridge house support framing system and external stairway leading to bridge house for existing railroad swing bridge.
02/16-03/16	WisDOT, Little Chute Canal Bridge, Little Chute, WI, USA. Structural engineer on team responsible for design verification and structural analysis during the construction phase of this new Dutch style - movable bascule bridge. The main span of the bridge is 43 feet crossing a 35.5-foot-wide channel.
12/15-01/16	FDOT, NASA Indian River Bridge Load Rating, Kennedy Space Center, FL. Structural engineer on team performing review of load rating calculations. EXP team performed 3D finite element modeling of the bascule and flanking spans, and prepared load ratings for AASHTO inventory and operating levels, as well as Florida Legal Loads and several transporter loads unique to NASA Kennedy Space Center operations.

	Firm	AECOM Technical Services, Inc.			
	Name	Sarah Elsawah, PE		Years of Relevant Experience with this Employer	1
	Title	LRFR Load Ratings		Years of Relevant Experience with Other Employer(s)	7
Degree(s)/Years/Specialization		MASc/2018/Civil Engineering Beng/2016/Bridge Engineering			
Active Registration Number/State/Expiration Date		PE.0046814/LA/09.30.26			
Year Registered	2022	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		LRFR Load Ratings. Sarah has eight years of experience in bridge design, with a strong emphasis on bridge analysis, including but not limited to load rating and bridge testing. Her expertise spans load testing of simple and complex structures, assessment of bridges in poor condition, and advanced analysis of continuous steel and movable bridges. She also has extensive experience in bridge design and rehabilitation projects, contributing to both design-bid and rehabilitation efforts.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
01/25-Ongoing	LADOTD, Project No. H.016503, LA 641 Bridge over I-10, St. James Parish, LA. Engineer responsible for calculating the load rating for the entire bridge in its as-condition state and preparing a comprehensive load evaluation report. Additional responsibilities included determining the post-repair load rating and generating the as-designed load rating report. In 2023, a prestressed concrete bridge was damaged in an accident, resulting in concrete spalling and exposed, broken strands on three girders. These services were carried out within the framework of a multi-year task order contract				
08/24-12/24	LADOTD, LA 143 Bridge, Ouachita Parish, Louisiana. Project Engineer who reviewed sheets prepared by young engineers and prepared sheets that included bridge geometry (foundation layout, framing plans, etc.) for a new precast prestressed concrete I-beam bridge. The 700-foot bridge superstructure and substructure were designed based on the AASHTO-LRFD and BDEM.				
05/24-12/24	LADOTD, Load Rating of 89 Bridges, Statewide, LA. Project Engineer who assisted young engineers by reviewing load rating reports for bridges and prepared load rating reports of 89 on-system bridges in the state of Louisiana. The project consisted of complex and simple bridges, including railroad flat car, steel low truss swing span, suspended steel plate girder, slab spans and continuous deck slab spans.				
01/24-04/24	LADOTD, NDT of Load Testing, Evaluation and Load Rating Retainer Contract, statewide, LA. Project Engineer who led young engineers in determining the tested members of the 3,455-foot steel plate girder for testing the bridge's superstructure of four steel and concrete bridges, including concrete slab span, Continuous steel I-beam, and 3,455-foot steel plate girder. Responsibilities also involved preparing a finite element model for the test spans to validate the field data, analyzing the field data, submitting a modified BrR model to reflect the load test results, and preparing a detailed report with the load test results. The goal of the project was to eliminate the current posting of the bridges.				

11/23-03/24	Dura Stress, Creep Issue, Tampa, FL. Project Engineer who analyzed previous data versus the design camber, investigated the cause of the problem and suggested an alternative procedure to avoid the issue in the future, and prepared a detailed report as part of the research investigating the reason a precast prestressed girder camber measured before erection was much less than that of design camber. The project aimed to provide the manufacturer with guidance and suggestions to improve the casting of the beam and eliminate construction issues.
03/23-06/23	LADOTD, US 190 over US 61 Repair, Baton Rouge, LA. Quality assurance/quality control specialist who thoroughly reviewed the plans before the final submittal for the rehabilitation of a 200-foot-long reinforced concrete deck span. The repair included concrete patching and CFRP sheets to repair the superstructure and substructure.
08/19 - 04/22	LADOTD, MacArthur Phase II Final Plans, Jefferson Parish, Louisiana. Project Engineer who led the pier detailing team, calculated the riser elevations, and prepared the riser details to support the removal of two existing ramps and replaced them with two different ramps in different locations to avoid traffic congestion. The project involved a 22-span off-ramp and a 24-span on-ramp. The design consisted of complex structural elements, including precast-prestressed LU girders and LG girders, inverted T-cap beams, complex columns, and foundations.
01/21 - 07/21	LADOTD, LA 82 Mermentau Bridge Rehabilitation, Grand Chanier Parish, Louisiana. Project Engineer who loaded and analyzed the main truss span using Midas to remove the posting, developed the pre-inspection preparation, and checked to ensure the safety of the bridge during the fieldwork. The bridge consisted of a 204-foot truss swing span, (8) 40-foot steel I-beam spans and (16) 20-foot concrete slab spans. The scope of the work is to provide analysis, design, and plans to strengthen the deficient members and repair damaged members to remove the bridge posting. In addition, prepare plans to address the recommendations for rehabilitation found in the Management Plan for the Mermentau River – Grand Chenier Bridge.

	Firm	AECOM Technical Services, Inc.			
	Name	Jonathan Giardina, PE		Years of Relevant Experience with this Employer	6
	Title	Roadway Design		Years of Relevant Experience with Other Employer(s)	1
Degree(s)/Years/Specialization		BS/2019/Civil Engineering			
Active Registration Number/State/Expiration Date		PE.49081/LA/09.30.2026			
Year Registered	2024	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Roadway Design. Jonathan has experience in technical development for transportation engineering projects. Tasks and project experience include roadway design, waterline design, drainage layout and design, drafting and 3D modeling, construction submittal reviews, design plan development, construction cost estimating, document control, and plan checking.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
09/20 – 01/23	Feasibility Study and Report / TEPR, College Drive, City of Baton Rouge / Parish of East Baton Rouge, Baton Rouge, LA. Roadway Design / CADD Design. Project aims to provide access management, signalization and capacity improvements along College Dr. RFP includes a flyover exit ramp from I-10 westbound Ramp to College Drive. Jonathan assisted with estimating costs of high-level design concepts utilizing the LADOTD Bid Tab spreadsheet, road design, and plan development.				
03/21 - Ongoing	East Baton Rouge Parish, MOVEBR Program, Airline Hwy. / Jones Creek Road TEPR Study, Baton Rouge, LA. Traffic Engineering Process and Report for the proposed Jones Creek Road Extension that will connect Tiger Bend Road and Airline Highway. Jonathan assisted with existing intersection analysis, queue and unmet demand traffic counts along the corridor, and traffic study report.				
06/18 - Ongoing	Coastal Protection and Restoration Authority (CPRA) of Louisiana, SPN BA-0153, Mid-Barataria Sediment Diversion, Plaquemines Parish, LA. Planning, engineering and design services (\$1.5 Billion CMAR Project) for the creation of the Mid-Barataria Sediment Diversion Channel to strategically reintroduce sediment and freshwater inputs into the Barataria Basin. Jonathan worked on plan development, cost estimation, traffic report, roadway design calculations, guardrail design, plan checking, temporary traffic control planning and design, typical sections, and geometric details				
03/23 – Ongoing	Louisiana Department of Transportation, LA 561 Boeuf River Bridge Replacement Near Hebert, Caldwell and Richland Parishes, LA. The project consists of the replacement of a 700 ft through truss bridge with a new prestressed concrete girder bridge and 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. Jonathan worked on the Preliminary design phases by performing roadway design calculations, roadway and drainage layout, modeling, and plan production.				
11/19 - Ongoing	City of New Orleans Department of Public Works, Broadmoor Neighborhood Reconstruction, New Orleans, LA. Project facilitates a complete reconstruction of 22 neighborhood blocks within the Broadmoor neighborhood in New Orleans. Reconstruction includes the roadway, concrete sidewalks, concrete curbs and/or gutters, driveway aprons, waterlines, and stormwater system and corresponding infrastructure. Jonathan assisted in preliminary design, roadway design, water line design, quantity and cost estimating, design plan development, and client meetings.				

	Firm	AECOM Technical Services, Inc.			
	Name	Josh Guitreau, EI		Years of Relevant Experience with this Employer	3
	Title	Bridge Design		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/09.30.26			
Year Registered	2022	Discipline	Engineer Intern		
Contract Role(s)/Brief Description of Responsibilities		Bridge Design. Joshua has 3 years of experience in structural and bridge engineering across multiple transportation projects. His work has included preliminary and detailed bridge design, reinforced deck design, and substructure analysis for state DOTs including LADOTD, TxDOT, and SDDOT, as well as bridge load rating evaluations, field assessments, and site visits for LADOTD, with one year focused on analyzing existing structures to assess capacity and inform maintenance or load decisions. His project experience spans bridge replacement and rehabilitation, box culvert and wingwall design, and construction and quality support for major highway projects. Joshua has demonstrated proficiency with AASHTO LRFD design specifications, reinforced concrete bridge components, and preliminary structural analysis, contributing to the successful execution of projects across multiple states.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
02/25-04/25	LADOTD, LA-641 Bridge over I-10, St. James Parish, LA. Performed structural assessment of impact-damaged bridge to evaluate girder condition and determine repair needs. Developed girder repair quantity calculations to support design of remedial measures, including material selection and repair extents. Contributed to the production of repair plans and documentation to fit project constraints and field-access limitations.				
05/23-Ongoing	LADOTD, LA-561 Boeuf River Bridge Replacement Project, Hebert, LA. Responsible for preliminary bridge layout and design, including pile-supported foundation and reinforced deck system. Conducted site visit and met with LADOTD to evaluate existing bridge conditions and inform design approach. Contributed to plan development while working closely with roadway and geotechnical teams to ensure design compatibility and address project-specific constraints..				
08/23-09/24	LADOTD, LA-10 Bayou Carron Bridge Project, Washington, LA. Supported geotechnical analysis efforts by determining bridge service loads used in foundation design. Assisted with plan development and coordination to maintain consistency between structural and geotechnical design elements.				
10/23-08/25	LADOTD, Bridge Load Rating, Multiple Locations, LA. Performed substructure analysis for a series of multi-span concrete slab bridges as part of a statewide load rating effort, assessing existing conditions and structural capacity to deliver recommendations supporting effective maintenance and rehabilitation planning.				
11/22-Ongoing	EBR Parish, College Drive, Baton Rouge, LA. Performed design verification and structural analysis for box culverts and headwalls to ensure compliance with design standards and structural integrity.				
07/22-Ongoing	TxDOT, I-635 LBJ East Design Build Project, Dallas, TX. Performed construction support activities such as responding to RFI's, shop drawing review, plan revisions, and quality support/quality assurance tasks for multiple bridge structures throughout project.				

	Firm	AECOM Technical Services, Inc.			
	Name	Steven Haynes, PE		Years of Relevant Experience with this Employer	24
	Title	Bridge Design/Bridge Rehabilitation		Years of Relevant Experience with Other Employer(s)	21
Degree(s)/Years/Specialization		BS/1978/Civil Engineering			
Active Registration Number/State/Expiration Date		PE.0043319/LA/09.30.2026 Additional licenses in: WA, CO, TX			
Year Registered	2019	Discipline:	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Bridge Design/Bridge Rehabilitation. Steven is a senior project manager and bridge engineer with extensive experience in analysis, design, and construction management of bridges and other structures. He is knowledgeable in the design procedures adopted by various states, including Louisiana, Washington, Colorado and Texas, and is very familiar with AASHTO LRFD bridge design specifications and AASHTO LRFD bridge construction specifications for steel, precast, and post-tensioned concrete bridges, including the design of complex substructures. Steven has been involved in many design study reports that required evaluating unusual types of structures including arches, tied arches, and tied back structures. He has led engineering design teams whose duties ranged from civil and structural design through the plan, specification & estimate, and construction to completion, for a wide variety of steel, concrete, and timber bridges as well as retaining walls and approach roadways. Steven has designed many complex retaining wall structures higher than 30 feet, some of which involved the design of soil-nail, caisson, and tied-back wall systems.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
07/24 - Ongoing	Brent Spence Bridge Project – Ohio River, Ohio DOT. This project is a progressive design/build project where Steven is the Lead Structural Engineer for 5 bridges in Cincinnati OH. Two of the bridges are double-decked structures approaching the Ohio River Crossing Bridges. One Bridge spans 2 railroad facilities where shoring designs will be required by the Design Team. The bridges consist of fabricated structural steel and prestressed concrete girders up to 140 feet in length.				
07/20-09/21	Repair Assessment of Bridge No. 93.1, I-20 EB to I-55 NB, Mississippi Department of Transportation, Jackson MS. Provided technical support for an in-depth finite-element analysis to generate a bridge load rating analysis and repair recommendations for Bridge No. 93.1 in Rankin County, MS. This bridge is in generally fair condition, however, diagonal cracking of the concrete girders with moderate spalling was noted at the dapped girder ends which weakened the structural integrity of the bridge and warranted a load posting.				

07/19-12/21	TxDOT, I-635 LBJ East, Dallas, TX. Design Engineer for the Quality Control process on the project. The project's scope is for the construction of an approximately 11.2-mile corridor of Highway I-635 LBJ East from US 75 to IH-30 in Dallas County to improve safety, mobility, and relieve congestion in the region. Provided independent design checks and plan verifications (QC) for one prestressed girder bridge and all the sign structures on the project. Currently providing ongoing construction support services for the project, including shop drawing review and plan revisions.
7/18-Ongoing	TxDOT, Southeast Connector Design-Build, Fort Worth, TX. Structure Engineer and Task Manager for this \$1.6 billion design-build project to reconstruct and widen 16.6 miles of I-820, I-20 & US-287. Steven was EOR for 3 of the bridges on the project and designed pre-stressed concrete girders, bent caps, columns, and foundations for these bridges. Steven designed several of the more complicated post-tensioned straddle bents on the projects requiring limited vertical clearance.
07/20-12/20	El Paso County, South Academy Blvd over BNSF Rehabilitation, El Paso County, CO. Bridge Engineer for the scour mitigation design for a 5-span, prestressed concrete girder bridge over Fountain Creek in Colorado Springs. As part of the bridge preservation efforts, Steve developed bridge foundation strengthening details for the existing piers in the floodplain.
03/18-Ongoing	Louisiana Department of Transportation and Development (H.004273) I-49 Connector, Lafayette, LA. Task Assignments included the conceptual designs of Signature Bridge Options totaling approximately 840 feet in length and a main span approximately 400' over Johnstown Blvd. Technical Task Leader and for AECOM Denver's portion of this design study report. Mr. Haynes provided QC for the superstructure and design of the substructure elements for this bridge, including straddle bents in excess of 130' in length. AECOM Denver was tasked with the design for Spliced U-Girder Alternative. The viaduct consisted of multiple structures. The study area and was in excess of 15000' long with a number of ramps. Considering the parallel I-49 structures, the overall bridge length studied was in excess of 10,000 feet each and over 120 spans total. Midas and CSiBridge were utilized for the designs of the structures. Designed the structure in accordance with LADOTD's Guidelines and AASHTO LRFD requirements.
10/17-12/19	Frederick Douglass Memorial Bridge, Washington DC Department of Transportation, Washington DC. Structural Engineer designing foundations for this 3 span suspended arch bridge crossing the Anacostia River. The bridge is 1445' in length with spans 540' over the main channel. Challenges included designing deep pile foundations in soft soils, including the design of the bridge for active threats, such as ship collisions which could potentially damage several supporting piles at the piers. The design plans comply with Washington D.C's DOT Standards and AASHTO's LRFD Requirements.
09/18-05/19	LADOTD (H.011670), I-10 at Loyola Drive Interchange Design-Build Tender Offer, Kenner, LA: Structures Engineer for interchange improvements at the I-10 at Loyola Drive to provide new access ramps to and from the new passenger terminal at Louis Armstrong International Airport. Sean's design tasks included evaluating alternative technical concepts, preliminary design and layouts for prestressed concrete LG girder superstructures, proposal plan development and quantity calculations for estimating and bid.

	Firm	AECOM Technical Services, Inc.		
	Name	Gary Hawkins	Years of Relevant Experience with this Employer	17
	Title	Section 106/HABS/HAER	Years of Relevant Experience with Other Employer(s)	2
Degree(s)/Years/Specialization		BA/2003/Archaeology		
Active Registration Number/State/Expiration Date		N/A		
Year Registered	N/A	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities		Section 106/HABS/HAER. Gary is a field archaeologist with 19 years of experience in cultural remediation and archaeological survey. His survey experience includes shovel and pedestrian survey in Louisiana, Mississippi, Arkansas, Texas, Alabama, Georgia, Tennessee, Oklahoma, Illinois, Michigan, and Kentucky. He is a field lead on various projects, directing crews as a team leader throughout the US.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/21-Ongoing	TXDOT (US-380) Phase I Cultural Resource Survey, Various Counties, TX. Field Archaeologist, Technical Writing			
05/24-06/24	TXDOT (SH-183) Background study for Historic Resources, Tarrant County, TX. Technical Writing			
05/24-05/24	TXDOT (SH-107) Phase I Cultural Resource Survey, Hidalgo and Cameron Counties, TX. Field Archaeologist			
05/20 – 02/24	Phase I Jones Creek Road Extension, Tiger Bend Road to Airline Highway, East Baton Rouge Parish, LA. Field Archaeologist, Field Director, Technical Writer. Phase I cultural resource survey from survey to reporting around an extension of Jones Creek Road in southeast Baton Rouge, LA.			
09/20-10/20	Port of South Louisiana (La 637) Stage 0 Report and EA, Baton Rouge, LA. Crew Chief, Technical Writing			
09/20-10/21	Feasibility Study and Report/TEPR, College Drive, City of Baton Rouge/Parish of East Baton Rouge, Baton Rouge, LA. Technical Writing			
08/20-09/20	Airline Hwy./Jones Creek Road TEPR Study, Baton Rouge, LA. Crew Chief, Technical Writing			
08/17 – 10/17	Coteau Road Phase I Cultural Resource Survey, LADOTD, Iberia Parish, LA. Field Archaeologist. Phase I assessment of a proposed expansion to LA 88 (Coteau Rd.) in Iberia Parish, LA. Included excavation and architectural assessment of potentially impacted homes.			
08/08 – 01/19	Baton Rouge Loop Tier 1 Environmental Impact Statement, Capital Area Expressway Authority and LADOTD, Ascension, East Baton Rouge, Iberville, Livingston, and West Baton Rouge Parishes LA. Technical Writer. Cultural resources reporting for a Tier 1 EIS for the proposed Baton Rouge Loop toll road project.			
09/13 – 04/14	Perkins Road (LA427) Segment #1, From Siegen lane to Highland Road, Stantec Consulting Services, Inc., Baton Rouge, East Baton Rouge Parish, LA. Field Archaeologist. Phase I cultural resources survey of a 3.14-mile long corridor improvement project.			

	Firm	AECOM Technical Services, Inc.		
	Name	Marc Jansing	Years of Relevant Experience with this Employer	1
	Title	Senior Environmental Planner	Years of Relevant Experience with Other Employer(s)	13
Degree(s)/Years/Specialization		BS / 2009 / Environmental Science		
Active Registration Number/State/Expiration Date		N/A		
Year Registered	N/A	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities		NEPA Support/Related Laws. Marc is an environmental project manager with extensive experience in environmental compliance, project management, and regulatory coordination within the transportation and private development sectors. He specializes in navigating environmental processes during the planning phase to ensure compliance with state and federal regulations while also monitoring and maintaining environmental commitments throughout construction. Marc has deep expertise in the technical analysis of natural and human environmental resources, stormwater management, and environmental compliance implementation.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
10/21 – 07/23	TxDOT, Las Vegas Trail Reconstruction, White Settlement, TX. Environmental Project Manager. Led the NEPA environmental review for a TxDOT capacity expansion and roadway realignment project to improve a low-water crossing. Directed technical reviews and public involvement to preserve historic masonry culverts while advancing drainage and stormwater design, including coordination of stormwater compliance measures, water resource reporting, and permitting. Prepared and managed environmental documentation and approvals, and coordinated closely with the Texas Historical Commission, local stakeholders, and Section 4(f) resource owners with jurisdiction to integrate avoidance and minimization measures. Organized and executed the project public hearing to satisfy Chapter 26 and recreational Section 4(f) requirements and maintain a defensible project record.			
10/19 – 03/25	TxDOT, Southeast Connector, Fort Worth, TX. Environmental Project Manager. Led the environmental efforts for the TXDOT project to reconstruct the main lanes and interchanges of I-20, I-820, and US 287 within the project corridor. Key responsibilities included evaluating the need for and coordinating the approval of environmental reevaluations resulting from post-clearance design changes, ensuring compliance with all state and DOT regulatory requirements, and compliance with TCEQ TPDES construction stormwater permits. Managed the analysis and mitigation of hazardous materials within the existing corridor and from acquired properties associated with the project. Coordinated and documented Section 4(f) de minimis approvals with relevant owners and jurisdictions, led traffic noise mitigation constructability analyses, and organized traffic noise workshops. Coordinated the project's environmental management with stakeholders such as cities, railroads, and elected officials. Managed all environmental documentation, ensuring all records were maintained and compliant with project requirements.			
11/20 – 05/24	TxDOT, US 377 Reconstruction in Hood County, Granbury, TX. Environmental Project Manager. Prepared the environmental documentation and managed the environmental review to ensure that the project's reconstruction of the roadway and interchanges and a new bridge over Lake Granbury met the necessary criteria for NEPA approval. Coordinated with local stakeholders and the water authority to ensure that the receiving waters' quality standards were maintained. Conducted technical analysis of the project's natural resources review, completing detailed aquatic species analyses and water delineation at the lake. Additional responsibilities involved coordinating with the TxDOT Environmental Affairs Division to secure approvals for the project's technical reports, including the Traffic Noise Analysis, Community Impacts Assessment, and Hazardous Materials Phase I and Phase II reports. Coordinated the analysis and removal of contaminated materials within the project corridor, and managed all associated agency coordination. Managed all environmental documentation, ensuring proper project tracking throughout the process.			

	Firm	AECOM Technical Services, Inc.			
	Name	Gary Kassoff		Years of Relevant Experience with this Employer	7
	Title	Coast Guard Permitting/Agency Coordination		Years of Relevant Experience with Other Employer(s)	40
Degree(s)/Years/Specialization		MS/1974/Environmental Health Science BS/1969/Biology			
Active Registration Number/State/Expiration Date		N/A			
Year Registered	N/A	Discipline	N/A		
Contract Role(s)/Brief Description of Responsibilities		Coast Guard Permitting/Agency Coordination. Gary had over 40 years of experience processing USCG Bridge Permit applications, evaluating movable bridge operations and drawbridge regulations, preparing navigational reports, and administering requirements of NEPA while serving as the Bridge Program Manager for the First CG District in the northeast U.S. He was responsible for the issuance of over 750 drawbridge regulation, 1000 bridge permits and countless bridge construction reviews. He was the USCG official responsible for the preparation and issuance of NEPA documentation to meet USCG Bridge Program environmental mandates pursuant to NEPA. Since 2014 with AECOM he has worked as a bridge permit and navigation specialist preparing bridge permit applications, navigational reports and providing coordination with marine interests for various clients throughout the U.S. as well as assisting with environmental documentation preparation. Assisted in preparing applications for U.S. Army Corps of Engineers approvals.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
05/25-Ongoing	Oceanic Bridge Replacement – Rumson, NJ. AECOM is subconsultant working with Monmouth County NJ toward replacement of the Oceanic Bridge, a movable (basculer) bridge across Navesink River, NJ. My task is development of a Navigation Impact Report that will supplement Monmouth County's application to the U.S. Coast Guard for a required bridge permit to replace the existing movable bridge with a fixed structure. Navigation Impact Report consists of identifying the existing and prospective needs of navigation along the waterway, both up and downstream of the bridge. Data is gathered by visits to the individual marine facilities along the waterway, identifying the type and size of vessels navigating along the waterway. Meeting/communication with marine authorities and marine planning organizations such as USCG, USACE, local harbor masters, NJ Marine Police is included. It is important to ascertain whether the reasonable needs of existing and prospective navigation will be met by the proposed bridge design. Research culminates in preparation of a Navigational Impact Report that will be submitted to the USCG for consideration and concurrence.				

06/25-Ongoing	Devon RR Bridge Replacement – Devon, CT. AECOM is consultant to State of Connecticut (CT DOT) toward replacement of the state owned and Metro North RR operated Devon (basculer) RR Bridge across the Housatonic River. My task is development of a Navigation Impact Report that will supplement CT DOT's application to the U.S. Coast Guard for a required bridge permit to replace the existing movable bridge with a modern, efficient movable bridge. Navigation Impact Report consists of identifying the existing and prospective needs of navigation along the waterway, both up and downstream of the bridge. Data is gathered by visits to the individual marine facilities along the waterway, identifying the type and size of vessels navigating along the waterway. Meeting/communication with marine authorities and marine planning organizations such as USCG, USACE, local harbor masters, NJ Marine Police is included. It is important to ascertain whether the reasonable needs of existing and prospective navigation will be met by the proposed bridge design. Research culminates in preparation of a Navigational Impact Report that will be submitted to the USCG for consideration and concurrence.
04/17-12/17	SFDPW, 3rd Street Bridge over Islais Creek, San Francisco, CA. Prepared Project Initiation on behalf of the SFDPW for submission to the USCG for modification of existing 3rd Street Bridge. Presented existing and future needs of navigation justifying reduction in required navigational clearances
04/11-11/13	Port Authority of NY/NJ, Bayonne Bridge Raising, NY/NJ. Project Manager for USCG's NEPA lead agency mandate and bridge permitting responsibility for raising of the historic Bayonne Bridge. The project increased the bridge vertical clearance from 150 to 225 feet thereby ensuring access for post-Panamax vessels into Port of New York and allowing the Port of NY/NJ to maintain its commercial competitiveness. Working under a federally imposed time mandate he successfully directed a controversial environmental review process, coordinated with federal, state and local agencies culminating in an approved EA/FONSI and issuance of a USCG Bridge permit. Coordinated closely with the U.S. Army Corps of Engineers regarding impact on Federally authorized navigation channel.
09/15-07/18	CTDOT, Devon Railroad Bridge Replacement, CT, NJ. Provided permitting, environmental and constructability presentation for RFP and client interview contributing to project award. Prepared navigational study assisted with bridge permit application and impact assessment for this movable bridge structure replacement along heavily transited commuter/regional rail corridor. Coordinated with U.S. Army Corps of Engineers regarding its federal regulatory responsibilities.
01/05-12/12	Amtrak, Northeast Corridor Historic RR Movable Bridge Replacements, Thames and Niantic Rivers, CT. Coast Guard program manager for bridge permitting and navigational coordination for replacement of two Amtrak Northeast Corridor movable bridges (Thames River and Niantic River). Oversaw significant navigational and environmental coordination between Amtrak, commercial and recreational boating interests and the U.S. Navy. Developed in-water construction procedures to maintain construction schedule while meeting needs of navigation.
8/16-Ongoing	Boston DPW, Northern Avenue Bridge Replacement, Boston, MA. Provided Bridge Permitting and navigational expertise for RFP which resulted in selection of team for A&E services for replacement of a historic and iconic bridge in Downtown Boston. Active member of ongoing bridge permit and environmental preparation. As part of permit application team, prepared Navigation Impact Report for USCG Bridge Permit Application and provided bridge permit processing expertise. As part of AECOM team coordinated closely with the U.S. Army Corps of Engineers which served as lead federal agency for federal cultural resource mandates.
10/16-05/19	MDSHA, Cobb Island Bridge Replacement, Newburg/Cobb Island, MD. Prepared a navigational report for marine activity along Neale Sound as navigational expert for AECOM team for replacement of Cobb Island Bridge. The results of the navigational report were included in the MD SHA's bridge permit application to the CG in support of proposed bridge design and navigational clearances. Coordinated with CG Portsmouth, VA bridge office. Successful USCG approval of bridge permit, required clearance gauges and navigational lighting.

	Firm	AECOM Technical Services, Inc.			
	Name	Myles Martin, EIT		Years of Relevant Experience with this Employer	3.5
	Title	Bridge Design		Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization			BS / 2022 / Civil Engineering		
Active Registration Number/State/Expiration Date			El.# 0035305 / LA / 03.31.2028		
Year Registered		2022	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities			Bridge Design. Engineering in Training. Myles’ role on the design team is to execute the structural engineering tasks assigned or as otherwise directed under general supervision.		
Experience Dates (mm/yy - mm/yy)		Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
04/10-Ongoing		ODOT, Brent Spence Bridge Corridor Project, Kenton County, KY EIT responsible for developing several retaining wall plans to 60% design. Key aspect of the development of plans included: - Using excel to mathematically verify the top of wall elevations by calculating the profile grade and using horizontal distances combined with the road cross slope. - Utilizing Open Roads Designer to develop design models, layouts, and construction drawings, ensuring accuracy and clarity in the 60% design documents. - Using excel and other modeling software to complete quantity calculations for retaining walls			
08/20-Ongoing		LADOTD, No. H.011993: LA-10 Bayou Carron Bridge Project Stage 6, Opelousas, LA EIT tasked with review of detailed bearing pad shop drawings and ongoing task related to final stage of bridge design.			
01/25-Ongoing		LADOTD, No. H.01560: LA-641 Bridge Insp and Repair, St. James Parish, LA EIT tasked with assessing the scope of repair work including materials, labor and equipment, to generate accurate cost and quantity estimates, utilizing Microstation to develop bridge plans, girder layout and Girder Repair sheets, using Excel and Microsoft Word to summarize pre-inspection damage, and assisting on bridge inspection to evaluate damage on bridge by use of a boom lift to perform visual and physical examinations to identify wear and damage that could compromise the girders functionality in effort for the overall analysis and design of repair.			
07/23-Ongoing		I-49 Connector, Lafayette, LA Performed construction support activities and quality support/quality assurance tasks for multiple bridge structures throughout project. Tasks on project involved			
07/24-Ongoing		LADOTD Bridge Load Rating IDIQ, Statewide, LA EIT tasked with performing load rating on the substructure components of multiple bridges across the state using BRR software and an AECOM proprietary tool.			
08/22-Ongoing		TxDOT, Oak Hill Parkway, San Antonio, TX Performed construction support activities and quality support/quality assurance tasks for multiple bridge structures throughout project. Tasks commonly done on project include but not limited to: - Preparing and review of detailed girder, prestressed concrete panels, box culvert, steel bridge form, retaining wall and sealed expansion joint shop drawings. - Coordinating Requests for Information (RFI’s) responses to resolve technical issues and clarify design details during construction.			

	Firm	AECOM Technical Services, Inc.		
	Name	Ian McElhone, PE		Years of relevant experience with this employer
	Title	Bridge Design		Years of relevant experience with other employer(s)
Degree(s)/Years/Specialization		BS /2009/Civil Engineering MS/2011/Civil Engineering		
Active Registration Number/State/Expiration Date		57586/VA/04.30.2027		
Year Registered	2017	Discipline	Civil Engineer	
Active Registration Number/State/Expiration Date		30790/KY/06.30.2026		
Year Registered	2015	Discipline	Civil Engineer	
Contract Role(s)/Brief Description of Responsibilities		Bridge Design. Ian is responsible for the analysis, design, details, rehabilitation, project reports, and seismic analysis for all types of highway structures, including complex and long-span bridges. Mr. McElhone has experience with bridge maintenance, repair, and rehabilitation, including the use of non-destructive testing methods. Mr. McElhone is a certified FHWA Bridge Inspection Team Leader and Society of Professional Rope Access Technicians Level II Technician.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/25-Ongoing	LADOTD, Project No. H.013832, LA 6: Grand Ecore Bridge Deck Repair, Natchitoches Parish, LA. Project Manager for Stage 0/1 services to rehabilitate or replace the existing concrete deck of LA 6 over the Red River in consideration of the current bridge condition, load rating, and expected life-cycle of the bridge. The existing structure, built in 1956, consists of three main spans with lengths of 300-375-300 feet and 15 - 60 foot approach spans. The deck was replaced in 2011. Investigations have identified numerous spalls on the top of the deck and inadequate cover on the top reinforcing mat. Study will evaluate deck patching and sealing, concrete overlay, deck replacement with precast deck panels, and deck replacement using phased cast-in-place concrete. The rehabilitation alternatives will be classified by the expected amount of service life feasible.			
12/22-Ongoing	VDOT, Craig Botetourt Scenic Trail Bridges, Botetourt and Craig Counties, VA. Project Manager coordinating a multi-discipline design team to rehabilitate and upfit 11 existing structures along the former Chesapeake & Ohio Railway Craig Valley Branch (CVB) line for use in a rails-to-trails corridor. The CVB was opened in 1891 and abandoned in 1961. The structures consist of four steel truss bridges, three two-girder bridges, and four culverts. The task included hands-on rope access inspection of each structure and ultrasonic pin testing to confirm the size and condition of primary structural elements. A load capacity analysis was completed for each bridge to evaluate the existing condition and needs for rehabilitation to support trail use loads. Plan development of structural repairs consist of bearing replacement, fastener replacement, truss chord strengthening, superstructure replacement, substructure repairs, and culvert replacement.			

07/22-Ongoing	VDOT, I-464 / I-64 Interchange Exit 291 Ramp Improvements, Chesapeake, VA. Bridge Discipline Design Lead for the Preliminary Design and Design-Build RFP Development as well as Design Review and Construction Support Services to improve the I-64/I-464 Interchange at Exit 291 and specifically to provide a direct connection between I-64 EB and Route 168 SB. Amongst other improvements associated with this project is the addition of a heavily skewed and tight horizontal curve single span flyover bridge, addition of a new multi-span continuous steel plate girder bridge, and rehabilitation and structure widening a five span existing steel girder structure. As the Bridge Design Lead, he oversaw the development of the design team and sub-consultant design team development of RFP Technical Requirements and Conceptual Bridge Plans on behalf of VDOT. Mr. McElhone is currently providing professional services through the final design and construction process. This will include providing technical expertise and contractor design submission reviews during the design stage of the project and contractor submittal reviews during the construction stage of the project.
02/22-Ongoing	VDOT, Richmond and Lynchburg Districts Bridge Bundle, Various, VA. Deputy Design Manager for a design-built project for design and construction of five structurally deficient bridges in the Richmond and Lynchburg Districts. Four of the bridges will consist of full bridge replacements. The fifth bridge is an interstate structure rehabilitation that includes deck replacement. Structure types include continuous or simple span structures with prestressed concrete girders. Bridge abutments will be integral or semi-integral, pile supported abutments. Piers will consist of multi-column piers with drilled shaft foundations. One of the replacement bridges has already been closed to traffic due to condition and a temporary on-site detour has been installed with an Acrow bridge. Project will include an analysis and evaluation for the sequence of disassembling the temporary bridge.
09/19-01/24	City of Lynchburg, Lakeside Drive over Blackwater Creek, Lynchburg, VA. Bridge Discipline Design Lead on this Design-Build project to construct a replacement bridge on Lakeside Drive in the City of Lynchburg, Virginia. This project scope included a new bridge over Blackwater Creek on a new downstream alignment, realignment of roadway approaches, and construction of a new multi-lane, five-leg roundabout at the intersection with Old Forest Road. As Bridge Design Lead, he oversaw the design and quality management process. The bridge superstructure consists of three spans of 77-inch deep prestressed concrete bulb-T girders with semi-integral abutments and concrete closure diaphragms at piers for jointless configuration. The semi-integral abutments were located behind MSE walls with the use of soil reinforcing strips and PTFE bearings to reduce the lateral loads behind the MSE wall. Mr. McElhone also coordinated constructability reviews with the Design-Builder throughout the design. In the construction phase, he completed the timely review of contractor submittals and responses to questions from the field.
01/18-06/21	VDOT, Salem District Multiple Bridge Rehabilitation Bundle, On-Call Contract Task Order, Various, VA. Bridge Discipline Design Lead on this VDOT project providing engineering services for reconstruction of five separate bridges bundled into a single construction contract. Mr. McElhone's duties included leading a design team through all design phase activities including quality control, and review of contractor submittals. The bridges consisted of structural steel plate girders and prestressed concrete members. The bridge designs were prepared to construct the bridges in multi-phase sequence of construction to allow traffic to be maintained throughout construction. The bridges and approach roadways were designed to eliminate ROW acquisition and limit environmental impacts. During the construction phase, Mr. McElhone completed timely review of contractor submittals and visited the sites to help address questions from the contractor and advise on unanticipated conditions.

	Firm	AECOM Technical Services, Inc.			
	Name	Craig Parent, PE, SE		Years of Relevant Experience with this Employer	29
	Title	Task Manager/LRFR Load Ratings		Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization		BS/1995/Civil Engineering MS/1997/Civil Engineering			
Active Registration Number/State/Expiration Date		59856/CA/12.31.2027			
Year Registered	1999	Discipline	Civil Engineer		
Active Registration Number/State/Expiration Date		36117/CO/10.31.2025			
Year Registered	2002	Discipline	Civil Engineer		
Active Registration Number/State/Expiration Date		6379388-2202/ UT/03.31.2027			
Year Registered	2006	Discipline	Structural Engineer		
Contract Role(s)/Brief Description of Responsibilities		Task Manager/LRFR Load Ratings. Craig has extensive experience managing on-call contracts, individual task orders, and project specific contracts including small bridge rehabilitation and replacements; complex structural repair and retrofit; emergency repair and replacement; and large multidisciplinary projects such as grade-separated interchanges. His rehabilitation and repair experience includes non-destructive load testing, bridge deck scanning (GPR and IR), finite-element modelling, bridge jacking, substructure replacement, foundation augmentation, concrete deck repair, fatigue retrofit, and bearing and expansion joint replacement.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
09/16- 07/23	City and County of Denver, Park Avenue Viaduct Rehabilitation, Denver, CO. Project Manager for the \$14 million rehabilitation of a viaduct structure that is an elevated intersection of Park Ave., Wewatta St., Delgany Street, and 22nd Ave. The structure is a critical link to I-25, Coors Field, and the northwest neighborhoods of Denver. The bridge consists of five steel plate girder viaducts that frame into a central, post-tensioned concrete waffle slab located over the BNSF/UPRR railroads as well as several light-rail tracks. The project includes: modular expansion joint and bearing replacement; bridge deck repairs; replacement of concrete curb ramps and sidewalk on the waffle slab; concrete repair under the waffle slab; complex replacement of four overhead mast arm signals; painting steel girders; and resurfacing the bridge. Replacement of the mast arm signals required an innovative connection to the underside of waffle slab where new reinforced concrete members are dowelled into the waffle slab webs. Paving the bridge required the partial reconstruction of two intersections due to the pavement elevation difference. The reconstruction included tying the pavement to the opposite end of the intersection and replacement of curb ramps. The project required extensive coordination with the UPRR, BNSF, and RTD.				

03/20-01/21	Colorado Avenue Bridges Preventative Maintenance, Colorado Springs, CO. Project Manager for the design and post-design services for the deck repair, expansion joint repair, and bearing stabilization for two Colorado Avenue bridges over Monument Creek and the UP Railroad/Sierra Madre Street. Both bridges exhibited severe deck deterioration due to insufficient concrete reinforcement cover; permanently displaced ("walked") bearings; and expansion joint gland damage. AECOM used in-house deck scanning capability to determine concrete cover, identify delaminated concrete, and deterioration potential using ground penetrating radar (GPR) and infrared thermography (IR). Based on the results, AECOM developed two deck repair options using CDOT class 2 repairs and an overlay with either polyester polymer concrete or Concrete Class DT. AECOM also developed a simple bearing restraint system to prevent further walking of the bearings and developed an innovative expansion joint gland replacement strategy that avoided costly replacement of the existing steel joint armor.
11/24-01/25	CDOT, Off-system Bridge Load Rating Services. Various locations in CO. Project Manager for load rating 110 off-system bridges located throughout Colorado using AASHTOWare BrR software. Bridge superstructure types included cast-in-place concrete t-beams and pretensioned, precast concrete box girders, many of which have unique geometry and girder layouts that required creativity in modeling using BrR. The AECOM team completed all load ratings in 3 months.
05/18-06/19	CDOT, I-76 over Clear Creek Fatigue Study (CDOT NPS Contract), Adams County, CO. Project Manager responsible for a fatigue study for two highly skewed, multi-span, steel plate girder bridges: EB and WB I-76 over Clear Creek. The bridges 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 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.
11/23-Ongoing	CDOT, Region 1 Bridge Fatigue Repair Project, Jefferson County, CO. Project Manager for the fatigue retrofit of six steel tub girder bridges on I-76. Four bridges are single-span, with an average span of 130 feet, are exhibiting distortion induced fatigue cracking at the web gaps of multiple cross frames. The retrofit includes closing the gap by welding a new plate between the connection plate and the girder flange. Complex structural analysis using DESCUS, LUSAS, and GT Strudl was used to develop the retrofit. Two bridges are three-span (232 ft, 95 ft, 232 ft) structures that have recently discovered fatigue cracking in the top flanges of the tub girders in tension zones. AECOM is leading a critical repair design that includes crack arrest holes, special inspection, structural analysis, and developing a fast-track repair that can be implemented by CDOT maintenance personnel. The repair includes installing bolted flange and web plate retrofit plates to bypass the flange cracking in three locations
07/20-09/21	Repair Assessment of Bridge No. 93.1, I-20 EB to I-55 NB, Jackson, MS. Independent technical reviewer for the load rating and repair recommendations for Bridge No. 93.1 in Rankin County, MS. This bridge exhibits diagonal cracking of the concrete girders and spalling at the dapped girder ends which weakened the structural integrity of the bridge and warranted a load posting. The load rating was completed using a 3D finite element model using CSiBridge software. Craig provided subject matter expertise for rehabilitation measures such as bearing repair/replacements, bridge deck seal using high molecular weight methacrylate (HMWM), concrete patching, expansion joint replacement, and dapped girder rehabilitation.
06/23-Ongoing	South Academy Blvd Widening, El Paso County, CO. Construction services structures task lead for the widening South Academy Blvd which included complex rehabilitation of bridges over Fountain Creek, US 85 and BNSF Railroad, and Bradley Road. The Fountain Creek bridge includes complex stabilization for pier settlement, bearing repair, pier cap repair using carbon fiber wrap, and girder repair. The US 85 bridge includes bearing replacement, deck repair, and steel cross frame repair. The Bradley Road bridge included widening a three-span, cast-in-place concrete bridge with precast concrete box girders, expansion joint replacement, and concrete repair. Construction services has included rapid response to field discovered damage such as concrete repair.

	Firm AECOM Technical Services, Inc.			
	Name Bobby Prince, PE		Years of Relevant Experience with this Employer 27	
	Title Bridge Rehabilitation		Years of Relevant Experience with Other Employer(s) 0	
Degree(s)/Years/Specialization			BS/1996/Civil Engineering MS/1998/Civil Engineering	
Active Registration Number/State/Expiration Date			36980/VA/06.30.2027	
Year Registered	2003	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities			Bridge Rehabilitation. Bobby serves as Senior Bridge Engineer and Task Manager for bridge design, repair, and rehabilitation projects. His experience includes bridge repairs from impact damage, in-depth fatigue investigation and monitoring, complex staged construction sequence, and development of rehabilitation plans for steel girders, steel trusses, concrete girders, and slab span structures.	
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
04/20-10/23	VDOT, Rehabilitation of Interstate 77 Bridges over Clear Fork Creek, Bland County, VA. Senior Bridge Engineer for 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.			
01/16-11/20	VDOT, Rehabilitation of 34 Structures in Salem District, VDOT Salem District, VA. Senior Bridge Engineer with responsibility for quality control of review of design calculations and bridge plans on 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.			
05/22-Ongoing	VDOT, Bridge Rehabilitation on Route 666 over Elk Creek, Bedford County, VA. Senior Bridge Engineer on a part time basis for the full duration of the project for VDOT. He is responsible for constructability review of bridge rehabilitation details and temporary member detailing and plan development. AECOM was retained by VDOT to rehabilitate the 100-year-old, structurally deficient truss on Route 666. This structure consists of a 20-foot-deep steel deck truss supporting a stringer-floor beam system and timber deck. AECOM identified the scope of work and prepared the supporting documentation and cost estimate to secure State of Good Repair funding. AECOM also developed the final design plans for the bridge repairs, which includes replacement of the entire floor system, including deck, railing, stringers and floor beams, partial replacement of truss members, replacement of truss bearings, replacement of gusset plates, and replacement of the truss bracing system. Plans include details for installation of a temporary top chord in order to replace a portion of the existing top chord and also includes detailed sequencing of the truss repair work.			

05/20-09/21	VDOT, Grove Avenue over I-195 and CSX Railroad, Richmond, VA. Task Manager and Senior Bridge Engineer on this task to developed emergency plans for temporary strengthening of deteriorated steel girders, as well as live load rating analysis.
08/15-11/20	VDOT, Route 685 over Craig Creek (Phoenix Bridge), Botetourt County, VA. Senior Bridge Engineer with responsibility for field assessment, development of rehabilitation alternatives, and peer review of construction plans on this task 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.
07/12-02/23	VDOT, Route 17 over Norfolk Southern Railway and Route 805, Fauquier County, VA. Senior Bridge Engineer with responsibilities for quality control of calculations and construction drawings on this project to replace the superstructure and widen this three-span bridge carrying Route 17 SBL over the NSRW and Route 805. Existing substructure units were rehabilitated and widened using pile and drilled shaft foundations. Widening of approach embankments, with a height of 35 feet, required AECOM to perform a detailed geotechnical slope stability analysis.
03/18-07/21	VDOT, Route 15 Business (Remington Road) over the Rappahannock River, Culpeper County, VA. Task Manager and Senior Bridge Engineer on this project for rehabilitation of two Warren trusses and two concrete tee beam approach spans, to increase the load capacity and improve the condition. Truss span rehabilitation included replacement of several truss diagonals, end floor beams, and exterior stringers, interior floor beam repairs, and a new lightweight concrete deck. Approach span rehabilitation included curb and railing repairs, and a latex modified concrete overlay.
08/17-Ongoing	VDOT, Route 601 (Old Ivy Road) over Route 29/250 Bypass, Albemarle County, VA. Task Manager and Senior Bridge Engineer for this task for replacement of the bridge superstructure over the bypass. AECOM provided bridge alternative studies, including Accelerated Bridge Construction (ABC) alternatives, utility impact assessment, bridge and roadway construction plans, and maintenance of traffic plans. The new superstructure will be constructed in stages and will provide for increased vertical clearance over the bypass.
01/14-06/15	VDOT, Route 723 over Interstate 66, Fauquier County, VA. Task Manager and Senior Bridge Engineer for this project to repair steel girder distortion and fracture from impact by over height vehicle. AECOM developed innovative jacking beam and support details to replace the bottom flange and most of the web of the exterior beam above the WB lanes of Interstate 66. Services included bridge repair plans, jacking and support plans, and maintenance of traffic using both lane closures and full detours.
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). AECOM applied 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.			
	Name	Donna Pizzini, EI		Years of Relevant Experience with this Employer	1
	Title	Civil Engineer		Years of Relevant Experience with Other Employer(s)	3
Degree(s)/Years/Specialization		MS / 2022 / Environment Engineering; BS / 2022 / Environmental Engineering			
Active Registration Number/State/Expiration Date		EI.76588 / TX / 09.09.2030			
Year Registered	2022	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Hydrology/Hydraulics. Donna will assist with hydrologic and hydraulic calculations and preparation of drainage design plans.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
05/25 – 03/26	LADOTD, Bridge Replacement Program, LA. Engineer. Conducted hydrologic and hydraulic analysis of bridge crossings to evaluate drainage improvements in accordance with LADOTD Hydraulics Manual standards.				
01/26 – 02/26	MDOT, Bridge Replacement / Realignment, MI. Engineer. Performed hydrologic and hydraulic analysis of existing bridge crossings to support drainage improvements in accordance with MDOT Hydraulics Manual requirements.				
04/24 – 09/24	TxDOT, Roadway Drainage Improvement, TX. Engineer. Conducted analysis of underground storm sewer systems to address flooding along a state highway corridor and supported development of drainage improvement recommendations.				
09/23 – 02/24	City of Seguin, Washington Street Drainage Preliminary Engineering Report (PER), Seguin, TX. Engineer. Developed storm sewer and roadway improvement alternatives to alleviate corridor flooding. Conducted hydrologic and hydraulic analysis using StormCAD, evaluated alignment alternatives, and prepared a PER with supporting exhibits and constructability assessments.				
08/22 – 12/22	City of Eagle Pass, US 277 Detention and FEMA Mapping Engineering Services, Eagle Pass, TX. Engineer. Performed hydrologic and hydraulic analysis using HEC-HMS and HEC-RAS for a 3.06-square-mile watershed. Developed updated hydrologic models using Atlas 14 rainfall data, completed detention design and no-adverse-impact floodplain analysis, and prepared CLOMR documentation and supporting exhibits.				
07/23 – 09/23	Texas State University, Clean Coast Texas Collaborative, Rockport, TX. Engineer. Supported siting of stormwater control measures and preparation of construction plans for demonstration projects implementing Low Impact Development (LID) strategies to improve water quality and manage runoff within coastal communities.				

	Firm	AECOM Technical Services, Inc.		
	Name	Audra Rodgers, PE	Years of Relevant Experience with this Employer	13
	Title	Railroad Coordination	Years of Relevant Experience with Other Employer(s)	8
Degree(s)/Years/Specialization		BS/2002/Civil Engineering MS/2003/Civil Engineering		
Active Registration Number/State/Expiration Date		130275/TX/07-31-2027		
Year Registered	2018	Discipline	Civil Engineer	
Contract Role(s)/Brief Description of Responsibilities		Railroad Coordination. Audra has 21 years of experience in the structural and bridge industry as both a Project Engineer and Project Manager on numerous projects. She has experience in precast concrete fabrication, construction observation, structural assessment and inspection, cellular tower analysis, railroad and highway bridge design and commercial structural engineering. Audra is proficient with computer aided design and drawing tools and is also well versed in bridge survey technical abilities in the field. She has performed public project reviews for both BNSF and UPRR for over 19 years.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/15-07/15	KCS Br. VD34.2 Vicksburg Subdivision, Delhi, LA. Project Manager and Engineer for the design of precast concrete double box beam KCS Br. VD34.2 Vicksburg Subdivision, Delhi, LA. Project Manager and Engineer for the design of precast concrete double box beam spans replacing an existing timber trestle spans on a bridge near Delhi, Louisiana. The main TPG spans were not replaced. m spans replacing an existing timber trestle spans on a bridge near Delhi, Louisiana. The main TPG spans were not replaced.			
07/15-12/15	KCS Br. L801.8 New Orleans Subdivision, Baton Rouge, LA. Project Manager and Engineer for the design of a multi-span precast concrete double box beam bridge replacing an existing 40-span timber trestle bridge near Baton Rouge, Louisiana. H&H analysis and survey services were also provided. The bridge was shortened at one end by filling spans. A golf course path and bridge runs under the railroad bridge and had to be considered in the design. KCS Br. L801.8 New Orleans Subdivision, Baton Rouge, LA. Project Manager and Engineer for the design of a multi-span precast concrete double box beam bridge replacing an existing 40-span timber trestle bridge near Baton Rouge, Louisiana. H&H analysis and survey services were also provided. The bridge was shortened at one end by filling spans. A golf course path and bridge runs under the railroad bridge and had to be considered in the design.			
07/15-07/16	KCS Br. K646.5 Beaumont Subdivision, LA. Project Manager and Engineer for the design of a multi-span precast concrete double box beam bridge replacing an existing 66-span timber trestle bridge near Florien, Louisiana. The flood elevation was within the existing bridge depth, requiring the bridge to be raised. Special consideration was given to keeping the bridge open as much as possible during staged construction. The alignment of the track was shifted so that the new bridge could be built adjacent to the existing bridge.			
07/16-01/17	Mississippi Department of Transportation (MDOT) US 84 over Mississippi River Bridges Fracture Critical and Element Inspections, MS. Inspection Team Leader. MDOT needed Fracture Critical and Routine Element Inspections of both the Eastbound and Westbound Bridges on US 84 over the Mississippi River. Landon acted as Deputy Project Manager and Inspection Team Leader on the project, and prepared the final inspection report.			

01/17-12/17	72nd Street Bridge Replacement, Omaha, NE. Project Coordinator. In charge of all railroad coordination with Union Pacific Railroad (UPRR) for the 72nd Street Bridge Replacement Project for the City of Omaha. The bridge is an overpass structure over UPRR tracks. Ms. Rodgers is responsible to negotiating the project through railroad reviews and approvals.
06/15-Ongoing	West Dallas Gateway Project, West Dallas, TX. Bridge Lead, Lead Project Engineer. In charge of the design of three railroad underpass grade separation bridges. The grade separations will allow for Bataan Street, Amonette Street, and Herbert Street to pass under the existing UPRR tracks, which currently separate the two areas of the City. The bridges will be built in phases, with the north half of the bridge being built first while the tracks are shifted to the south and the south half of the bridge built when the tracks are shifted onto the new north bridge. This minimizes the time that the UPRR tracks are out of service on a busy section of track.
02/15-Ongoing	Springfield Rail Improvement Project, Springfield, IL. Bridge Review Lead, Lead Project Engineer in charge of the review of the design plans, design calculations, specifications, geotechnical reports and drainage reports on behalf of UPRR for ten underpass structures for the Springfield Rail Improvement Project. Underpass bridges include bridges over Carpenter St., Ash St., Laurel Ave., 5th St., 6th St., Cook St., S Grand Ave., Madison St., Jefferson St., and N Grand Ave. Bridges consist of steel beam or deck plate girder spans with steel deck and drilled shaft substructures. The project includes construction submittal review and some construction observation.
01/19-12/21	Union Pacific Railroad Annual Bridge Replacement Program, Various Locations. Layout, design, and coordination on multiple bridge replacements of timber structures on the UPRR system. Bridges were replaced with either new standard precast concrete spans on pile bents or pipe culverts.
04/09-05/10	Wellborn Road, College Station, TX. Project Engineer for the design of two double span railroad bridges on the Texas A&M campus over Wellborn Road. The superstructure consisted of steel beam spans. The substructure consisted of drilled shafts, some with tension ties utilized to minimize deflection due to expansive soils.
06/09-05/10	Westrail By-Pass, Brownsville, TX. Project Engineer for the design of a multi-span, over 1000 ft. long railroad bridge over the Rio Grande River in Brownsville, Texas. The superstructure consisted of precast concrete box, steel beam, and through plate girder spans. The substructure included pipe piles and drilled shafts. Homeland security requirements were essential considering half of the bridge is located in Mexico.

	Firm	AECOM Technical Services, Inc.			
	Name	Brady Seston, SE		Years of Relevant Experience with this Employer	14
	Title	Bridge Deck NDT		Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization		BS/2011/Civil Engineering			
Active Registration Number/State/Expiration Date		PE 45072/WI/07.31.2026			
Year Registered	2018	Discipline	Civil Engineer		
Contract Role(s)/Brief Description of Responsibilities		Bridge Deck NDT. Brady is responsible for the coordination and scheduling of NDT inspection activities using infrared thermography, ground penetrating radar or concrete coring. As the NDT engineer, he has been responsible for client relationships, schedule coordination, data collection and reporting on numerous projects throughout the United States. Brady has worked with local municipalities, counties and state department of transportations on projects ranging from single bridge or roadway projects to yearly system wide inspection and rehabilitation projects. His diverse project background is beneficial in collaborating between multiple project staff and agencies.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
06/16-04/17	LADOTD, I-10 Atchafalaya Basin Bridge, Lafayette, LA. Project Engineer for the ground penetrating radar (GPR) survey using air-launched antennas to locate and quantify potential deterioration and depth of cover over the top layer of reinforcing steel in the concrete deck of the Atchafalaya Basin Bridge between Baton Rouge and Lafayette, Louisiana. The project included inspection of the driving lanes and shoulders in both directions and analysis of the westbound lanes only. The deck area of the westbound bridge totaled approximately 3,795,000 square feet.				
12/15- 02/16	LADOTD, LA Route 1 over Port Allen Canal, Baton Rouge, LA. Project Engineer for the infrared thermographic and (IR) ground penetrating radar (GPR) survey using ground contact antennas to locate and quantify delaminations and depth of cover over the top layer of reinforcing steel in the concrete deck of the Louisiana Route 1 bridge over the Port Allen Canal in Baton Rouge, Louisiana. The project included inspection and analysis of the driving lanes and shoulders in both directions. The total deck area inspected was approximately 140,000 square feet.				
05/25-Ongoing	Wisconsin DOT, Statewide Vehicle IR and Chloride Ion Coring WO 2, Wisconsin. Project Manager for the statewide infrared thermographic (IR) inspection to locate and quantify delaminations in the concrete deck of 57 bridge decks for WisDOT. The project includes the inspection of the driving lanes and shoulders of the bridge decks. IR Plan views were created for each bridge to show the location of each defect. The IR surveys are used to assess the condition of the bridge deck. The deck area of the bridges totaled approximately 504,600 square feet. The project also included statewide concrete coring to determine the chloride ion content in the concrete deck of 43 bridge decks for WisDOT. The project consists of taking a minimum of three cores per deck for chloride testing. A total of 125 cores and 250 chloride ion tests were planned.				

05/24-02/25	Wisconsin DOT, Statewide Vehicle IR and GPR Surveys WO 4, Wisconsin. Project Manager for the statewide vehicle infrared thermographic (IR) to locate and quantify delaminations in the concrete deck of 219 bridges for WisDOT. The project includes the inspection of the driving lanes and shoulders of the bridge decks using vehicle-mounted thermal cameras. Infrared plan views were created for the bridges to show the locations of each defect. The IR surveys are used to determine the bridge deck condition. Ground penetrating radar (GPR) inspections consisted of using air-launched horn antennas to locate the depth of cover over the top layer of reinforcing steel and potential deterioration on 22 bridges. The deck area of the bridges totaled approximately 2,378,000 square feet.
05/24-05/25	Wisconsin DOT, Statewide Underside IR and Chloride Ion Coring WO 5, Wisconsin. Project Manager for the statewide underside infrared thermographic (IR) inspection to locate and quantify delaminations on the deck underside of 47 bridges for WisDOT. Infrared plan views were created for the bridges undersides to show the locations of each defect. Project Manager for the statewide concrete coring to determine the chloride ion content in the concrete deck of 44 bridge decks for WisDOT. The project includes taking a minimum of three cores per deck for chloride testing. Plan views were created to show location of each core along with the crown and slope of each deck. A total of 147 cores and 294 chloride ion tests were taken.
12/24-07/25	Mississippi DOT, Statewide IR, GPR and Coring, Mississippi. Project Engineer for the infrared thermographic (IR), ground penetrating radar (GPR) and underside surveys. The IR survey located and quantified the delamination in the concrete bridge decks. The GPR survey consisted of using air-launched horn antennas to locate the depth of cover over the top layer of reinforcing steel. The project included IR and GPR inspections of the top side of the deck. These surveys were combined to determine rehabilitation areas. In addition, 10 cores were taken to determine the chloride ion content in the bridge decks and to calibrate the GPR signal. The deck area of the bridges totaled approximately 63,700 square feet.
07/23-10/23	Michigan DOT and International Bridge Administration, International Bridge in Sault Ste. Marie, Michigan. Project Engineer for the infrared thermographic (IR) survey and concrete coring of the International Bridge. The IR survey located and quantified the delamination and patching in the Silica Fume Modified Concrete (SFMC) overlayed bridge deck. The infrared results were compared to previous AECOM infrared surveys collected in 2008, 2013 and 2018. The deck area of the bridge totaled approximately 260,000 square feet.
09/22-04/23	Connecticut DOT, Pearl Harbor Memorial Bridge – Q-Bridge, Connecticut. Project Engineer for the infrared thermographic (IR) and ground penetrating radar (GPR) surveys of the Q-Bridge. The IR survey located and quantified the delamination and patching in the LMC overlayed bridge deck. The GPR survey used a handheld GPR antenna to locate the depth of cover over the top layer of reinforcing steel in the shoulders of the main span. In addition, core locations were marked out to be taken by others. The deck area of the bridge totaled approximately 935,000 square feet. A total of 408 GPR data profiles were collected.

	Firm	AECOM Technical Services, Inc.			
	Name	Bradley Touchstone, FAIA		Years of Relevant Experience with this Employer	7
	Title	Architectural Feasibility		Years of Relevant Experience with Other Employer(s)	26
Degree(s)/Years/Specialization		BA/1993/Architecture			
Active Registration Number/State/Expiration Date		Registered Architect #6057/LA /12.31.2026			
Year Registered	2004	Discipline	Architecture		
Contract Role(s)/Brief Description of Responsibilities		Architectural Feasibility. Bradley will use his years of design and facilitation work to help facilitate agreement on bridge and urban design issues. He has over 25 years of experience as a Bridge Architect and in using design features to mitigate impacts associated with visual change, Section 4(f) and S106.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
08/23-Ongoing	Brent Spence Bridge Corridor (BSBC), Cincinnati, OH. Bridge Architect. The BSBC project is designed to improve approximately 8 miles of Interstates 71 and 75 through Kentucky and Ohio, including the addition of a new companion bridge to the existing Brent Spence Bridge to reduce congestion, improve traffic flow and safety, and maintain key regional and national transportation corridors. Bradley has led an extensive aesthetic design process and has worked with the structural team from project conception to develop this new iconic bridge.				
09/24-Ongoing	Portage Bay Bridge, Seattle, WA. Bridge Architect. Bradley is serving as the Bridge Architect for the Design Build Team, responsible for ensuring that all aesthetic requirements for the bridge is delivered per the technical requirements of the project. The work includes extensive engagement with both the Owner's project delivery team and the local community.				
03/16-08/19	Gordie Howe International Crossing, Detroit, MI. Bridge Architect and Aesthetics Lead responsible for the development of the aesthetic design requirements for the main bridge and lead author for the aesthetic design guidelines for the entire \$2.7 billion project. Bradley served as lead aesthetic consultant to the owner (Windsor-Detroit Bridge Authority) during the two year procurement P3 procurement process.				
02/08-12/11	LADOTD State Project No. 052-02-0024 John James Audubon Bridge, Point Coupee and West Feliciana Parishes, LA. Bridge Architect responsible for the aesthetics associated with the new Audubon Bridge over the Mississippi River in St. Francisville, LA				
11/15-05/17	LADOTD State Project No H.003495, I-49N Segment K – Phase I (I-220 to MLK Dr.), Shreveport, LA. Bridge Architect responsible for aesthetics, public involvement and coordination of the art in public places installation on the new bridge.				
06/11-12/12	Hastings Bridge, Hastings, MN. Bridge Architect and Visual Quality Manager for the replacement of the existing bridge over the Mississippi River. Bradley led the architectural design and public involvement process for the river bridge.				
01/14-04/16	Red Wing Bridge, Red Wing, MN. Bridge Architect for stakeholder involvement and preliminary design for the new Mississippi River crossing in historic downtown Red Wing, MN. This work included to development of the Aesthetic Design Guidelines that directed the development of the final bridge design.				

	Firm	AECOM Technical Services, Inc.			
	Name	Greg Trahan, PE, RSP1		Years of Relevant Experience with this Employer	16
	Title	Roadway Design		Years of Relevant Experience with Other Employer(s)	1
Degree(s)/Years/Specialization		BS/2005/Civil Engineering			
Active Registration Number/State/Expiration Date		PE.0036041/LA/03.31.2027			
Year Registered	2011	Discipline	Civil Engineer		
Other Training		ATSSA Traffic Control Supervisor Refresher – LA State Specific (2027), ATSSA Flagger Course RSP1 No. 883/ 2028, LADOTD Process and Report Parts 1, 2, and 3 (2018)			
Contract Role(s)/Brief Description of Responsibilities		Maintenance of Traffic/TMP. Greg is a civil engineer experienced with working on roadway design and traffic projects. He has worked hard delivering credible and quality projects for AECOM since graduating college. During his time with AECOM, he has had experience as a Project Engineer and Project Manager for many transportation, planning, design, specification, and construction projects. He was elected President of the Baton Rouge Louisiana Engineers Society in May 2020.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
05/13-Ongoing	LADOTD, State Project No. H.001779.5 Red River Bridge at Jimmie Davis Highway (LA 511) EA, Bossier and Caddo Parishes, LA. Assisted in preparing a feasibility study to widen the existing crossing of the Red River along Jimmie Davis Bridge and to connect shared use bicycle and pedestrian paths on each side of the river. Task included geometrics study of highway and interchange ramps to produce three feasibility alternatives.				
11/04-12/07	LADOTD State Project No. 700-92-0016, Florida Avenue Bridge over IHNC, New Orleans, LA. Assisted in the geometric design of two interchange ramps connecting to Florida Ave. Bridge and two relocated parking areas for two major public installations in the project area. He assisted in the design of girder splices for the steel main span alternative. He also assisted in the preparation of quantity calculations and cost estimates for the steel main span alternative.				
09/17-Ongoing	Coastal Protection and Restoration Authority, LA 23 Over Mid-Barataria Sediment Diversion, Plaquemines Parish, LA. Project Engineer that 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. Design Plans include Plan and Profile sheets, Drainage Plan and Profile sheets, Sequence of Construction Plans. There will be multiple construction activities being conducted at one time, the sequence of Construction is a critical element of design in order to manage traffic and maintain roadway operations even if evacuation routes would be required.				
07/14-12/14	LADOTD, Krotz Springs Bridge and Business US 90 Bridge In-Depth Bridge Inspection, LA. Project Engineer that assisted in the Maintenance of Traffic Plans for the inspection of the Krotz Springs Bridge and the Business US 90 Bridge. These plans included provisions to detour traffic from the closed portions of the bridge or entrance ramps.				

02/07-6/10	Baton Rouge Dept. of Public Works, Siegen Lane Improvements, Highland Rd. to 650' south of Perkins Rd., Baton Rouge, LA. Project Engineer that assisted in the design and plan development to widen 1.18-mile segment of Siegen Lane to a four lane boulevard. Tasks include the geometric design of the roadway, subsurface drainage, and the development of the sequence of construction. The drainage area encompassed approximately 225 acres. A study was conducted on the multiple detention ponds, using a pond modeling program to determine if the box culvert system would need to be upgraded. A HEC-RAS model was conducted on an existing drainage ditch crossing Siegen Lane to ensure that the proposed drainage would not exceed the existing tail water elevation. The sizing and spacing of culverts and inlets was determined using the LADOTD HYDRWIN hydraulics program. Prepared quantities and cost estimates for the project.
05/14-Ongoing	LADOTD, Earhart Expressway Extension to US 61, Jefferson Parish, LA. Project Engineer for the traffic study involving the new extension of the Earhart Expressway a six lane urban freeway, to Airline Drive, a four-lane highway, for a total of ten lanes. The study will include analyzing existing and future conditions along the US 61 (Airline Highway) and LA 3154 (Dickory Avenue). As part of this project Greg is analyzing design alternatives, traffic data collection (speed and vehicular classification) along the corridor, and crash data.
11/04-12/07	LADOTD State Project No. 700-92-0016, Florida Avenue Bridge over IHNC, New Orleans, LA. Assisted in the geometric design of two interchange ramps connecting to Florida Ave. Bridge and two relocated parking areas for two major public installations in the project area. He assisted in the design of girder splices for the steel main span alternative. He also assisted in the preparation of quantity calculations and cost estimates for the steel main span alternative.
05/13-Ongoing	LADOTD, State Project No. H.001779.5 Red River Bridge at Jimmie Davis Highway (LA 511) EA, Bossier and Caddo Parishes, LA. Assisted in preparing a feasibility study to widen the existing crossing of the Red River along Jimmie Davis Bridge and to connect shared use bicycle and pedestrian paths on each side of the river. Task included geometrics study of highway and interchange ramps to produce three feasibility alternatives.
12/10-0/17	LADOTD, Safety Studies Retainer Contract, Low Cost Safety Improvements, Statewide, LA. Project Engineer for the preparation of Safety Improvement Plans (SIP) for 282 systemic curves located throughout the state of Louisiana. The tasks associated with this project include; site visits to the curves, plan preparation of safety countermeasures for each curve, cost estimates for the plan set, and a pre-construction meeting with each LADOTD district. Each site visit includes; a ball bank test, photo and an existing conditions documentation of each curve. The plan preparation includes deriving safety countermeasures at each curve location, preparing a letter size plan set of the safety countermeasures, including the Crash Modification Factors (CMFs) within the plan sheet, and preparing cost estimates for the safety countermeasures. After the completing each letter size plan sets, a meeting was held with each District to discuss countermeasures.
02/16-Ongoing	Jefferson parish Public Works, Mounes St. Drainage Improvements, Jefferson Parish, LA. Project Engineer for the traffic control plans for the construction of the drainage improvements along Mounes Street. Plans included the phasing of traffic to install inground box culverts within the limits of the travel lanes
05/10-09/12	LADOTD State Project No. H.005171.1, I-49 Study to Identify Interim Improvements for Safety & Efficiency, St. Mary Parish, LA. Aided in identifying roadway projects that would provide increased capacity or improved safety along the US 90 corridor. Some of the improvements may upgrade portions of US 90 to interstate standards.
05/10-04/13	LADOTD, LA 935 Feasibility Study, Safety Retainer Contract, Ascension Parish, LA. Project Engineer performed a Stage 0 on a segment of LA 935 from LA 431 to LA 22. Developed a conceptual alternative for the realignment of LA 935, including the typical section, design criteria, plan, and cost estimate. The road paralleling Black Bayou was realigned approximately 20' off the original alignment. This realignment allowed for the road to be widening to 12' lanes and add shoulders to provide a recovery area for drivers. AECOM also performed a cost analysis to ensure the feasibility of a build/no-build condition, minimize required ROW and/or acquisition of properties.

	Firm	AECOM Technical Services, Inc.		
	Name	Carlos Turcios, PE, MBA, LEED AP BD+C	Years of Relevant Experience with this Employer	15
	Title	Electrical	Years of Relevant Experience with Other Employer(s)	12
Degree(s)/Years/Specialization		MBA/2004/International Business BS/1998/Electrical Engineering		
Active Registration Number/State/Expiration Date		PE#44826/LA/03.31.2027 Additional active licenses: NY, FL, KY, CA, MI, WA, PA, MD, WI		
Year Registered	2020	Discipline	Electrical Engineering	
Contract Role(s)/Brief Description of Responsibilities		Electrical. Carlos is a lead Electrical Engineer with 22 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 (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
04/25-Ongoing	LADOTD Movable Bridge Rehabilitation Contract, Multiple Locations Throughout Southern Louisiana. Electrical Engineer for a contract including condition inspection, load rating, recommendation for repair/replacement and design of rehabilitation/new bridge for 5 movable bridges throughout Louisiana. AECOM was selected for this task which includes three bascule bridges, one swing bridge and one pontoon span as well as all approach spans. Inspections are currently underway for the five structures.			
03/21-05/21	City of Appleton, Bascule Bridges Inspections and Rehabilitations, Appleton, WI. Provided electrical inspection services for the City of Appleton Lawe St. and Olde Oneida Bascule Bridges. 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 for the State of Louisiana, 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-Ongoing	Wisconsin Department of Transportation (WisDOT), Racine Street Bascule Bridge over the Fox River, Appleton, WI. Providing 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. Provided control engineering witnessing services as part of the bridge start up. 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. Providing 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 of record 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,
04/18-Ongoing	Windsor-Detroit Bridge Authority, Gordie Howe International Crossing, Detroit, MI/Windsor, Ontario, Canada. Lead electrical designer for a 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.
06/18-09/18	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.
10/18-02/19	FDOT, Long Boat New Pass Bridge, Sarasota, FL. Performed an on-site electrical bridge inspection with a 480/277 volt, three phase, four wire electrical distribution system, motor control center, variable speed drives, span-drive motors, electrical panelboards, generator, automatic transfer switch, step-down transformers, lighting, grounding, Programmable Logic Controller (PLC) based control system, relay panels, control console, limit switches and other related equipment. As the Engineer of record, created bidding documents to replace two span end lock systems, a submarine cable for power/controls and two vehicle barrier control systems.

	Firm	AECOM Technical Services, Inc.			
	Name	Kendra VanGorp, EI		Years of Relevant Experience with this Employer	13
	Title	LPFR Load Ratings		Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization		BS/2007/Civil Engineering MS/2009/Civil Engineering			
Active Registration Number/State/Expiration Date		EI 0064207/CO			
Year Registered	2007	Discipline	Civil Engineer		
Contract Role(s)/Brief Description of Responsibilities		LPFR Load Ratings. Kendra is a bridge engineer with experience in multidisciplinary transportation projects including design of numerous highway structures, concrete box culverts, and retaining walls; load rating hundreds of existing and proposed bridges; and bridge widening, rehabilitation, preventative maintenance, and inspection. Design and load rating analysis include various structure types including precast prestressed I-girders, box girders, and steel plate girders over waterways, roadways, and railroads for state and local agencies.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
03/17-Ongoing	City and County of Denver, Park Avenue Viaduct Rehabilitation, CO. Bridge engineer for the \$14 million rehabilitation of an elevated viaduct structure consisting of five steel plate girder viaducts that frame into a central post-tensioned concrete waffle slab located over the BNSF and UPRR railroads and RTD tracks. The project includes modular expansion joint and bearing replacement; bridge deck repairs; replacement of concrete curb ramps and sidewalk on the waffle slab; concrete repair under the waffle slab; complex replacement of four overhead mast arm signals; painting steel girders; and resurfacing the bridge.				
09/21-Ongoing	City and County of Denver, Havana over Sand Creek Preventative Maintenance, Denver, CO. Bridge engineer for the sidewalk extension and preventative maintenance a 4-span, post-tensioned concrete bridge over Sand Creek in northeast Denver. As part of the maintenance efforts, infrared thermographic inspection was performed to locate delamination areas in the concrete deck for repair. Additional repairs to extend the bridge design life included expansion joint, bridge rail, pedestrian rail, end rail transitions, and asphalt replacement; epoxy injection and sealing of cracks; sidewalk resurfacing; and superstructure and substructure structural concrete coating.				
03/20-01/21	The City of Colorado Springs, Colorado Avenue Bridge Rehabilitation, Colorado Springs, CO. Bridge engineer responsible for load rating and quality checking the design and rehabilitation plans for two 95'-0" wide, 6-span precast concrete I-girder bridges over Sierra Madre Street and UPRR, and Monument Creek. The bridge decks were evaluated using ground penetrating radar survey to determine deck deterioration and depth of cover to reinforcing, as well as infrared thermographic survey to locate deck and overlay delamination. These bridges further underwent a life cycle cost analysis comparing two deck repair and overlay material alternatives, followed by recommendations for repair of displaced bearing devices; replacement of aging expansion joints; and repair of localized deck deterioration.				

05/18-06/19	CDOT, I-76 over Clear Creek Fatigue Study (CDOT NPS Contract), Adams County, CO. Field inspection engineer for a fatigue study for EB and WB I-76 over Clear Creek. 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.
01/19-12/19	ODOT, Bridge Load Ratings, Various Locations, OH. Bridge load rating engineer and quality checker for 30 bridges in Ohio using AASHTOWare BrR software. The structures typically included rolled steel beams and welded steel plate girders rated in accordance with Ohio DOT policies and AASHTO specifications. The rating team evaluated multiple complex structures to determine innovative methods to rate in BrR rather than using more costly methods using finite element analysis software.
06/16-06/18	CDOT, Bridge Load Ratings (CDOT NPS Contract), Various Locations, CO. Bridge load rating engineer and quality checker for 64 structures using AASHTOWare BrR software in accordance with the CDOT Bridge Load Rating Manual and AASHTO specifications. Structure types include concrete slab and girder, continuous concrete slab and girder, continuous steel girder bridges, and reinforced concrete t-beam structures. The project included working directly with the CDOT to deliver rating packages under tight schedule and budget constraints.
05/12-09/15	UDOT, UDOT Bridge Load Rating Program, Various Locations, UT. Rating engineer of over 150 structures using AASHTOWare BrR Software in accordance with the 2014 UDOT Bridge Management Manual. The structures included reinforced concrete box culverts, concrete frames, prestressed concrete bridges, and analysis of bridges without as-built plans.

	Firm	AECOM Technical Services, Inc.			
	Name	Sean Voisinet, PE		Years of Relevant Experience with this Employer	12
	Title	Bridge Design		Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization		BS/2012/Architectural Engineering			
Active Registration Number/State/Expiration Date		PE.0046645/LA/09.30.2026 Additional active licenses: TX, CO			
Year Registered	2022	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Bridge Design. Sean is a bridge engineer with more than 12 years of experience in the structural design, rehabilitation, and widening of urban street, highway and railway bridges in Colorado, Louisiana, Ohio, and Texas. His experience includes technical design and management primarily of prestressed concrete girder superstructures and complex concrete substructures as well as a variety of transportation structures including complex retaining walls, concrete box culverts, drainage junction structures, and traffic sign structures. His experience also includes developing design criteria, preparing design calculations, construction plans, project special provisions and project cost estimates formatted in accordance with client requirements and project criteria.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
03/18-Ongoing	LADOTD (H.004273), I-49 Connector, Lafayette, LA. Structural Engineer for the 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. Sean is responsible for developing conceptual layouts and preliminary design for eight precast concrete segmental span-by-span ramp bridges that frame into the 2-mile viaduct structure through the Lafayette Central Business District.				
09/23-01/25	TxDOT, I-35 Northeast Expansion (NEX) South Design-Build, San Antonio, TX: \$700 million design-build project to construct three elevated lanes in each direction along 4.2 miles of I-35. Sean was structures task lead for a team of four engineers and EOR for final design plans and calculations of a 33-span (4570 ft) segment of the NB elevated lanes bridge comprised of prestressed concrete T-girders. The substructure design consisted of both cast-in-place and precast hammerhead, multi-column, and straddle bent caps, including an eccentric post-tensioned cap and column C-bent with drilled shaft foundations.				
02/21-12/21	City of Fort Collins, Lemay Avenue over BNSF/Vine Improvements, Fort Collins, CO. Structure Engineer for the 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, Sean designed the single-span bridge comprised of a prestressed concrete box girder superstructure on integral abutments on steel piles with geosynthetic reinforced soil (GRS) supporting walls and a pedestrian underpass box culvert structure with wingwalls. Design efforts included railroad coordination and design submittals developed in accordance with the UPRR/BNSF RR Grade Separation Guidelines.				

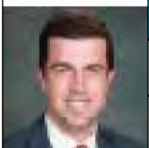
01/21-03/24	TxDOT, Southeast Connector Design-Build, Fort Worth, TX: Structures Task Manager and Segment Lead for this \$1.6 billion design-build project to reconstruct and widen 16.6 miles of I-820, I-20 & US-287. Sean was a segment lead responsible for coordination and scheduling for 6 teams designing 23 bridges as well as EOR for 7 bridges within the segment. As EOR, Sean led a team of 7 engineers to develop final plans and calculations for 4 prestressed concrete Tx I-girder bridges on multi-column bents and shafts carrying I-20 WB/EB over UPRR and 3 major waterway crossings.
07/19-12/21	TxDOT, I-635 LBJ East Design-Build, Dallas, TX: Design-Build project to reconstruct and widen 11 miles of interstate roadway. Sean was the structural design engineer responsible for a 24-span (3100 ft) direct connector bridge at the I-635/I-30 Interchange comprised of prestressed concrete Tx I-girders on hammerhead bents on two drilled shaft footing caps and multi-column straddle bents on monoshaft foundations. Additional responsibilities included final substructure and foundation design for the 280 ft span Skillman St. Tied Arch Signature Bridge supported on abutment caps and drilled shafts.
02/21-12/21	City of Fort Collins, Lemay Avenue over BNSF/Vine Improvements, Fort Collins, CO: Sean was the Structures Engineer for the design development for a new bridge crossing over Vine Street and the BNSF Railway tracks in Fort Collins. Using a CM/GC project delivery, Sean designed the single-span bridge comprised of prestressed concrete box girders on integral abutments on steel piles with geosynthetic reinforced soil (GRS) supporting walls and a pedestrian underpass concrete box culvert structure with wingwalls.
04/16-11/20	CDOT, C-470 Express Tolled Lanes Design-Build, Denver, CO: \$215 million design-build project for 12.5 miles of interstate reconstruction, widening and bridge rehabilitation. Sean was the lead structural designer for six bridge widenings comprised of prestressed concrete BT girder superstructures on hammerhead bents on drilled caissons and integral abutments on steel piles. Sean was also lead designer for a 9-span (1150 ft) flyover structure with prestressed concrete BT girders on hammerhead and inverted tee bents on drilled caissons and semi-integral abutments on drilled caissons. Independent designer responsibilities included cast-in-place cantilever retaining walls, special drainage junction structures, sound walls, and non-standard monotube overhead sign structures. Sean was also the Structures Lead for construction support services including answering RFIs, field design changes, and overseeing deck rehabilitation and other construction activities.
09/18-05/19	LADOTD (H.011670), I-10 at Loyola Drive Interchange Design-Build Tender Offer, Kenner, LA: Structures Engineer for interchange improvements at the I-10 at Loyola Drive to provide new access ramps to and from the new passenger terminal at Louis Armstrong International Airport. Sean's design tasks included evaluating alternative technical concepts, preliminary design and layouts for prestressed concrete LG girder superstructures, proposal plan development and quantity calculations for estimating and bid.
11/14-07/19	CDOT, SH60 & SH257 over Little Thompson River Bridge Replacements, Milliken, CO: Sean was the lead designer for a 3-span bridge and the independent designer for a 2-span bridge over the Little Thompson River. Superstructures were comprised of prestressed BT girders on multi-column bent caps on drilled caissons and integral abutments on steel piles. Additional design responsibilities included performing an existing conditions assessment with scour analysis based on damage that occurred due to flooding, which resulted in a recommendation for two bridge replacements, and completion of structure type selection reports.

	Firm	AECOM Technical Services, Inc.			
	Name	Landon Whitton, PE (CBI)		Years of Relevant Experience with this Employer	10
	Title	Bridge Rehabilitation/LRFR Load Ratings/ Bridge Inspection Task Leader/Task Manager		Years of Relevant Experience with Other Employer(s)	3
Degree(s)/Years/Specialization			BS/2009/Mechanical Engineering		
Active Registration Number/State/Expiration Date			PE.0041523/LA/09.30.2027 Additional active licenses: MS, AR		
Year Registered	2015	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			NBIS Inspections/Reporting. Landon will be one of AECOM's Bridge Inspection Team Leaders and part of the Bridge Rehabilitation Design Team for this contract. He 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 (mm/yy - mm/yy)		Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/25-Ongoing		LADOTD, No. H.015603: LA-641 Bridge Insp and Repair, St. James Parish, LA EIT tasked with assessing the scope of repair work including materials, labor and equipment, to generate accurate cost and quantity estimates, utilizing Microstation to develop bridge plans, girder layout and Girder Repair sheets, using Excel and Microsoft Word to summarize pre-inspection damage, and assisting on bridge inspection to evaluate damage on bridge by use of a boom lift to perform visual and physical examinations to identify wear and damage that could compromise the girders functionality in effort for the overall analysis and design of repair.			
08/17-Ongoing		Mississippi Office of State Aid Complex Inspections. Project Manager, Inspection Team Leader. Mississippi Office of State Aid (OSARC) hired AECOM to perform more than 500 inspections and load ratings of county and city bridges across the northern part of the state. Landon manages the project in addition to performing bridge inspections. Substructures include a mix of timber piling, steel H-pile, and reinforced concrete piles. Superstructure types inspected/evaluated include steel I-beams, prestressed girders, trusses, RC channel beams, RC culverts, RC slabs, girders made from steel railroad cars, and steel military bridges.			
03/20-Ongoing		North Dakota Department of Transportation, North Dakota County Bridge Inspections. Project Manager, 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. The substructures include a mix of timber pile bents, reinforced concrete configurations, steel H-pile bents, and masonry abutments. Superstructure types inspected/evaluated include steel I-beams, prestressed girders, trusses, RC channel beams, RC culverts, RC slabs, and steel pipe culverts.			
05/20-12/24		Mississippi Department of Transportation (MDOT), Scour Evaluations. Bridge Engineer. 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, and assisted in determining substructure penetration depths for future scour events.			
04/24-12/24		Mississippi Department of Transportation , I-110 over Biloxi Back Bay Movable Bridge In-Depth Inspection. Inspection Team Leader. AECOM performed the in-depth inspection of I-110 over Biloxi Back Bay. This bridge includes a twin double leaf bascule main span. Landon was an inspection team leader on the project, and prepared the approach span portions of the report.			

12/17-09/24	Mississippi Department of Transportation (MDOT), Post-Tensioned Load Ratings, MS. Project Manager and Load Ratings Engineer. MDOT hired AECOM to perform load ratings on 13 Post-tensioned bridges using CSI Bridge 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.
08/16-Ongoing	Mississippi Department of Transportation (MDOT), Phase-A Bridge Designs, Project Manager and Bridge Design Engineer, MS. Project Manager. Landon serves as project manager and lead bridge designer of the Phase A projects for the following locations: SR 15 in Tippah County, MS, SR 145 in Clarke County, MS, Madison Avenue in Madison County, MS.
05/20-06/25	Statewide Bridge Deck Scanning and Visual Surveys, Project Manager (Multiple Projects). AECOM performed deck scanning and visual surveys for 68 bridges in Mississippi. These surveys provided an in-depth analysis of the existing condition of these concrete bridge decks to be used for rehabilitation. Landon was responsible for both project management and performing visual surveys of the bridge deck undersides, prestressed concrete girder, reinforced concrete slabs and T-beams, timber, concrete box culverts and corrugated metal pipe culverts. Many of these inspections required collecting measurements for load rating analysis when bridge plans were not available.
05/15-05/16	Mississippi Department of Transportation (MDOT) NBIS Compliance Field Review (while at MDOT) MS. Review Team Member. Reviewed 20 inspections performed by MDOT bridge inspectors, by inspecting the subject bridges with the Local FHWA Bridge Engineer and MDOT's Inspection Program Manager. FHWA determined MDOT's compliance to the NBIS based on the results of this review.
08/12-06/15	Mississippi Department of Transportation (MDOT) Tennessee-Tombigbee Waterway Routine Inspections (while at MDOT). Inspection Team Leader on the inspection team for the yearly Fracture Critical inspections of five Bridges along the Tennessee-Tombigbee Waterway. Each Bridge contained a 1,000ft parabolic steel girder superstructure.
08/12-05/15	Mississippi Department of Transportation (MDOT) US 82 Cable-Stayed over Mississippi River Bridges Fracture Critical (while at MDOT), MS. Inspection Team Leader. In this project, MDOT needed a fracture critical inspection on the superstructure of the Cable-Stay Bridge in Greenville, MS over the Mississippi River. In this inspection, all fracture critical members on the underside of the deck were inspected. Landon helped with the inspection and report.

	Firm	AECOM Technical Services, Inc.		
	Name	Ed Zhou, PhD, PE	Years of Relevant Experience with this Employer	31
	Title	Instrumentation Task Leader/Task Manager	Years of Relevant Experience with Other Employer(s)	8
Degree(s)/Years/Specialization		BS/1982/Civil Engineering MS/1990/Civil Engineering PhD/1994/Structural Engineering		
Active Registration Number/State/Expiration Date		PE#21330/MD/09.2.2026 Additional licences in DE, VA		
Year Registered	1995	Discipline	Professional Engineer	
Contract Role(s)/Brief Description of Responsibilities		Instrumentation Task Leader/Task Manager. Ed is AECOM's Bridge Instrumentation & Evaluation Lead in North America, with 28 years of experience in engineering practice. He 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: co-author 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 (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
04/14-12/24	Connecticut DOT, Structural Monitoring of Extradosed/Cable-Stayed Pearl Harbor Memorial Bridge (I-95 over Quinnipiac River): Technical Leader for the development and implementation of a two-year structural monitoring program from 2020 to 2022 for the extradosed/cable-stayed 3-span dual structures consisting of post-tensioned 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 the two-year monitoring period.			

05/23-12/24	Maryland State Highway Administration (MDSHA): Vibration Monitoring of US 301 SB Bridge over Chester River during Adjacent Pile Driving, Maryland: Technical Leader for vibration monitoring of the five-span US 301 SB bridge over Chester River during pile driving for replacement construction of the adjacent US 301 NB bridge for possible excessive vibration of and damage to the existing structure. Work scope included: review of seismograph measurements of ground vibration for assessing possible structural damage per criteria of the United States Bureau of Mines (USBM) and Office of Surface Mining (OSM) based on particle velocity and wave frequency; installation of a wireless structural vibration monitoring system consisting of tri-axial accelerometers on bridge beams and piers as well as crackmeters across existing concrete cracks on abutments and piers; determination of natural vibration frequencies and mode shapes of the SB bridge; establishment of baseline structural dynamic responses to ambient traffic and test driving of steel sheet piles, steel pipe piles, and steel H piles; continuous monitoring of the SB bridge during production pile driving of the NB bridge and providing warnings if excessive vibrations are identified.
06/09 - 08/22	Maryland State Highway Administration (MDSHA): Evaluation and Preservation/Rehabilitation Studies of Two MD 90 Bridges, Ocean City, Maryland (2009, 2012-2013, 2015-2016, 2022): Technical Leader for multi-phased condition assessment, load rating, load testing, and preservation/rehabilitation strategies for two 1971-built MD 90 bridges over Assawoman Bay and St. Martin River, with a combined 203 spans of prestressed concrete (PSC) adjacent box beams and six (6) spans of cantilever-suspended PSC bulb-T girders of varying depth. Work scope included: (a) special inspection, condition classification, and load rating of deteriorated box beams and bulb-T girders with corroded and broken prestressing strands (2009); (b) replacement design of severely deteriorated suspended portion of PSC bulb-T girders with steel beams in one span (2009); (c) field demonstration of digital imaging technologies for structural condition assessment (2012); (d) instrumentation and load testing of two spans of PSC adjacent box beams for assessing the impact of a broken tie rod (2013); (e) load rating of all span types for the "as-built" and "as-inspected" conditions (2014); (f) rehabilitation concepts study through finite element modeling for eliminating deck joints at piers, improving partial height shear keys, replacing tie-rods with P-T bars, and adding a structurally composite reinforced concrete (RC) deck (2014-2015); (g) study for lifecycle planning cost-effective strategies to preserve the serviceability and durability of bridge superstructure (2015); (h) instrumentation and load testing of one span of PSC bulb-T girders to address insufficient load rating at girder field splices (2016); (i) application of photogrammetry, infrared thermography (IRT), and unmanned aircraft system (UAS) technologies for digital mapping of concrete defects for condition, performance, and deterioration assessment of the superstructure of all 209 spans of both bridges (2017-2019); and (j) evaluation of the superstructure and substructure of both bridges for increasing traffic capacity from the current two lanes to three lanes in both directions, identification of structural strengthening needs and development of cost-effective solutions as required (2022).

	Firm	Ardaman & Associates, Inc.		
	Name	Robert Jewell, PE	Years of Relevant Experience with this Employer	19
	Title	Geotech Task Leader	Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization		BS/2009/Civil Engineering		
Active Registration Number/State/Expiration Date		Professional Engineer, Civil No. 38579/LA/09.30.2026 Traffic Control Supervisor/LA/08.23.2028 LADOTD Flagger/LA/07.31.2029		
Year Registered	2013	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Geotechnical Task Leader. Robert serves as the manager of our Baton Rouge office and has over 15 years of experience with design and analyses of countless types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA & GEC design, slope stability (embankment and excavation) and earth retaining structures. He has managed and coordinated many geotechnical field investigations, including shallow and deep borings, CPT soundings, and performed analyses and prepares design recommendation reports for LADOTD projects. Mr. Jewell has extensive experience in construction phase testing and oversight including dynamic and static testing, pile integrity testing, cross hole sonic logging, settlement monitoring, and geotechnical instrumentation. In particular, he has over 15 years of experience performing, analyzing, and reporting for PDA testing.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/23-Ongoing	SP NO. H.013284 / MRB SOUTH GBRL: LA 1 TO LA 30 CONNECTOR: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA. Project Manager. The project consists of an Enhanced Planning investigation into S.P. No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments. Mr. Jewell managed supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile all the soil borings and ECPT. He helped oversee the preliminary engineering analyses which included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations. A data report and preliminary geotechnical assessment report were submitted.			
07/21-Ongoing	SP NO. H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR): Baton Rouge Parish, LA. Project Manager. The project consists of a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles. Mr. Jewell currently oversee all aspects of engineering analyses pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. Mr. Jewell helped develop the Geotechnical Data reports, memorandums, and Design reports for this project.			

09/22-Ongoing	EVANGELINE ROAD & CN RAILROAD CULVERT: St. Charles Parish, LA. Project Manager. Ardaman completed subsurface exploration and geotechnical engineering evaluation. The project consists of the installation of two reinforced concrete box culverts (RCBCs) on the north and south sides of the CN Railroad as it crosses over Evangeline Road near Montz, Louisiana in St. Charles Parish. Ardaman performed the geotechnical fieldwork and engineering evaluation including recommendations for site preparation, shoring and bedding recommendations, and pavement design in a final report.
07/23-Ongoing	SP NO. H.012030 / US 371: KCS RAILROAD OVERPASSES HBI: Webster Parish, LA. Project Manager. The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Ardaman performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.
04/21-Ongoing	SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / RURAL BRIDGE INITIATIVE PHASE II: West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA. Project Manager. The project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers, and creeks. Mr. Jewell oversees all aspects of engineering analyses pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses and construction testing program recommendations.
10/18-11/21	SP NO. H.003370 / I-220 / I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIR FORCE BASE ACCESS ROAD: Bossier Parish, LA. Project Manager. This was a Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructing an interchange and access road from Interstate 20 in Bossier City, Louisiana. Mr. Jewell managed and oversaw the preparation of the preliminary design and planning report. Mr. Jewell also oversaw the field construction services consisting of PDA monitoring, bi-directional load cell load tests, and settlement monitoring. The PDA program consisted of monitoring PPC piles during initial drive and restrikes to allow for evaluation of setup and early acceptance of pile resistances.
10/15-Ongoing	SP NO. H.013579 / PECUE LANE I-10 INTERCHANGE: East Baton Rouge Parish, LA. Project Engineer. This project consists of twin bridges with MSE wall abutments for both bridges crossing Interstate I-10, a bridge crossing Ward's Creek, and on/off-ramps in south Baton Rouge. Mr. Jewell helped perform analyses including settlement estimates with recommendations for monitoring, driven pile and drilled shaft design including down drag considerations, MSE Wall design, slope stability and pavement section recommendations; all completed according to LADOTD standards. Mr. Jewell is currently overseeing the construction phase which includes PDA monitoring, static load testing, and settlement monitoring.

	Firm	Ardaman & Associates, Inc.		
	Name	Jarmon King, PE	Years of Relevant Experience with this Employer	7
	Title	Geotechnical	Years of Relevant Experience with Other Employer(s)	1
Degree(s)/Years/Specialization		BS/2019/Civil Engineering		
Active Registration Number/State/Expiration Date		Professional Engineer, Civil No. 49179/LA/03.31.2027 Traffic Control Supervisor/LA/11.08.2027 LADOTD Flagger/LA/05.29.2028		
Year Registered	2024	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Geotechnical. Jarmon serves as a project engineer of Ardaman in the Baton Rouge office with over 7 years of experience. Mr. King is involved with overseeing and conducting geotechnical investigations. Mr. King also prepares soil boring logs; processes and analyzes Cone Penetration Test (CPT) sounding design and analyses of multiple types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA & GEC design, slope stability (embankment and excavation) and earth retaining structures. Mr. King has experience in overseeing and performing Pile Driving Analyzer (PDA) testing during the construction phase of projects.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/23-Ongoing	SP NO. H.013284 / MRB SOUTH GBRL: LA 1 TO LA 30 CONNECTOR: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA. Project Engineer. The project consists of an Enhanced Planning investigation into S.P. No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments. Mr. King helped oversee the field program, development of the laboratory testing program, development of an interactive geotechnical database to compile all the soil borings and ECPT. He helped perform the preliminary engineering analyses included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations. Mr. King assisted in preparation of the Data and Design reports for this project.			
07/21-Ongoing	SP NO. H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR): Baton Rouge Parish, LA. Project Engineer. The project consists of a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles. Mr. King co-manages and oversees the engineering analyses pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. Mr. King helped develop the Geotechnical Data reports, memorandums, and Design reports for this project.			

04/21-Ongoing	SP NOS. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / RURAL BRIDGE INITIATIVE PHASE II: West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA. Assistant Project Engineer. This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers and creeks. Mr. King assisted in engineering design pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses, construction testing program recommendations, and report preparation in accordance with LADOTD guidelines.
07/23-Ongoing	SP NO. H.012030 / US 371: KCS RAILROAD OVERPASSES HBI: Webster Parish, LA. Assistant Project Engineer. The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Ardaman performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.
07/21-01/22	SP NO. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA. Assistant Project Engineer. Assisted with all aspects of this project pertaining to coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 electrical resistivity (ER) geophysical survey transects. Most of the soil borings were completed from a barge, some over a considerable amount of water. Some soil borings were completed from a marsh buggy over shallow water and thick marsh grass. He also assisted with the laboratory testing program, processing and analyzing of the ECPT and ER data, development of a geotechnical database and preparation and submittal of a geotechnical data report. This project consisted of obtaining preliminary geotechnical data under an extremely strict deadline to be used in the design phase of a project that will consist of replacing the existing I-10 Calcasieu River Bridge with a new structure and improvements to various other interchanges.
06/20-11/22	SP. NO. H.002825 / NICHOLSON DRIVE (LA HWY 30) SEGMENT 1: East Baton Rouge Parish, LA. Assistant Project Engineer. This project consisted of the reconstruction and widening of a section of Nicholson Drive between the intersections of Brightside Lane and Burbank Drive for the MOVEBR Program. Thirteen shallow soil borings and two deep soil borings were drilled at the subject site and associated laboratory testing was performed. Mr. King oversaw the field investigation and engineering analyses which included pavement and culvert crossing design recommendations in accordance with LADOTD specifications.
10/18-11/21	SP NO. H.000263 / CHEF MENTEUR PASS BRIDGE & APPROACH: Orleans Parish, LA. Assistant Project Engineer. Helped produced soil boring logs and CPT soundings in LADOTD format. Assisted with development of the data report.
03/19-07/20	SP NO. H.003370 / I-220 / I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIR FORCE BASE ACCESS ROAD: Bossier Parish, LA. Assistant Project Engineer. This was a Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructing an interchange and access road from Interstate 20 in Bossier City, Louisiana. Mr. King assisted with the construction monitoring aspect of the project which included PDA testing and CAPWAP analyses.

	Firm	Bridge Diagnostics, Inc.			
	Name	Steven Fall Jr., PE		Years of Relevant Experience with this Employer	6
	Title	Material Testing		Years of Relevant Experience with Other Employer(s)	1
Degree(s)/Years/Specialization		BS/2019/Civil Engineering			
Active Registration Number/State/Expiration Date		PE.0048637 / LA / 09/30/2026			
Year Registered	2024	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Material Testing. Beginning work for BDI in May of 2019, Mr. Fall has spent more than 6 years in the private sectors in both non-destructive testing and evaluation and routine infrastructure inspection and monitoring and is the current office manager of the Louisiana office. Mr. Fall has been involved with non-destructive testing and evaluation of hundreds of structures including bridges, buildings, and hydro-structures such as lock gates and spill gates. His involvement in these projects included project management, planning, implementation, installation of instrumentation, testing, data processing, data review, and reporting. Previously, Mr. Fall worked with HNTB inc. working in the transportation and civil department performing inspections of substructures and bridges on various jobs. He is a member of ASCE and ACI in the Louisiana chapter. Mr. Fall is a certified Professional Engineer, SPRAT L1 ropes access technician, ASNT Level I GPR inspector, and Team Lead under FHWA guidelines for routine inspections. He is also a certified traffic control supervisor, traffic control technician, and flagger in the state of Louisiana. He also has worked with various NDE methods for fracture critical techniques including but not limited to Magnetic Particle Testing, Ultrasonic Testing (UT), and Dye Penetrant Testing. He graduated from the University of New Orleans with a bachelor's degree in civil engineering.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
05/23-Ongoing	Retainer Contract for Non-Destructive Evaluation of Statewide Structures (DOTD Contract 4400025002) – Louisiana Department of Transportation awarded BDI with the retainer contract for Non-Destructive Evaluation of Statewide Structures. This IDIQ has 8 Task Orders awarded and will continue until 2025. These task orders include but are not limited steel inspection using Ultrasonic testing and Magnetic Particle Testing; deck evaluations via non-destructive testing methods including SounDAR, Ground Penetrating Radar, Infrared Thermography, and High Resolution Imaging; material sampling using coring; NHI routine and fracture critical inspections; and emergency response efforts. Mr. Fall serves as the project manager for this contract and is responsible for the testing plan development and application, team management, and QA/QC of various project tasks.				

11/23-12/23	Paris Road Emergency Bridge Inspection in Chalmette, LA – After noting a critical finding in a routine inspection on bridge recall 001621 by LADOTD on Paris Rd., BDI was called to perform an emergency in-depth inspection on the underside of the structure along with an NDE of the deck. The inspection results lead to repairs on the bridge and the reopening of the structure. Mr. Fall was the inspection lead on this project for both the NBIS emergency inspection and the Non-destructive testing and evaluation of the structure. He was also responsible for the project management and reporting on the structure.
01/21-05/23	Task Orders for Retainer Contract for Non-Destructive Evaluation of Statewide Structures (DOTD Contract 4400017163) – Louisiana Department of Transportation awarded BDI with the retainer contract for Non-Destructive Evaluation of Statewide Structures. This IDIQ had 13 Task Orders awarded and lasted until 2023. These task orders include but are not limited steel inspection using Ultrasonic testing and Magnetic Particle Testing; deck evaluations via non-destructive testing methods including SoundAR, Ground Penetrating Radar, Infrared Thermography, and High Resolution Imaging; material sampling using coring; NHI routine and fracture critical inspections; and emergency response efforts. Mr. Fall served as a staff engineer for this project and was responsible for the testing plan development and application, team management, and field application of the various project tasks.
06/2022-06/2022, 06/2023-06/2023	Counterweight Balance Testing of the Seabrook Bascule Bridge (Port of New Orleans) in New Orleans, LA –This bridge is a Strauss double heal-trunnion bascule bridge that carries St. Claude Avenue over the Industrial Canal. It is subject to hurricane winds and salt water and therefore has extreme corrosion and operational issues. During an inspection, the counterweight-to-span link bushings were found to be broken and falling out of the bearing hub. BDI was subcontracted by HNTB to measure force and moment in the truss link member and evaluate the span balance and operational friction. Operational test results showed high levels of friction and asymmetry in both the friction and lifting torque. Tests were initially performed to identify operational issues and again after bushings were replaced and drive torque imbalance conditions were addressed. BDI's instrumentation and data analysis was essential to identifying and solving the operational problems. The primary relevance of this project is identification and quantification of operational performance of bascule bridges..
07/19 – 01/20	Counterweight Balance and Friction Assessment of the St. Claude Bridge (LADOTD) in New Orleans, LA – BDI performed a counterweight Balance and friction assessment of the St. Claude Bridge to assist LADOTD to bring their bridge into lifting specifications and to determine the friction in each member during lifts. Mr. Fall installed all gages on the shafts and some gages on the steel members of the bridge, performed all testing, and helped report on these findings to help LADOTD balance the counterweight in the bridge and analyze the friction in each member. Mr. Fall was a team member responsible for field instrumentation and operational testing.
04/21 – 05/21	LA 324 over Bayou Teche – As part of Gresham Smith's advanced inspection team, BDI was contracted to perform short-term testing on the pivot pier of this swing bridge. During initial inspection, the pivot pier was observed to significantly rotate/translate during the opening operation. BDI's testing was performed as part of an emergency response to the inspection findings and consisted of taking laser displacement measurements of the pier during operational swings. Through this testing, BDI verified that up to 6" of movement was occurring at the end of the opening operation and provided short- and long-term recommendations. Mr. Fall was a team member responsible for team coordination, field instrumentation and testing, data processing and review, and reporting.

	Firm	Bridge Diagnostics, Inc.			
	Name	Charles Young, PE		Years of Relevant Experience with this Employer	7
	Title	Bridge Deck NDT		Years of Relevant Experience with Other Employer(s)	6
Degree(s)/Years/Specialization		MS / 2017 / Civil Engineering BS / 2012 / Civil Engineering			
Active Registration Number/State/Expiration Date		PE.0042773 / LA / 03/31/2027 Other relevant licenses: CO, VA			
Year Registered	2018	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Bridge Deck NDT. Charles has 13 years of experience in the fields of nondestructive evaluation and testing (NDE/NDT), structural monitoring, and inspection/evaluation of civil infrastructure. Mr. Young is responsible for program management, project management, analysis, and field services related to inspection and NDE/NDT of civil infrastructure. Mr. Young is certified ASNT Level II GPR and IR Inspector, SPRAT Level I certified, is a registered Part 107 UAV Pilot, and holds multiple certifications from NHI including FHWA-NHI-130055 Safety Inspection of In-Service Bridges (2014), FHWA-NHI-130053 Bridge Inspection Refresher Training (2021), and FHWA-NHI-420018 Instructor Development Course (2022). He is a registered Professional Engineer in multiple states including Louisiana.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
12/22-Ongoing	IDIQ Contract for Nondestructive Evaluation of Structures Statewide (DOTD Contract No. 4400025002) Mr. Young is the Project Manager for statewide NDE of structures for DOTD under this contract. Scope items include testing of bridge decks, concrete substructures, steel elements such as welds and pin and hanger assemblies, unknown foundations, tunnels, culverts, and other highway transportation infrastructure. Mr. Young assists DOTD and the project team with successfully implementing NDE and inspection technologies for application and best methods for analysis and reporting of findings into DOTD's AssetWise.				
05/23-Ongoing	Twin Spans and Six Mile Bridge Inspection and NDE - The objective of this project is to perform a comprehensive inspection and NDE of the reinforced concrete bridge decks of the Twin Spans and Six Mile Bridges in Louisiana. Also included are supplemental inspection access techniques including unmanned aerial systems (UAS). Nondestructive evaluation includes a multi-technology bridge deck assessment including Deck Acoustic Response, Ground Penetrating Radar, Infrared Thermography, and High-Resolution Imagery. Mr. Young acted as the Project Manager. This work is being performed under LADOTD contract 4400025002.				
01/19-12/22	IDIQ Contract for Nondestructive Evaluation of Structures Statewide (DOTD Contract No. 4400015262) Mr. Young is the Project Manager for statewide NDE of structures for DOTD under this contract. Scope items include testing of bridge decks, concrete substructures, steel elements such as welds and pin and hanger assemblies, unknown foundations, tunnels, culverts, and other highway transportation infrastructure. Mr. Young assists DOTD and the project team with successfully implementing NDE and inspection technologies for application and best methods for analysis and reporting of findings into DOTD's AssetWise.				

07/21-10/22	I-10 Over Atchafalaya Basin Inspection and NDE - The objective of this project is to perform an NHI routine and fracture critical (NSTM) inspection of the bridge carrying I-10 over the Atchafalaya Basin between New Baton Rouge and Lafayette along with targeted NDE techniques at various critical portions of the structure. Also included are supplemental inspection access techniques including unmanned aerial systems (UAS). Nondestructive evaluation includes a multi-technology bridge deck assessment including Deck Acoustic Response, Ground Penetrating Radar, Infrared Thermography, and High-Resolution Imagery. Mr. Young acted as the Project Manager. This work was performed under LADOTD contract 4400015262.
10/20-09/22	Bonnet Carre Spillway Inspection and Nondestructive Evaluation, LA – This project involved an NHI routine and fracture critical (NSTM) inspection of the Bonnet Carre Spillway Bridge and targeted NDE techniques at various critical portions of the structure. Two cycles of Routine and NSTM inspections were conducted for this structure. This work was performed under an IDIQ Contract for Non-destructive Evaluation of Structures for DOTD. Also included were supplemental inspection access techniques including unmanned aerial systems (UAS). Nondestructive evaluation includes a multi-technology bridge deck assessment including Deck Acoustic Response, Ground Penetrating Radar, Infrared Thermography, and High-Resolution Imagery. Mr. Young acted as the Project Manager. This work was performed under LADOTD contract 4400015262.
08/19-07/20	NDE of City Park Lake Bridge LA – Mr. Young was the project manager for the NDE of the City Park Lake Bridge in Baton Rouge, LA. This project included a routine inspection of the structure, along with NDE technologies including ground penetrating radar (GPR), deck acoustic response (DAR), infrared thermography (IR), and high-resolution video (HRV). The remote inspection was performed on the substructure utilizing visual inspection and IR. This work was performed under LADOTD contract 4400015262.

	Firm	Conсор North America, Inc.			
	Name	Michael Dukes, PE		Years of Relevant Experience with this Employer	16
	Title	Vice President		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/LA/03.31.27			
Year Registered	2016	Discipline	Professional Engineer /Civil		
Contract Role(s)/Brief Description of Responsibilities		Underwater/Acoustical. Michael Dukes is a professional engineer with 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. Courses: NHI 130055, Safety Inspection of In-Service Bridges – 10/16/2015; NHI 130053, Bridge Inspection Refresher Training – 03/12/2; NHI 130091, Underwater Bridge Inspection – 01/30/2015; NHI 130078, Fracture Critical Inspection Techniques for Steel Bridges – 02/18/2022; NHI 135046, Stream Stability and Scour at Highway Bridges – 09/15/2022; NHI 135048, Countermeasure Design for Bridge Scour and Stream Instability – 05/11/2023; NHI 135085, POA for Scour Critical Bridges – 10/15/2020; NHI 420018, Instructor Development Training – 03/21/2014. Certifications: Surface-Supplied Air Diving Supervisor – ADCI #58165; FHWA-certified NHI Bridge Instructor (2015); NHI 130053, NHI 130078, NHI 130091; HYPACK Hydrographic Surveying Field to Finish Single Bean Training – 05/21/2018			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
09/24-Ongoing	4400029206: Statewide Underwater Bridge Inspections, LADOTD. Deputy Project Manager/Acoustic Imaging Lead Michael has performed underwater bridge inspections and underwater imaging for four consecutive underwater bridge inspection contracts for LADOTD. In total, Consor has performed 2,161 underwater bridge inspections in LADOTD Districts statewide. Consor's fourth consecutive contract's first task order started in 2025. 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 InspectX. CADD inspection drawings, streambed cross sections comparing previous to current soundings, repair recommendations and photo documentation are included as part of each inspection submittal.				

05/22-2/25	NHI Manual Updates, Federal Highway Administration. Contributor Michael was a contributor and author on the two key manuals that were published in February 2025. These manuals 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 received a complete overhaul. Consor worked closely with FHWA and DOT representatives to ensure that the manuals present the latest practices and innovations. The underwater bridge inspection manual was also updated to the new NBIS standards and incorporating changes that are required by SNBI.
12/23-Ongoing	FHWA/NHI 130091, Underwater Bridge Inspection, Federal Highway Administration) – Instructor. Michael is an NHI instructor currently teaching the FHWA's 4-day underwater inspection course, which provides an overview of diving operations that are useful to agency personnel responsible for managing underwater bridge inspections. Course topics that he teaches include: methods of underwater inspection, underwater material deterioration mechanisms and inspection techniques, scour inspection techniques, underwater element-level rating, and underwater bridge inspection training. Upon completion of the course, participants will be able to explain the need and benefits of inspecting the underwater portions of bridge structures; describe typical underwater defects and deterioration, and identify conditions contributing to rates of deterioration; identify the types of inspection equipment available, and the advantages and limitations of each; identify procedures for planning and performing thorough and safe underwater bridge inspections; and assign component and element-level condition ratings for underwater components in accordance with NBIS and agency requirements.
02/12-03/13	Louisiana DOTD, Contract H.005365.5: Underwater Acoustic Imaging for Bridge Inspection. Project Manager/Team Leader Michael 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.
2/24-12/24	Mississippi Department of Transportation, Underwater Bridge Inspections. Project Manager. Michael was the project manager for this fifth cycle of underwater inspections for Mississippi DOT. The team 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	Conсор North America, Inc.			
	Name	Heath Pope, PE		Years of Relevant Experience with this Employer	8
	Title	Underwater Inspections		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/09.30.26			
Year Registered	2012	Discipline	Professional Engineer/Civil		
Contract Role(s)/Brief Description of Responsibilities		Underwater Bridge Inspection Team Leader. Heath provides more than 30 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. Courses: NHI 130055, Safety Inspection of In-Service Bridges – 02/04/2005; NHI 130053, Bridge Inspection Refresher Training – 09/01/2022; NHI 130078, Fracture Critical Inspection Techniques for Steel Bridges – 10/27/2023; NHI 130091, Underwater Bridge Inspection – 09/01/2007; NHI 130092, Load and Resistance Factor Rating of Highway Bridges – 09/28/2023; NHI 135047, Stream Stability & Scour Highway Bridges for Bridge Inspection – 02/21/2007. Certifications: Surface-supplied Air Diving Supervisor – Association of Diving Contractors International (ADCI) #24803; FHWA-certified NHI Bridge Inspection Instructor (2024): NHI 130078, NHI 130091			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
03/24-Ongoing	FHWA/NHI 130091, Underwater Bridge Inspection, Federal Highway Administration – Instructor. Heath is an NHI instructor currently teaching FHWA's 4-day underwater inspection course. Course topics that he teaches include: bridge types and loadings, methods of underwater inspection, diving inspection intensity levels, tactile inspection methods, inspection planning and hazard analysis, material properties, inspection techniques and underwater material deterioration mechanisms, scour behavior and inspection techniques, NBI and element level data documentation, and element-level rating. Heath is also one of the principal authors of the update to the NHI Underwater Bridge Inspection course which is currently in progress.				

03/24-Ongoing	FHWA/NHI 130091B, Underwater Bridge Repair, Rehabilitation, and Countermeasures, Federal Highway Administration – Instructor. Heath is an NHI instructor currently teaching FHWA's 2-day underwater inspection course. Course topics that he teaches include: Underwater repair planning, underwater construction considerations, equipment for underwater repair, pile repairs, local scour repairs, underwater contracting and construction inspection.
08/21-Ongoing	Underwater Inspection, Mississippi Office of State Aid Road Construction (OSARC) – Project Manager. As project manager, Heath is leading the team in performing Level I, II, and III underwater inspections for OSARC. The inspections include 113 bridges throughout the state from the waterline to the mudline. Bridges ranged in size from small creek crossings to large movable bridges comprised of concrete, steel, prestressed concrete, and timber substructures. Each inspection includes soundings and documentation of structural member deterioration and observed scour. A report is prepared for each bridge that includes inspection findings, recommendations for repairs, NBIS condition ratings, photographs, and CAD inspection drawings.
10/22-Ongoing	Statewide Bridge Inspection and Evaluation Engineering Services, South Carolina Department of Transportation – QC Reviewer/Team Leader. Heath has performed underwater inspections under multiple consecutive contracts dating back to 2017. In more recent contracts he has performed QC reviews to verify inspectors are following the QA/QC process and to check consistency and correctness of the inspection deliverables. In total, Consor has conducted 1,000+ NBIS element-level underwater bridge inspections statewide. Each inspection includes a report documenting structural deficiencies, scour conditions, and channel conditions, as well as making pertinent repair and maintenance recommendations to ensure the prolonged safe use of the structure by the traveling public. Bridges inspected under these contracts range in size and complexity from culverts and pile bents crossing ditches and creeks to post-tensioned segmental box girders and cable-stay bridges crossing navigable waterways in close proximity to a major port. In addition to diving inspections, we have also provided 2D and 3D acoustic imaging services to fully document scour conditions affecting coastal bridges; acoustic imaging of I-526 over the Wando River won the ACEC-SC Engineering Excellence Award. Emergency inspections, performed during and after flood events, have also been provided to assist in maintaining and reopening vital routes for emergency and commercial traffic.

	Firm	Conсор North America, Inc.			
	Name	Sebastien Templeton, PE		Years of Relevant Experience with this Employer	9
	Title	Senior Project Manager/Dive Supervisor		Years of Relevant Experience with Other Employer(s)	14
Degree(s)/Years/Specialization		BS/2004/Mechanical Engineering			
Active Registration Number/State/Expiration Date		PE.47632/Louisiana/09.30.2027			
Year Registered	2003	Discipline	Professional Engineer /Civil		
Contract Role(s)/Brief Description of Responsibilities		Underwater Inspections. Sebastien Templeton has 22 years of experience managing and leading bridge and waterfront inspection and repair/ rehabilitation design projects. Specific expertise includes structural condition assessment, corrosion assessment and mitigation, cathodic protection evaluation and design, and construction management. He routinely performs above-water and underwater condition assessments and repair design inspections. His expertise includes a variety of structures, including bridges, piers, wharves, relieving platforms, dry docks, quay walls, bulkheads, caissons, pipelines, and fender and mooring systems. Typical clients include the US Navy, US Coast Guard, major port authorities, oil and gas companies, and several other federal agencies, state DOTs, and municipal and private entities throughout the US and abroad. Courses: NHI 130055, Safety Inspection of In-Service Bridges – 04/19/2013; NHI 130053, Bridge Inspection Refresher Training – 03/21/2024; NHI 130091, Underwater Bridge Inspection – 07/22/2009; NHI 130078, Fracture Critical Inspection Techniques for Steel Bridges – 01/21/2022 Certifications: Surface-supplied Air Diving Supervisor – ADCI #48653; SPRAT Level I Rope Access Engineer – #2200134			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
08/24-Ongoing	4400029206: Statewide Underwater Bridge Inspections, LADOTD – Team Leader. Sebastien has performed underwater bridge inspections for four consecutive underwater bridge inspection contracts for LADOTD. In total, Conсор has performed 2,161 underwater bridge inspections in LADOTD Districts statewide. Conсор's fourth consecutive contract's first task order started in 2025. 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 InspectX. CADD inspection drawings, streambed cross sections comparing previous to current soundings, repair recommendations and photo documentation are included as part of each inspection submittal.				

08/21-Ongoing	Underwater Inspection, Mississippi Office of State Aid Road Construction (OSARC) – Team Leader. As team leader, Sebastien is performing Level I, II, and III underwater inspections for OSARC. The inspections include 113 bridges throughout the state from the waterline to the mudline. Bridges ranged in size from small creek crossings to large movable bridges comprised of concrete, steel, prestressed concrete, and timber substructures. Each inspection includes soundings and documentation of structural member deterioration and observed scour. A report was prepared for each bridge that includes inspection findings, recommendations for repairs, NBIS condition ratings, photographs, and CAD drawings. In 2025, Consor was selected for another contract with Mississippi OSARC.
10/22-12/25	Statewide Bridge Inspection and Evaluation Engineering Services, South Carolina Department of Transportation – Team Leader. Sebastien has performed underwaters inspections under multiple consecutive contracts dating back to 2017. In total, Consor has conducted 1,000+ NBIS element-level underwater bridge inspections statewide. Each inspection includes a report documenting structural deficiencies, scour conditions, and channel conditions, as well as making pertinent repair and maintenance recommendations to ensure the prolonged safe use of the structure by the traveling public. Bridges inspected under these contracts range in size and complexity from culverts and pile bents crossing ditches and creeks to post-tensioned segmental box girders and cable-stay bridges crossing navigable waterways in close proximity to a major port. In addition to diving inspections, we have also provided 2D and 3D acoustic imaging services to fully document scour conditions affecting coastal bridges; acoustic imaging of I-526 over the Wando River won the ACEC-SC Engineering Excellence Award. Emergency inspections, performed during and after flood events, have also been provided to assist in maintaining and reopening vital routes for emergency and commercial traffic.
06/19-03/20	IDIQ Contract for Ocean Engineering Services Nationwide: US Coast Guard IDIQ Contract for Ocean Engineering Services Nationwide, CEU Miami, FY19 and FY20 Major ATON Inspections, Various 7th and 8th Districts Offshore and Inland Sites (USVI, PR, FL, SC, TX, and LA) – Project Manager/Team Leader. As project manager, Sebastien performed above and underwater structural inspections of 35 major aid-to-navigation (ATON) structures located throughout the southeastern United States, Puerto Rico, and the U.S. Virgin Islands. The purpose of the inspection was to detect and report conditions requiring maintenance or repair before such conditions become safety, structural, or major maintenance problems for servicing Coast Guard personnel. They were performed to assess physical integrity and ensure each ATON meets their functional requirements; identify the need for corrective action before advanced deterioration necessitates major repairs; and initiate action for repair or replacement. Additionally, OSHA-compliance audits were performed to verify compliance with current federal regulations and identify the need for modifications regarding ladders, fall protection, and other safety features. Project deliverables include comprehensive condition assessment reports with repair recommendations, associated construction repair estimates, remaining service life estimates, CAD figures, and photographs.

	Firm	Forte & Tablada, Inc.			
	Name	Brent Campbell		Years of Relevant Experience with this Employer	13
	Title	3D Laser Scanning		Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization		BS/2013/Construction Management			
Active Registration Number/State/Expiration Date		3956975/N/A/10.29.2027			
Year Registered	N/A	Discipline	FFA Certified Remote Pilot		
Contract Role(s)/Brief Description of Responsibilities		Advanced Measurements Group Lead . Brent will provide supervision over Task Managers of all LiDAR, Photogrammetric, and Hydrographic tasks performed on task orders. He is an expert with over a decade of experience using terrestrial and mobile/aerial LiDAR systems and accompanying post-processing and extraction software. Widespread experience managing and overseeing execution of projects involving advanced data capture techniques including LiDAR, Photogrammetry, Multibeam Bathymetry, and Aerial Imagery.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
02/25- 06/25	Contract 4400021974- Task Order 13- H.016278- US 167: Median Improvements- Vermilion Parish, LA- Advanced Measurements Group Leader to provide topographic and Mobile LiDAR surveying for a maiden improvements of the US 167. The survey included over 2 miles along a divided 4 lane highway in a rural area.				
01/16-Ongoing	H.004273.5 – I-49 Connector – LADOTD – Lafayette Parish, LA- LiDAR technician and Group Leader responsible for providing terrestrial LiDAR survey of roadway features for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada, Inc. completed terrestrial LiDAR scanning services for much of the congested corridor as a means to obtaining topographic data without endangering surveyors.				
01/23- Ongoing	Mid-Barataria Sediment Diversion Survey QC Program CPRA Project No. BA-153, Belle Chasse, Port Sulphur, Louisiana – Advanced Group Leader responsible for management and QAQC of performing Aerial LiDAR and Photogrammetry for approximately 750 acres that are flown bi-weekly for the purpose of documenting the progress of construction as well as serving as a QAQC tool for the project team.				
05/21-12/22	Contracts 4400010587- Task Order 18; 4400015237- Task Order 1; 4400021974- Task Orders 1, 3, and 4- H.003931- Calcasieu River Bridge (HBI) – Calcasieu Parish, LA- Advanced Group Leader responsible for Mobile LiDAR acquisition and extraction, as well as Hydrographic Survey acquisition and extraction efforts. project is in a high-traffic industrial area along I-210 and is approximately 7 miles long. Forte and Tablada completed Mobile LiDAR scanning services for much of the corridor as a means of obtaining topographic data without endangering surveyors. The Survey also included Multibeam Hydrographic survey of Lake Charles, and Terrestrial LiDAR scanning of bridge substructures.				

03/21 – 12/21	MOVEBR (20-EN-HC-0003) Florida Blvd. Corridor Enhancement – East Baton Rouge Parish, LA – Mobile LiDAR Tech responsible for assisting with capturing mobile data. Responsible for processing and extracting the Mobile LiDAR data. This project is in a dense urban area and is approximately 4 miles long. Forte and Tablada completed mobile LiDAR services for much of the congested corridor as a means of obtaining topographic data without endangering surveyors.
11/19-12/20	Contract 4400010587- Task Orders 12, 14, and 15- H.012083- Calcasieu River Bridge INT Repairs, Calcasieu Parish, LA- Advanced Group Leader responsible for the management and QAQC of data and deliverables for the terrestrial laser scans underneath the bridge for 10 spans on the East and West side, on top the deck to capture the superstructure, as well as from the water below to capture the sub structure. In addition to the terrestrial scans, performed mobile Lidar for future planning.
10/19-10/20	Inspection of Metal Culverts - Statewide, LA – Advanced Group Leader responsible for the management and QAQC for inspections and data acquisition for approximately 230 culvert locations statewide. Culvert measurements were acquired with a mixture of 3-D laser scanning, sonar, and LiDAR.
06/19-09/19	Contract 4400010587- Task Orders 11 and 13- H.000303.6- Danziger Bridge Repair, Orleans Parish, LA- Project Manager responsible for Topographic and Monitoring survey, and terrestrial LiDAR scanning of Danziger bridge. This survey was necessary due to damage of joints, deck, and girder ends of the fixed spans on both sides of the bridge.
01/18-06/19	Contract 4400012323- H.004100- I-10: LA 415 to Essen Lane to I-10 and I-12- LADOTD- East and West Baton Rouge Parishes- Project Manager responsible for scanning efforts for topographic survey of approximately 5 miles of roadway along I-10 and I-12 between LSU lakes and Essen Lane. This Survey was part of a larger project that extended West to LA 415 and included a team of 4 Survey firms to complete the work on schedule.
10/18-05/19	Contract 4400010587- Task Orders 2, 3, 4, 5, and 10- H.012343 Sunshine Bridge Repair – St. James Parish, LA- Project Manager responsible for working with the design team to formulate a practical solution for attaining advanced measurements that were compatible with traditional measuring practices which were required for the structural analysis and repair design for the bridge. Additionally, assisted in scanning for incremental bridge movement as well as monitoring bridge movement as LADOTD jacked on members to place new beams using Faro Scene and MicroStation.
05/17-10/18	Contract 4400009387- Task Orders 2 and 5- H.004791.5 Belle Chasse Bridge and Tunnel (HBI)- Plaquemines Parish, LA - Project Manager overseeing Terrestrial LiDAR and Hydrographic Survey efforts for comprehensive topographic surveying for the Belle Chase Bridge and Tunnel Replacement project for LADOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway, bridge and tunnel features, and multi-beam hydrographic surveying of the Algiers Canal and exterior features of the existing tunnel.

	Firm	Forte & Tablada, Inc.			
	Name	Joffrey Easley, PE, MS		Years of Relevant Experience with this Employer	18
	Title	Bridge Design		Years of Relevant Experience with Other Employer(s)	3
Degree(s)/Years/Specialization		BS/2000/Civil Engineering MS/2003/ Civil Engineering			
Active Registration Number/State/Expiration Date		PE.31542/LA/03.31.2027			
Year Registered	2015	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Bridge Design -Bridge Engineering Services (Fixed Design/Construction Engineering Support); Bridge Engineering Services (As-Designed, As- Built & Condition Ratings)			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
09/22-Ongoing	LA DOTD Retainer Contract for Bridge Load Rating Services, Statewide, Louisiana - Project Manager, Load Rating Engineer, and Team Leader for two Task Orders under a load rating retainer contract to perform a load rating for numerous bridges that have experienced a condition drop due to deterioration. The load ratings are being performed in accordance with LADOTD BDEM.96 – Publication of Load Rating, Posting and Strengthening Standard Operating Procedure (SOP). Task Order 1 is for the load rating of ninety-five (95) on-system slab span bridges that have experienced a condition drop since the last load rating. Includes inspection (when required) and, if a load posting if required, determination of repair/rehabilitation options to improve/remove the load posting. (09/22 – 12/24) Task Order 6 is for the load rating of approximately sixty-five (65) on-system girder bridges that have experienced a condition drop since the last load rating. Bridges vary from small bridges built using LADOTD Standard Plans to complex urban bridges several-thousand feet long. Includes inspection (when required) and, if a load posting if required, determination of repair/rehabilitation options to improve/remove the load posting.				
03/23-05/25	E Lewis St Bridge Upgrades, Lafayette, LA - Project Manager for a multi-phase project involving the inspection, load rating, and development of rehabilitation plans for a steel girder and slab span bridge that serves the University of Louisiana at Lafayette. Load rating utilized material testing and a 3-D laser scan to determine appropriate properties to consider for the load rating, which resulted in the removal of a 3-ton posting requirement. To improve the long-term performance of the bridge, rehabilitation plans are being developed, including strengthening of the steel girders, concrete spall and cracking repairs, a urethane-epoxy overlay of the bridge deck, and sidewalk repairs.				
02/22-Ongoing	Ascension Parish Load Ratings of Parish Owned Bridges, Ascension Parish, LA - Project Manager and Certified Bridge Inspector for a General Services Agreement to provide load ratings of Parish owned bridges on an as-needed basis. Approximately fifteen (15) Task Orders have been to inspect, perform a condition assessment, and provide a load rating report in accordance with LADOTD requirements for off-system bridges. Other Task Orders have been to inspect, determine rehabilitation details, and, when requested, develop construction plans for the rehabilitation of bridges with Critical Findings based on bi-annual inspections by LADOTD.				

03/18-05/22	LADOTD Retainer Contract for Off-System Bridge Load Rating, Statewide, LA -Project Manager, Load Rating Engineer, and Team Leader for a retainer contract that includes multiple Task Orders to inspect and load rate off-system bridges and culverts across the state. Task Order 1 – Inspection and load rating of 12 complex off-system bridges, including lift spans, swing spans, bascule spans, ferry landings, and truss bridges. (01/18 – 02/19) Task Order 2 – Inspection and load rating of approximately 200 off-system bridges, consisting primarily of slab spans. (2019 – 2020) Task Order 2b and 3 – Inspection and load rating of approximately 200 culverts that meet the requirements to be considered a bridge across the state. Task included the development of unique inspection techniques utilizing 3-D laser scanning and sonar for the inspection of these structures. (10/19 – 10/20) Task Order 4 – Inspection and load rating of 340 off-system bridges, consisting primarily of slab spans, but also including concrete and steel girder spans, included the Linwood Avenue bridge over multiple railroad tracks in Shreveport, LA. The bridge is near the I-49 / I-20 interchange and is composed of steel girders, steel bent caps, and steel column assemblies. Because existing plans were not available, 3-D laser scanning was utilized to capture complex geometry and member sizes that were then utilized in the load rating and in the development of load rating plans. The inspection also included the use of an ultrasonic thickness gage to verify member thickness, as well as detailed measurements to determine section loss at the steel column bases. (04/19 – 05/22) Task Order 5 – Project Manager for the instrumentation and load testing of several slab span bridges and metal culverts with our subconsultant, BDI. These structures were load tested after the original load ratings resulted in a load posting (or in some cases a closure) using conventional load rating procedures. Based on the results of the load testing, the load posting requirement was removed on all bridges and significantly increased or removed on all culverts. The results of the load testing were subsequently used to load rate and remove the posting requirements on several additional similar bridges. (10/21 – 05/22)
02/22-12/23	Livingston Parish Contract for Bridge Engineering Services, Livingston Parish, LA -Project Manager and Certified Bridge Inspector for a General Services Agreement to provide bridge engineering services for the Parish off-system bridge inventory. Task Orders 1, 2, and 3 are for the inspection, condition assessment, load rating, and submittal of a Bridge Evaluation Report for several single-span timber bridges. Task Order 4 is to provide consultation related to the selection of bridges to be replaced under the IIJA off-system bridge replacement program. Task Order 5 is for the load rating of several bridges that require a re-rating following a Condition Rating drop or additional deterioration since the last inspection. Task Order 6 is for the inspection and development of repair details for a slab span bridge to address decay of the timber bent caps and piles.
10/20 – 02/21	I-10 Permit Vehicle Load Rating, Orleans Parish, LA - Project Manager for a Permit Load Rating of multiple existing bridges on I-10 near Lake Pontchartrain constructed of steel girder spans and concrete pile bents. Worked with the Contractor to develop requirements to allow for the crossing of cranes used during the construction of replacement bridges.
05/20-07/20	St. James Parish Off-System Bridge Load Rating, St. James Parish, LA Inspection and load rating of a slab span bridge to comply with FHWA Metric 13, which requires a load rating of all Off-System bridges.
06/16-04/20	St. Tammany Parish Off-System Bridge Load Ratings, St. Tammany Parish, LA -Project Manager to collect all available bridge files from all available resources, including LADOTD and Parish records, for numerous slab span, girder, and railcar bridges in St. Tammany Parish and perform inspections and load ratings for the bridges.
11/16-10/20	Livingston Parish Off-System Bridge Load Ratings, Livingston Parish, LA - Inspection and load rating of numerous existing slab span bridges and culverts so that Livingston Parish would follow FHWA Metric 13, which requires all Off-System bridges to be load rated.

	Firm	Forte & Tablada, Inc.			
	Name	Adrian Boyd Holmes, PE		Years of Relevant Experience with this Employer	3
	Title	Bridge Rehabilitation/LRFR Load Ratings		Years of Relevant Experience with Other Employer(s)	30
Degree(s)/Years/Specialization		BSCE/1992/Civil Engineering			
Active Registration Number/State/Expiration Date		PE 27452/LA/09/30/2027			
Year Registered	1997	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Bridge Rehabilitation			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
07/23-Ongoing	E. Butcher Switch Road Bridge Over Dan Debaillon Coulee, Lafayette Parish, LA – Responsibilities included project management and QC reviews for the performance of the topographic survey, preliminary and final plans, hydraulic report, environmental clearance, ROW Mapping and acquisitions, and utility relocations. LCG.Project No. (PW #1635) One (1) Bridge.				
07/23-Ongoing	Off-System Highway Bridge Program, Morehouse Parish, LA - Bonne Idee Road Bridge over Bayou Bonne Idee – Responsibilities included project management and QC reviews for the performance of the topographic survey, preliminary plans, hydraulic report, and environmental clearance. S.P.#(H.014994) One (1) Bridge.				
01/23-Ongoing	Wildwood Drive Bridge Over Beaver Creek, Livingston Parish, LA – Responsibilities included project management and QC reviews for the performance of the topographic survey, preliminary and final plans, hydraulic report, environmental clearance, ROW Mapping and acquisition, utility relocations, bidding, and Construction Administration. One (1) Bridge.				
04/23-Ongoing	Off-System Highway Bridge Program, East Baton Rouge Parish, LA - South Tiger Bend Road Bridge (Site 1); East Achord Road Bridge (Site 2) - Responsibilities included project management and QC reviews for the performance of the topographic survey, preliminary plans, hydraulic reports, and environmental clearance. S.P.#(H.014990) Two (2) Bridges.				
02/23-Ongoing	Off-System Highway Bridge Program, East Baton Rouge Parish, LA - Neff Lane Bridge over Wind Creek , – Responsibilities included project management and QC reviews for the performance of the topographic survey, preliminary plans, hydraulic report, and environmental clearance. S.P.#(H.014989) One (1) Bridge.				
01/23-Ongoing	Off-System Highway Bridge Program, Caddo Parish, LA - Hosston River Road Bridge over Kelly Bayou - Responsibilities included project management and QC reviews for the performance of the topographic survey, preliminary plans, hydraulic report, and environmental clearance. S.P.#(H.014981) One (1) Bridge.				
07/22-Ongoing	Lock No. 3 Bridge Replacement, St. Tammany Parish, LA - Responsibilities included project management and QC reviews for the performance of the topographic survey, preliminary plans, hydraulic report, environmental clearance, and utility relocations. S.P.#(H.015406) One (1) Bridge.				
07/22-Ongoing	Lod Stafford Bridge Over Colyell Creek, Livingston Parish, LA - Responsibilities included project management and QC reviews for the performance of the topographic survey, preliminary and final plans, hydraulic report, environmental clearance, ROW Mapping and acquisitions, and utility relocations. (FEMA PW 1049) One (1) Bridge.				

07/22-Ongoing	Dawson Creek Bridges at Hundred Oaks Avenue and Broussard Street, East Baton Rouge Parish, LA - Responsibilities included project management and QC reviews for the performance of the topographic survey, preliminary and final plans, hydraulic reports, environmental clearance, ROW Mapping, and utility relocations. (EBR C.P. Project No. 21-DR-LA-0095) (FEMA-4277-DR-LA, Project #0056) Two (2) Bridges.
07/22-Ongoing	Urban Systems Program, Livingston Parish, LA - West Colyell Creek Bridge (On Burgess Road) - Responsibilities included project management and QC reviews for the performance of the topographic survey, preliminary and final plans, hydraulic report, environmental clearance, ROW Mapping, and utility relocations. S.P.#(H.015355) One (1) Bridge.
11/20-Ongoing	Off-System Highway Bridge Program, East Baton Rouge Parish, LA - Gurney Road Bridge Over Drainage Canal (Site 1) (Recall No. 800447); Gurney Road Bridge Over Drainage Bayou (Site 2) (Recall No. 800449) - Responsibilities included project management and design for the topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.014318) Two (2) Bridges.
06/15-03/18	Off-System Highway Bridge Program, Avoyelles Parish, LA - Faith Baptist Road Bridge Over Un-Named Ditch (Site 1); Bill Belt Road Bridge Over Un-Named Ditch (Site 2) - Responsibilities included project management and design for the topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.011522) Two (2) Bridges.
01/14-12/17	Off-System Highway Bridge Program, East Feliciana Parish, LA - Bank Street Bridge Over Lewis Creek (Site 1); Singletary St. Bridge Over Redwood Creek (Site 2) - Responsibilities included project management and design for the topographic survey, preliminary and final plans, and hydraulic reports. S.P.#(H.010562) Two (2) Bridges.
04/12-12/18	EBRP DPW Bridge Projects (2011), East Baton Rouge Parish, LA - East Garfield Bridge Over Corporation Canal; East Chimes Bridge Over Corporation Canal; Taylor Street Bridge Over Corporation Canal - Responsibilities included project management and design for the topographic survey, preliminary and final plans, and hydraulic reports. (EBR C.P. Project No. 11-BR-LA-0037-39) Three (3) Bridges.
03/09-11/09	Off-System Highway Bridge Program, East Feliciana Parish, LA - Cheathams Run/Devalcourt Road Bridge - Responsibilities included project management and design for the topographic survey, preliminary and final plans, and hydraulic reports. S.P.#700-19-0110 One (1) Bridge.
02/09-06/10	EBRP DPW Bridge Projects (2008), East Baton Rouge Parish, LA - Monterrey Boulevard Bridges Over Jones Creek; South Campus Drive Bridge Over Corporation Canal - Responsibilities included project management and design for the topographic survey, preliminary and final plans, and hydraulic reports. (EBR C.P. Project No. 08-BR-PT-0026) Two (2) Bridges.

	Firm	Forte & Tablada, Inc.			
	Name	Trenton Iglehart		Years of Relevant Experience with this Employer	2.5
	Title	3D Laser Scanning		Years of Relevant Experience with Other Employer(s)	27
Degree(s)/Years/Specialization		N/A			
Active Registration Number/State/Expiration Date		4227009/N/A /07.14.2027			
Year Registered	N/A	Discipline	FAA Certified Remote Pilot		
Contract Role(s)/Brief Description of Responsibilities		3D Laser Scanning Trenton will serve as Hydrographic Task Manager during this contract, and in that role, he will manage all hydrographic field and office work performed on task orders. He will also lead the effort on estimating Hydrographic work for task orders and producing completed Hydrographic in LADOTD format, so that it can be seamlessly integrated into the Topographic files. Mr. Iglehart will be responsible for all QA/QC efforts throughout the process of each Hydrographic task, leading to the final review by the Surveyor. Mr. Iglehart has 12 years of experience on on–system LADOTD Topographic and ROW Surveys, and 27 years of Hydrographic Survey experience. He has performed CAD and management tasks on over 224 task orders under 22 separate Topographic & ROW IDIQ Contracts with LADOTD which included 106 Bridge Surveys.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
02/25- 03/25	Myrtle Grove QA Investigation and Post Dredge Surveys, Plaquemines Parish, LA – Hydrographic Task Manager for project consisting of a Singlebeam Hydrographic investigative QA survey of 5 miles of canals and a full post dredge survey of 250 cross sections over 5 miles of canals in Plaquemines Parish for Plaquemines Parish Government.				
10/24-Ongoing	LADOTD Underwater Bridge Inspections (4400019121)- H.009730 Wax Lake Outlet US190 Bridge – Hydrographic Task Manager for project consisting of a Multibeam Hydrographic survey for Underwater Bridge Inspection.				
09/24-03/25	Amite River Sediment Removal - Hydrographic Task Manager for this project consisting of 34 miles of Multibeam Hydrographic Surveys for the Amite River from Port Vincent to Lake Maurepas. This survey was performed for the purpose of sediment stacking analysis and locating potential dredge sites.				
11/24-04/25	CPRA MID Barataria Access Dredge Route - Hydrographic Task Manager for this project consisting of 9 miles of Singlebeam Hydrographic Surveys for pre and post dredge QA for design compliance and volumetrics.				
06/24-09/24	Amite River Basin Commission Master Plan - Hydrographic and Topographic Task Manager for this project consisting of strategic Singlebeam Hydrographic Cross sections over 115 miles of the Amite River and Multibeam Hydrographic survey of the Amite River Weir for the Master Hydraulic model of the River Basin. Tasks also included the compiling of historic surveys dating back to 1980 for analysis.				

03/24-04/24	H.015935 LA Hwy 47 Over Bayou Bienvenue- Emergency Bridge Replacement, St. Bernard/Orleans Parish, LA- Hydrographic Task Manager to provide topographic surveying for an emergency bridge replacement of the LA 47 bridge over Bayou Bienvenue. In addition to Conventional Topographic survey, Hydrographic survey of the Bayou was included. The bridge deck features and substructures were scanned through terrestrial LiDAR methods. Due to the emergency status of the project, the project was completed in a condensed timeline.
07/23-12/23	La46 Over Bayou La Loutre - Recall No.002650 (Yscloskey Bridge Investigation Survey), St. Bernard Parish, LA - Hydrographic Task Manager for field data collection and processing for all Hydrographic survey data. This project consisted of Topographic, Monitoring and Multibeam Hydrographic surveys for the purposes of engineering and inspection.
07/23-09/23	H.015047 Three Mile Lake Flood Reduction– Senior CAD Technician/Hydrographic Task Manager for field data collection and processing for all Hydrographic survey data. Field data processing and drafting for Topographic Surveys. This project consisted of Bathymetric cross sections, the survey of the weir and 3d terrestrial laser scans of 4 bridges surrounding 3 Mile Lake.
06/23-08/23	LADOTD Underwater Acoustic Imaging - LA 14 Over Delcambre Canal Hydrographic Survey, Iberia Parish, LA – Technician for area around the LA-14 Bridge over Delcambre Canal. The work included typical cross-sections, and water bottom features below waterline were collected using multi-beam and single beam sonar equipment. Terrestrial LiDAR was used to capture the above water surface.
09/22-12/22	LADOTD IDIQ for Hydrographic Survey (4400019715) (performed as an employee at NTB Associates) - Survey Technician for hydrographic survey task orders on the Mississippi River (I-10 at Baton Rouge, Sunshine, Gramercy, Huey Long, and Crescent City Connection), Atchafalaya River (Krotz Springs EB and WB), Pearl River, and Pass Manchac at I-55.
07/17-07/22	H.010885 LA 91 Bayou Plaquemine Brule Bridge Replacement (4400010586), Acadia Parish, LA– Senior CAD Technician/Hydrographic Task Manager for field data collection and processing for all Hydrographic survey data. Field data processing and drafting for Topographic Surveys. This project consisted of 0.25 miles of roadway/bridge topographic survey and 500' upstream & downstream bathymetric cross sections for Bridge Replacement.
10/14-07/17	IDIQ-Vicksburg & Memphis CORPS of Engineers Districts - Contract No. W912EE-14-D-0002– Various Levee Item surveys, River Revetment Hydrographic surveys and Flood Structure surveys – Senior CAD Technician/Hydrographic Technician for the review, editing, data compilation, and then submitting the project to the Vicksburg District in the required formats. Services under this contract included Topographic, Hydrographic Surveys, Structure Inspection and Evaluation I&E Monitoring Surveys, Geodetic Control Surveys, and Boundary Surveys on over 44 task orders.

	Firm	Forte & Tablada, Inc.		
	Name	Allison Schiling, PE	Years of Relevant Experience with this Employer	9
	Title	Senior Project Advisor	Years of Relevant Experience with Other Employer(s)	35
Degree(s)/Years/Specialization		BS / 1998 / Civil Engineering		
Active Registration Number/State/Expiration Date		30265 / LA / 09-30-2026		
Year Registered	2002	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Roadway. Allison has over 45 years' experience in roadway design, plan development, project management and administration. She was employed at DOTD for 35 years where she worked for 19 years in the Road Design Section in Baton Rouge and approximately 14 years in the DOTD Hammond District. In her tenure with the Hammond District, she served as the Program Delivery/Design Engineer before becoming the District Administrator. As Program Delivery/Design Engineer, she managed the District Design Office staff in the development of approximately 230 projects worth over \$500 million. She has extensive knowledge of DOTD policies and procedures and project delivery processes. Allison has served on the Louisiana Statewide Transportation Plan Regional Planning Officials Advisory Committee, CRPC Technical Advisory Committee, CRPC Technical Policy Committee and numerous DOTD policy committees including Context Sensitive Solutions, Practical Design, Median Cable Barrier, Rumble Strips, Engineering Automation and Electronic Plans Management. She has worked as a Project Manager and Senior Project Advisor at Forte and Tablada since 2017.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/24-Ongoing	Columbia Street Roundabouts at Jefferson Ave and W 30th Ave, St. Tammany Parish in Covington, LA, City of Covington. Senior Project Advisor for this project. Assisted in the development of scope of traffic study, conceptual layouts and preliminary cost estimates for the project. Assisted in the project management of the preliminary and final plans as well as right-of-way maps for these roundabouts.			
11/22-Ongoing	H.005734: LA 447 Corridor Improvements (Joe May Rd to I-12), Livingston Parish, LADOTD. Assists in the project management of this project to widen LA 447 from 2-lanes to 3-lanes from Joe May Rd to Buddy Ellis Rd and from 2-lanes to 4-lanes from Buddy Ellis Rd to I-12. The roadway design includes roundabouts at Buddy Ellis and O'Donovan Blvd and the realignment of two local roads to provide additional distance between their intersections and the I-12 EB exit roundabout.			
03/20-Ongoing	H.014675: Florida Blvd Corridor Enhancement Project (22nd St. to Airline Hwy.), EBR Parish, City of BR. F&T is the Prime Consultant for this MOVEBR Project. Project Manager for the design study, traffic study, INFRA Grant implementation as well as preliminary and final plan development to improve access for pedestrians and bicyclists through sidewalk additions/upgrades, intersection and signal improvements, the addition of pedestrian signals, and transit stop improvements. This project will also incorporate recommendations from the DOTD EBR Pedestrian and Bicycle Road Safety Assessment and the DOTD Safety Study from N. Foster Dr. to Cloud Dr. and will coordinate with the Bus Rapid Transit (BRT) Improvement Project study.			
10/18-05/19	H.000445: US 190 over UPRR and Little Teche Bayou, St. Landry Parish, LADOTD. Project Engineer. Project Engineer for this project that developed a scoping document for the replacement or rehabilitation of the EB and WB US 190 bridges over the Union Pacific Railroad (UPRR) near I-49 and over Little Teche Bayou in St. Landry Parish, LA. Based on the findings, a Bridge Evaluation Report outlining the feasibility and preliminary cost estimates for several construction phasing alternatives, as well as a recommended scope of work, was developed.			

01/18-12/18	LA 16 at Cook Rd. Roundabout, Livingston Parish in Denham Springs, LA, Livingston Parish. Review Engineer. Worked as part of the Forte & Tablada team in reviewing the conceptual layout and preliminary design for roundabout at LA 16 and Cook Rd. in Denham Springs, LA. This project completed design phase in January 2022 with construction to be completed by July 2026.
01/17-01/18	US 80 at Old Benton Rd. Roundabout, Bossier Parish in Bossier, LA, City of Bossier. Project Engineer. Developed preliminary and final geometric and sequence of construction plans for the construction of a roundabout at the intersection of US 80 and Old Benton Road. This roundabout was part of a larger permit project sponsored by the City of Bossier to make improvements to US 80.
01/11-06/13	I-12/US 190 EB Exit Improvements in Covington/Mandeville, St. Tammany Parish, LADOTD. Project Manager. Developed preliminary and final plans to widen the eastbound exit to a double exit. The project included the geometric changes to the exit ramp, lengthening of the existing deceleration lane, overhead sign trusses, and guardrail.
01/10-08/11	I-12 (LA 1026 – LA 447) Juban to Walker Widening, Livingston Parish, LADOTD. Project Manager. Developed preliminary and final plans to widen I-12 from 4 to 6 lanes. The project included widening the roadway to the inside, installation of cast-in-place median barriers with conduit for future lighting and overlaying the existing interstate travel lanes.
01/10-01/12	Multiple Roundabout Projects, Multiple Sites in District 62, LADOTD. District Project Manager. Project Manager and supervised staff in the design of a roundabout at the intersection of US 190 and LA 434 in Bayou LaCombe, LA. Also worked as District Project Manager for the 3 roundabouts at the I-12 and US 51B interchange in Hammond, LA as well as the roundabout at the intersection of LA 1077 and LA 1085 in Madisonville, LA.
01/08-06/09	LA 3158 (Airport Road at Old Covington Hwy. Roundabout), Tangipahoa Parish in Hammond, LA, LADOTD. Project Manager. Developed preliminary and final plans to construct a roundabout at the intersection of LA 3158 (Airport Rd.) and Old Covington Hwy. in Hammond, LA. Led a separate project after construction was complete to add landscaping to provide additional visibility of the roundabout.
01/07-04/09	LA 1040 (LA 1040 – US 51) Old Baton Rouge Highway Realignment, Tangipahoa Parish in Hammond, LA, LADOTD. Project Manager. Developed preliminary and final plans to realign LA 1040 (Old Baton Rouge Highway) in Hammond to provide greater separation of the signalized US 51/US 190 and US 51/LA1040 intersections. The project included subsurface drainage, utility relocations, and partnering with the City of Hammond to acquire the right-of-way.
01/06-06/10	LA 1032 (US 190 – River Road) Realignment of River Road, Livingston Parish in Denham Springs, LA, LADOTD. Project Manager. Developed preliminary and final plans to realign LA 1032 (River Road) in Denham Springs to remove a “jog” in the roadway alignment on US 190. The project involved right-of-way acquisition, special design of a reverse crown at the US 190 intersection to minimize drainage impacts, and right-of-way taking to an adjacent business. It also involved working closely with private homeowners impacted by the realignment and transfer of a portion of River Road to the City of Denham Springs after the construction was complete.
01/05-03/07	LA 36/LA 59 (Abita Springs Roundabout), St. Tammany Parish in Abita Springs, LA, LADOTD. Project Manager. This was the first roundabout constructed in District 62 and the second one constructed in Louisiana. Developed conceptual drawings and preliminary and final plans for this project that involved purchasing a building within the Abita Springs Historic District, minimizing right-of-way impacts to a local park, realignment of the Tammany Trace, converting a city street to a one-way street, paving of a gravel city street for maintenance of traffic during construction and realignment of a business driveway and city street to provide adequate distance from the roundabout. Met regularly with business owners throughout the design of the project to discuss issue and added numerous improvements to mitigate impacts to the businesses and facilitate the movement of traffic during construction. The project was later used as a model in developing DOTD’s Context Sensitive Solutions Policy and won an FHWA award for Context Sensitive Design.

	Firm	Forte & Tablada, Inc.			
	Name	Ross Wilson, PLS		Years of Relevant Experience with this Employer	14
	Title	Topo Survey/Construction		Years of Relevant Experience with Other Employer(s)	2
Degree(s)/Years/Specialization		BS/2010/Gemetrics			
Active Registration Number/State/Expiration Date		PLS 5148/LA/03.31.2028; Also Registered PLS in TX, MS, AR, FL, KY, TN, GA. Certified Federal Surveyor (CFedS 1897)			
Year Registered	2015	Discipline	Land Surveying		
Contract Role(s)/Brief Description of Responsibilities		Topographic Survey Manager - Ross will serve as Topographic Survey Manager during this contract, and in that role, he will supervise all field and office work performed on task orders. He will also lead the effort on estimating task orders and producing project deliverables. Mr. Wilson will be responsible for all QA/QC efforts from beginning to end of each task order, including the final project deliverables. Mr. Wilson has 13 years of experience of managing field crews and office work for on-system LADOTD Topographic Surveys, with over 9 years being the Professional Surveyor in Charge on these projects. Mr. Wilson has managed over 40 task orders under 5 separate Topographic and ROW IDIQ Contracts with LADOTD, as well as over 90 Bridge Surveys throughout Louisiana.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
08/23-Ongoing	Contract 4400025029- H.015547, H.015548, H.015549, H.015341, H.015551, H.015552, H.015545, H.015550, H.015544, H.015553 - Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program - 10 State Project Numbers (13 Bridge Sites), East Baton Rouge Parish, LA – Surveyor-in-Charge for topographic surveying and ROW mapping services for 13 bridge sites on 2 lane roadways.				
12/21-Ongoing	IDIQ Contract No. 4400021974 for Professional Surveying Services – Statewide, LA – Surveyor-in-Charge performing Topographic Surveys for LADOTD. To date, this IDIQ contract has included a total of 9 separate Task Orders for 7 State Highway Projects. Survey tasks included establishing deep rod control monuments, Conventional Topo, Hydrographic Survey, terrestrial and mobile LiDAR Survey, and producing Existing Drainage Maps.				
06/21-Ongoing	Contract 4400019336- H.014219, H.014222, H.014228, H.014231 and H.014236 – Rural Bridge Replacement Initiative Phase II; 5 State Project numbers (20 Bridge Sites) in Districts 04 and 05, LA - Surveyor-in-Charge for topographic surveying and right-of-way mapping services for 20 bridge sites on 2 lane rural roadways.				
08/19-Ongoing	H.011670- I-10/Loyola Interchange Improvements, Kenner, LA - Surveyor-in-Charge providing Topographic Survey, Right-of-Way Survey, Drainage Survey, and ROW Monument Mapping. The project stretches along I-10, from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd for approximately 3.2 miles of roadway. The Survey was part of a Design-Build Project, which required weekly data updates, to allow the Design team to begin working and stay on schedule.				
05/17-10/18	H.004791.5- Belle Chasse Bridge and Tunnel Replacement Hydrographic Survey- Plaquemines Parish, LA. Responsible for laser scanning for the Belle Chasse Bridge and Tunnel Replacement project for LA DOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway surfaces, and multi-beam 3-D hydrographic surveying.				

08/15-Ongoing	H.004273.5 – I-49 Connector, Lafayette Parish, LA – Survey Manager/ Surveyor-in-Charge responsible for providing topographic, terrestrial LiDAR scanning, hydrographic, and property surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long.
03/24-04/24	H.015935 LA Hwy 47 Over Bayou Bienvenue- Emergency Bridge Replacement, St. Bernard/Orleans Parish, LA- Surveyor-in-Charge to provide topographic surveying for an emergency bridge replacement of the LA 47 bridge over Bayou Bienvenue. In addition to Conventional Topographic survey, Hydrographic survey of the Bayou was included. The bridge deck features and substructures were scanned through terrestrial LiDAR methods. Due to the emergency status of the project, the project was completed in a condensed timeline.
05/21-12/22	Contracts 4400010587 - Task Order 18; 4400015237- Task Order 1; 4400021974- Task Orders 1, 3, and 4- H.003931- Calcasieu River Bridge (HBI), Calcasieu Parish, LA – Surveyor-in-Charge for this project providing topographic survey, Mobile and Terrestrial LiDAR, Multibeam Hydrographic survey of Lake Charles, and drainage mapping. This project is in a high-traffic industrial area along I-10 and is approximately 7 miles long. This Survey included four Phases of work, which were completed within a condensed timeline, requiring up to 6 Survey Crews being mobilized in order to meet deadlines for each Phase.
06/17-06/22	Retainer Contract No. 4400010587 for Professional Surveying Services – Statewide with Majority of Work in Districts 02, 03, 07, 61 and 62, LA – Surveyor-in-Charge performing Topographic Surveys for LADOTD. This contract showcases Mr. Wilson's familiarity with the process of managing LADOTD Survey IDIQ Task Orders from beginning to end. This Retainer contract included a total of 18 separate Task Orders for 11 State Highway Projects. Survey tasks included establishing deep rod control monuments, Conventional Topo, Hydrographic Survey, terrestrial and mobile LiDAR Survey, and producing Existing Drainage Maps.
06/20-03/22	Contract 4400017598 - H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990- Rural Bridge Replacement Initiative Phase I; 7 State Project Numbers (22 Bridge Sites) in Districts 04, 05, 08 and 58, LA – Surveyor-in-Charge for topographic surveying and ROW mapping services for 22 bridge sites on 2 lane rural roadways.
01/20-10/20	Contract 4400010587- Task Orders 6, 7, and 8- H.012588, H.012169, H.012587 I-10: Atch Basin Br-W. Baton Rouge P/L, I-10: Iberville P/L-W End Miss Br, I-10: W End of Br 290-W End of LA 415, West Baton Rouge & Iberville Parishes, LA - Surveyor-in- Charge for complete topographic survey and Mobile LiDAR of approximately 18.3 miles along I-10, from the East end of the Atchafalaya Bridge to the West end of the I-10/LA 415 Interchange.
01/18-06/19	Contract 4400012323 - H.004100- I-10: LA 415 to Essen Lane to I-10 and I-12, East and West Baton Rouge Parishes - LADOTD- Survey Manager for topographic survey, and terrestrial LiDAR survey of approximately 5 miles of roadway along I-10 and I-12 between LSU lakes and Essen Lane. Project required Forte and Tablada, Inc. to mobilize up to 5 Survey Crews to meet phased deadlines.

	Firm	Forte & Tablada, Inc.			
	Name	Levi Yantis, PE		Years of Relevant Experience with this Employer	11
	Title	LRFR Load Ratings		Years of Relevant Experience with Other Employer(s)	2
Degree(s)/Years/Specialization		BSCE/2013/Civil Engineering			
Active Registration Number/State/Expiration Date		PE.42390/LA/09.30.2026			
Year Registered	2018	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		LRFR Load Ratings			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
09/22-Ongoing	LADOTD Retainer Contract for Bridge Load Rating Services, Statewide, Louisiana - Project Engineer - Task Order 1, Statewide, LA Leading and supervising the load ratings of on-system slab span bridges throughout the state of Louisiana. Team leader for bridge inspections to collect additional deterioration measurements of bridge components. (09/22-Ongoing) Task Order 6, Statewide, LA Leading and supervising the load ratings of on-system girder span bridges throughout the state of Louisiana. Structure types range from prestressed concrete girder spans to continuous steel girder units.				
03/23 – 07/23	E Lewis St Bridge Upgrades, Lafayette, LA - Project Engineer Performed an updated load rating of an existing steel girder span that was load posted at 3T under a state load rating contract. Material testing was completed to obtain specific material properties, used with previous load testing data, the need for load posting was determined to no longer be necessary.				
03/18 – 04/22	LADOTD Retainer Contract for Off-System Bridge Load Rating, Statewide, LA -Project Engineer for a retainer contract that includes multiple Task Orders to inspect and load rate off-system bridges and culverts across the state. Task Order 1 – Led and assisted in 12 complex moveable bridge inspections and load ratings throughout the state. The bridge types included a single leaf bascule span, a vertical lift truss span, several steel vertical lift spans, multiple pontoon bridges, a steel plate girder swing bridge, a small steel truss/cable swing span, and a non-moveable steel truss. (Inspection and load rating of 12 complex off-system bridges, including lift spans, swing spans, bascule spans, ferry landings, and truss bridges. Task Order 2 – Led and supervised the load ratings of 200 off-system slab span bridges throughout the state of Louisiana. To avoid posting bridges lower than necessary, bridge inspections were done for several bridges that had severe deterioration noted in their inspection reports to collect additional deterioration measurements to accurately determine the bridge member's load carrying capacity. Task Order 5 – Load testing and refined load rating analysis of slab span bridges and culverts that previously received low or closed load postings.				
02/22-Ongoing	Ascension Parish Load Ratings of Parish Owned Bridges, Ascension Parish, LA – Team Leader for a General Services Agreement to provide load ratings of Parish owned bridges on an as-needed basis. Approximately fifteen (15) Task Orders have been to inspect, perform a condition assessment, and provide a load rating report in accordance with LADOTD requirements for off-system bridges. Other Task Orders have been to inspect, determine rehabilitation details, and, when requested, develop construction plans for the rehabilitation of bridges with Critical Findings based on bi-annual inspections by LADOTD.				

03/23-06/23	Port of New Orleans, St. Claude Avenue Bridge Updated Load Rating, New Orleans, LA Project Engineer Performed an updated load rating for the single bascule span on St. Claude Avenue after significant section loss was found by LADOTD inspection forces. Performed an inspection to verify and quantify section loss measurements noted in the LADOTD inspection report.
10/21-05/22	DOW Chemical Bridge Design, Iberville Parish, LA - Designed a precast slab span bridge within the DOW Chemical plant facility. The bridge was designed to LADOTD specifications, as well to support the plant's oversized crane. Special design consideration had to be taken for the soil constraints at the site.
11/18-12/18, 09/22-10/22	Port of New Orleans, St. Claude Avenue Bridge Permit Load Rating, New Orleans, LA Performed permit load ratings for an overload vehicle to safely pass the single bascule span on St. Claude Avenue.
03/21-10/21	TDOT Complex and Standard Bridge Load Ratings, Statewide, TN - Oversaw a team of load raters performing 35 AASHTOWare BrR load ratings in 4 months and was responsible for the quality control of the model inputs and outputs, troubleshooting bridge models, and assisting in load ratings. The bridge types load rated using AASHTOWare BrR software were prestressed I-beams and box girders, reinforced concrete multi-cell box bridges, reinforced concrete T-beams, continuous steel plate girders, and steel girder-floorbeam-stringer systems.
01/20-10/21	LADOTD Retainer for Complex In-Depth Bridge Inspections, Statewide, LA Served as Team Leader for the structural, mechanical and electrical in-depth inspections for multiple movable bridges. Bridge types included vertical lift span bridges and steel swing bridges (through girders and through trusses). Also served as the task manager for preparing the in-depth inspection reports. There was also a task order under this contract to perform emergency repairs on an US 71 Bridge in Shreveport, LA. Led the superstructure design for the emergency repairs.
06/16-04/20	St. Tammany Parish Off-System Bridge Load Ratings, St. Tammany Parish, LA Led and assisted in bridge inspections and served as the load rating engineer for bridges throughout the parish of St. Tammany. The bridge types include slab spans, prestressed girder spans, and bridges constructed from retired railroad flatcars.
05/16-10/19	LADOTD Retainer Contract for Complex Bridge Rating, Statewide, LA Bridge inspector and load rater for a through truss bridge over a branch of the Pearl River. The bridge consisted of 3 pony truss spans and reinforced concrete T-beams and was load rated utilizing AASHTOWare BrR, Leap Bridge Concrete and Mathcad software.
03/14-03/17	LADOTD Load Rating of On-System Bridges, Statewide, LA - Assisted in load rating of approximately 200 existing bridges across the state of Louisiana. Bridges range from slab span bridges on local roads to elevated curved steel interstate bridges in metropolitan areas.

	Firm	KPFF, Inc.			
	Name	Mark Powlison (ANSI Level 3)		Years of Relevant Experience with this Employer	13
	Title	Material Testing		Years of Relevant Experience with Other Employer(s)	19
Degree(s)/Years/Specialization		AS/2005/Metals Technology			
Active Registration Number/State/Expiration Date		N/A			
Year Registered	N/A	Discipline	N/A		
Contract Role(s)/Brief Description of Responsibilities		Material Testing. Mark has extensive experience in the materials investigation and testing field. His career began in non-destructive testing and gradually grew to special inspections, from which he has refined his skills over the last 26 years. During this time, Mark has managed special inspection services for many healthcare, public and high-profile facilities.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
01/94-Ongoing	Inspected/tested/evaluated: ▶ Bureau of Overseas Buildings Operations (OBO), U.S. Embassy Structural Engineering Investigation & Repair Recommendations, Vientiane, Laos ▶ OBO, FY19 Capital Project Selected Improvements, Vienna, Austria ▶ OBO, New Embassy Compound, Asuncion, Paraguay ▶ Chevron Business and Real Estate Services, Seismic and Structural Building Assessments, Worldwide ▶ Port of Portland, PDXNext, Parking Addition & Consolidated Rental Car Facility, Portland, OR ▶ Port of Vancouver, Terminal 2 Berth 7 Bulk Facilities Assessment, Vancouver, WA ▶ Portland General Electric, Integrated Operations Center, Tualatin, OR ▶ 250 Taylor Office Building (NW Natural Office), Portland, OR ▶ Clackamas County, Holly Lane Bridge Inspection and Load Rating Assessment, Oregon City, OR ▶ City of Gladstone, Gladstone Police Department Building Seismic Rehabilitation, Gladstone, OR ▶ US Department of Veterans Affairs, Portland VA Medical Center Seismic Upgrade and Addition, Portland, OR (in design) ▶ US General Services Administration, William Kenzo Nakamura US Courthouse Exterior Facade Evaluation Testing and Remediation, Seattle, WA ▶ State of Oregon, Oregon Supreme Court Building Facade Restoration, Salem, OR ▶ Salem Health, Salem Hospital Parking Garage Addition and ▶ Seismic Upgrade, Salem, OR (in construction) ▶ Intel Corporation, Ronler Acres Fabrication and Office Building, Hillsboro, OR ▶ Unico Properties LLC, The Weatherly Building Seismic Retrofit, Portland, OR (in design) ▶ Urban Renaissance Group, 1320 Broadway Building Renovation Special Inspections, Portland, OR ▶ Towne Storage Property, LLC, Towne Storage Building Adaptive Reuse, Portland, OR				

	Firm	Marrero, Couvillon & Associates, L.L.C.		
	Name	Christian Schade, PE	Years of Relevant Experience with this Employer	9
	Title	Sr. Electrical Engineer	Years of Relevant Experience with Other Employer(s)	24
Degree(s)/Years/Specialization		BS / 1993/ Electrical Engineering		
Active Registration Number/State/Expiration Date		PE 32483 / LA / 09/30/2026		
Year Registered	2006	Discipline	Electrical Engineering & Computer Engineering	
Contract Role(s)/Brief Description of Responsibilities		Bridge Lighting. Christian's areas of expertise include electrical engineering for roadway lighting, power distribution, power generation, lighting, specification writing and contract administration. His experience includes Power system analysis, consisting of load flow, fault, arc flash and coordination studies using SKM Power Tools for Windows and ETAP. Proficient with incident energy level method of Arc Flash calculations per NFPA 70E, 2015 version. Electrical design support for small to medium size projects in industrial facilities, including installation of new pumps, agitators, metering equipment, lighting, and power distribution centers		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/17 – 11/20	I-10 and 73 Widening – Design Build. LA DOTD. Sr. Electrical Engineer. Provided electrical engineering and design for lighting on the I-10 Widening from Highland to LA 30 design-build project.			
04/18 – 02/20	France Road – North, Roadway and Drainage Improvements, New Orleans, LA. Port of New Orleans. Sr. Electrical Engineer. MCA provided the electrical and mechanical engineering services for the roadway, lighting, and drainage improvements.			
11/16 – 6/17	Louis Armstrong New Orleans Airport International Airport Pavement Remediation at Eastern Side of Runway 11-29, Kenner, Louisiana. City of New Orleans. Sr. Electrical Engineer. Electrical design services for Pavement Remediation of sag in existing runway pavement on the eastern side of Runway 11-29 near Taxiway Alpha at the airport.			
04/18 – 02/19	Howard Avenue Extension (Loyola Avenue to LaSalle Street) New Orleans, LA. City of New Orleans. Sr. Electrical Engineer. Marrero, Couvillon & Associates is responsible for the Electrical Services for the Howard Avenue Extension. Work includes revising roadway lighting from high pressure sodium lights to LED lights per new City of New Orleans Standards. Revisions include changing light fixtures, downsizing electrical conductors and revising drawings including bill of materials. Performing lighting calculations and following illumination guidelines per the latest IES roadway lighting recommended practices.			
01/20-06/20	Bluebonnet Blvd. (Picardy to Highland) Roadway Lighting, Baton Rouge. City/Parish of East Baton Rouge. Sr. Electrical Engineer. The scope of work includes additional lane capacity in each direction. Bluebonnet Blvd is two lanes in each direction currently. Pedestrian facilities are interspersed throughout the corridor and there is commercial development abutting the corridor. The project is to add an additional travel lane in each direction and provide for connected pedestrian facilities throughout the corridor. MCA is responsible for all activities necessary to complete a lighting plan and a photometric analysis report that contains illumination analysis of all roadways and/or interchanges within the project limits and conform to illumination criteria specified in the design guidelines are included in this scope.			
09/23-On-going	I-20 Widening, Wells to LA34 Electrical and Lighting Design , Baton Rouge. LA DOTD. Sr. Electrical Engineer. The scope of work is to provide additional traffic capacity in each direction. This was accomplished primarily by increasing the entrance/ exit ramps. MCA provided design services to analyze the existing conditions of the roadway lighting, which consisted of high pressure sodium fixtures on low mast poles, and provide modifications to the existing lighting systems as necessary to accommodate the changes in roadway geometry. This includes upgrading the existing fixtures to LED, re-position select poles, and upgrading the secondary controllers to current standards.			

	Firm	Marrero, Couvillon & Associates, L.L.C.		
	Name	M. Kimball Schlafly, PE	Years of Relevant Experience with this Employer	6
	Title	Bridge Lighting	Years of Relevant Experience with Other Employer(s)	32
Degree(s)/Years/Specialization		BS/1988/Electrical Engineering		
Active Registration Number/State/Expiration Date		PE 27699 / LA/ 09-30-2026		
Year Registered	1998	Discipline	Electrical Engineering	
Contract Role(s)/Brief Description of Responsibilities		Bridge Lighting- Kimball has over 35 years of engineering experience in electrical engineering, project engineering and project management. He has been responsible for various projects requiring design of roadway lighting, low and medium voltage power distribution, standby and emergency power systems, telecommunications, fire alarm, access control, video surveillance, and theatrical audio/visual and lighting systems.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/17-11/20	I-10 and 73 Widening – Design Build. LADOTD. Sr. Electrical Engineer. Provided electrical engineering and design for lighting on the I-10 Widening from Highland to LA 30 design-build project.			
04/18-02/19	Howard Avenue Extension (Loyola Avenue to LaSalle Street) New Orleans, LA. City of New Orleans. Sr. Electrical Engineer. Marrero, Couvillon & Associates is responsible for the Electrical Services for the Howard Avenue Extension. Work includes revising roadway lighting from high pressure sodium lights to LED lights per new City of New Orleans Standards. Revisions include changing light fixtures, downsizing electrical conductors and revising drawings including bill of materials. Performing lighting calculations and following illumination guidelines per the latest IES roadway lighting recommended practices issued in 2014.			
01/20-06/20	Bluebonnet Blvd. (Picardy to Highland) Roadway Lighting, Baton Rouge. City/Parish of East Baton Rouge. Sr. Electrical Engineer. The scope of work includes additional lane capacity in each direction. Bluebonnet Blvd is two lanes in each direction currently. Pedestrian facilities are interspersed throughout the corridor and there is commercial development abutting the corridor. The project is to add an additional travel lane in each direction and provide for connected pedestrian facilities throughout the corridor. MCA is responsible for all activities necessary to complete a lighting plan and a photometric analysis report that contains illumination analysis of all roadways and/or interchanges within the project limits and conform to illumination criteria specified in the design guidelines are included in this scope.			
09/23-Ongoing	I-20 Widening, Wells to LA34 Electrical and Lighting Design , Baton Rouge. LADOTD. Sr. Electrical Engineer. The scope of work is to provide additional traffic capacity in each direction. This was accomplished primarily by increasing the entrance/exit ramps. MCA provided design services to analyze the existing conditions of the roadway lighting, which consisted of high pressure sodium fixtures on low mast poles, and provide modifications to the existing lighting systems as necessary to accommodate the changes in roadway geometry. This includes upgrading the existing fixtures to LED, re-position select poles, and upgrading the secondary controllers to current standards.			

	Firm	T. Baker Smith, LLC		
	Name	Kenny Belou, PE	Years of Relevant Experience with this Employer	4
	Title	Road Design/Reviews	Years of Relevant Experience with Other Employer(s)	17
Degree(s)/Years/Specialization		BS / 2009 / Civil Engineering		
Active Registration Number/State/Expiration Date		PE.38850 / LA / 09.30.2026		
Year Registered	2014	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Roadway Design. Kenny has extensive roadway design, project management, and quality control experience supporting LADOTD transportation projects throughout Louisiana. His experience includes statewide IDIQ task order management, roadway widening, roundabouts, pavement preservation, intersection improvements, drainage design, traffic control, signing and pavement markings, utility coordination, bridge replacement programs, and construction-phase support. He has served as Overall Project Manager, Project Manager, Engineer of Record, and Supervisor Engineer on LADOTD projects involving urban and rural roadways, interstate pavement preservation, corridor improvements, off-system bridge replacements, and complex roundabout designs.		
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
03/23 – Present	LADOTD, Contract 44-24928, IDIQ Contract for Roadway Design Services, Statewide, LA. Overall Project Manager. Kenny serves as the overall Project Manager for this statewide IDIQ contract, currently supporting five active task orders with an additional task order in negotiation. In this role, he leads task order development and execution, including defining scopes, preparing fee estimates, and establishing schedules to support LADOTD's project delivery needs. He oversees project activities across multiple concurrent efforts, coordinating closely with LADOTD staff, internal teams, and subconsultants to ensure alignment and responsiveness. Kenny manages budgets and schedules at both the task order and contract level while maintaining consistent delivery of high-quality design packages. His experience includes managing multiple concurrent task orders under this contract and supporting delivery in accordance with LADOTD processes and requirements.			
10/22 – 01/26	LADOTD, S.P. No. H.001344, US 190: LA 437 to US 190 Bus (Ph 1), St. Tammany Parish, LA. Project Manager. Kenny served as TBS' project manager during construction support for US 190 Phase 1, which included roadway widening, intersection improvements, drainage design, traffic control, and a new 1,400-foot bridge over the Bogue Falaya River. He oversaw responses to contractor RFIs, shop drawing reviews, submittals, and construction-phase questions, coordinating closely with LADOTD District personnel, LADOTD Headquarters construction staff, the contractor, and the design team. His role helped maintain alignment between the approved plans, design intent, field conditions, and construction-phase decisions.			
10/22 – 04/23	LADOTD, escrip S.P. No. H.013116, LA 20 Widen: LA 307 – S. Vacherie, St. James & Lafourche Parishes, LA. Engineer of Record (Road) and Project Manager. Kenny managed the design and delivery of the asymmetrical widening of 2.7 miles of LA 20 to add 8-foot shoulders near Vacherie, Louisiana. As EOR, he was responsible for roadway design including horizontal and vertical alignments, drainage systems (subsurface and open ditch), cross sections, and permanent signing and pavement markings. He performed quality control review of bridge plans to ensure compliance with LADOTD standards and coordinated design efforts with an adjacent in-construction state project within the corridor. Kenny coordinated with LADOTD project management, pavement and hydraulics sections, and subconsultants to maintain alignment with project requirements. He also oversaw the design of utility relocations along the corridor, delivered as a separate project through St. James Parish.			

11/23 – Present	LADOTD, S.P. No. H.015576, LA 447 & LA 1025: Roundabout, Livingston Parish, LA. Supervisor Engineer. Kenny supports delivery of this roundabout project in Livingston Parish as a task order under the LADOTD Roadway Design Services IDIQ contract. In this role, he is responsible for overseeing project execution, including quality assurance and quality control, coordination across disciplines and maintaining schedule and deliverable expectations. He manages project activities in coordination with LADOTD staff and the design team to ensure alignment with project requirements. Final Plans are anticipated to be submitted in Q2 2026.
10/24 – 09/25	LADOTD, S.P. No. H.015721, LA 30: Roundabout @ St Elizabeth/S Penn, Ascension Parish, LA. Supervisor Engineer. Kenny supported execution of this roundabout project in Ascension Parish as a task order under the LADOTD Roadway Design Services IDIQ contract. He oversaw key aspects of project delivery, including QA/QC processes, interdisciplinary coordination, and adherence to schedule and deliverable requirements. He worked with the project team to maintain alignment with LADOTD expectations throughout design development. Work is currently suspended to allow for scope modification and stakeholder coordination prior to resuming design efforts.
07/25 – 09/25	LADOTD, S.P. No. H.015308, I-49: I-10 to St. Landry Parish Line, Lafayette Parish, LA. Supervisor Engineer. Kenny supported the design and delivery of this pavement preservation project as a task order under the LADOTD Roadway Design Services IDIQ contract. The project included milling, patching, and overlay of approximately 9 miles of interstate, along with guardrail replacement and rehabilitation of concrete sections. He oversaw key aspects of project execution, including QA/QC, interdisciplinary coordination, and adherence to schedule requirements, and assisted with survey deliverables (performed under Contract 44-21973). Kenny ensured delivery of plans within a 45-day schedule to meet LADOTD's expedited project needs.
05/23 – Present	LADOTD, Contract 44-25027, Infrastructure Investment and Jobs Act (IIJA) Off System Bridge Program District 08, District 08, LA. Supervisor Engineer. Kenny supports delivery of this multi-project bridge replacement program, which includes 12 offsystem bridges and their adjacent roadways throughout LADOTD District 08. Bridge lengths range from approximately 40 to 135 feet and include a variety of structure types such as cross drains, box culverts, and reinforced concrete slab span bridges. He oversees contract and schedule execution across multiple concurrent projects and is responsible for quality control of all design elements, including bridge, roadway, and hydraulic components. Kenny coordinates with internal task managers, LADOTD project management, District and Area engineers, and subconsultants to ensure timely and complete deliverables across the program.
10/22 – 12/22	LADOTD, S.P. No. H.012812, US 190 at Northshore and Camp Villere, St. Tammany Parish, LA. Supervisor Engineer. Kenny provided engineering support for this project, which included a multi-lane roundabout at US 190 and Northshore Boulevard and a single-lane roundabout at US 190 and Camp Villere Road. He performed quality control reviews of plans, design criteria, and project calculations, and coordinated with subconsultants and LADOTD on deliverables. Kenny played a key role in developing construction sequencing for complex drainage and roadway improvements, maintaining traffic through the heavily traveled US 190 corridor during construction.
01/25 – Present	LADOTD, S.P. No. H.015587, LA 3211 @ Yokley Road Roundabout, St. Mary Parish, LA. Supervisor Engineer. Kenny supports delivery of this roundabout project as a task order under the LADOTD Roadway Design Services IDIQ contract. He oversees key aspects of project execution, including QA/QC, interdisciplinary coordination, and adherence to schedule and deliverable requirements. The project includes development of roadway geometry, drainage improvements, and traffic control features associated with the roundabout. Kenny works with the project team and LADOTD to maintain alignment with project requirements and ensure consistent, high-quality deliverables.

	Firm	T. Baker Smith, LLC		
	Name	Anthony Burns	Years of Relevant Experience with this Employer	4
	Title	Project Manager	Years of Relevant Experience with Other Employer(s)	19
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		Topo Survey/Construction. Anthony has over 23 years of experience as a rodman, party chief, and project manager with numerous LADOTD and City-Parish projects involving topographic, ROW, and boundary surveys. His experience includes conventional and terrestrial LiDAR, and mobile LiDAR scanning. He is thoroughly familiar with LADOTD Location and Survey Procedures, manuals, and software programs with respect to all requirements. He manages our survey field crews and equipment. He holds ATSSA Traffic Control Technician (TCT), Traffic Control Supervisor, and Flagger certifications, and is TWIC and OSHA certified.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
06/23 - Ongoing	IIJA Off-System Bridge Replacement Program; Contract No. 44-25027; LADOTD; Statewide, Louisiana - Project Manager. Assisted in the completion of topographic surveys, property surveys, and ROW maps for the replacement of 12 bridges. Assisted with field crew coordination, data processing, project QA/QC, and deliverables preparation. Surveys were performed to LADOTD Location and Survey standards.			
11/23 - 06/24	S.P. No. H.015576, LA 447 & LA 1025: Roundabout; LADOTD; Livingston Parish, LA - Project Manager. Responsible for field crew oversight and data processing and review. Performed Topographic survey for the design and construction of a roundabout at the intersection LA 447 and LA 1025 near Walker, Louisiana.			
11/21 - Ongoing	Contract 44-21973 for Professional Surveying Services; LADOTD, Statewide, LA - Senior Technician. Anthony assists in the development of manhour estimates and the completion of topographic surveys under this contract. He coordinates right-of-entry with landowners, manages field crews, and processes data daily. He performs project QAQC and aids in Deliverables preparation.			
09/25 - Ongoing	S.P. No. H.008069 Peters Road Bridge and Extension (Phase 3); LADOTD - Jefferson and Plaquemines Parishes, LA - Senior Technician. Responsible for field crew coordination and data processing. Performing Topographic, Bathymetric, and Property surveys across approximately 2.8 miles of Virgin terrain for construction of a road between Walker Road and Engineers Road, including a bridge over the Intracoastal Waterway and Bayou Barataria. ROW Maps are included in this effort to aid in acquisition of the required ROW.			
08/19 - 11/19*	S.P. No. H.005121.5 LA 1 / LA 415 Connector; LADOTD; West Baton Rouge Parish, LA - Technician. Responsible for field crew coordination and data processing. Performed Topographic and Bathymetric surveys across approximately 2.5 miles of Virgin terrain for construction of a connector Road between LA 415 and LA 1, including a bridge over the Intracoastal Waterway.			
02/16 - 02/17*	S.P. No. H.005403: Hooper Road Extension; LADOTD, East Baton Rouge and Livingston Parishes, LA - Technician. Responsible for field crew coordination and data processing. Performed Topographic and Bathymetric surveys across approximately 3 miles of virgin terrain for the design and construction of the Hooper Road Extension between Greenwell Springs Road and LA 16, including a bridge over the Amite River.			

	Firm	T. Baker Smith, LLC		
	Name	Ryan DiSalvo, PLS	Years of Relevant Experience with this Employer	9
	Title	Project Manager	Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization		BS/2019/Geomatics		
Active Registration Number/State/Expiration Date		PLS.5326/Louisiana/03.31.2028		
Year Registered	2023	Discipline	Professional Land Surveyor	
Contract Role(s)/Brief Description of Responsibilities		Topo Survey/Construction. Ryan will serve as a project surveyor.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
11/23 - Ongoing	IDIQ Contract for Roadway Design Services Statewide: H.015576 LA 447 & LA 1025: Roundabout; LADOTD; Livingston Parish, LA. Survey Technician. Ryan assisted in the completion of a topographic survey for the design and construction of a roundabout. He coordinated with field crews and processed data daily. Ryan also performed QAQC and aided in Deliverables preparation.			
06/23 - Ongoing	Contract 44-25027, Infrastructure Investment and Jobs Act (IIJA) Off System Bridge Program District 08; LADOTD; District 08, LA. Survey Technician. Assisted in the completion of topographic surveys, property surveys, and ROW maps for the replacement of 12 bridges. Assisted with data processing, title research, and preparation of property surveys and ROW maps. Surveys were performed to LADOTD Location and Survey standards.			
06/22 - Ongoing	Contract 4400019336 – Rural Bridge Replacement Initiative Phase II (40 bridge structures), Districts 04 & 05 (LADOTD). Survey Technician. Provided technical survey support for the 40 bridge replacements structures.			
08/20 – 06/22	Contract 44-17598, Rural Bridge Replacement Initiative, Ph I (87 bridge structures); LADOTD; Districts 04, 05, 08, 58. Survey Technician. Assisted in the completion of Topographic Surveys for the replacement of 87 bridge structures in North LA.			
08/25 - Ongoing	Contract 44-21973 IDIQ for Professional Surveying Services; LADOTD; Statewide, LA. Survey Technician. Ryan provides technical survey support including coordination with survey crews, assistance with topographic data collection and processing, utility research, drainage map development, and QA/QC review to help ensure accurate deliverables and adherence to project schedules.			
08/22 – 01/26	S.P. No. H.014918 LA 73 Roundabout at Bluff Road Connector; LADOTD/Ascension Parish; Ascension Parish, LA. Sr. Technician. Assisted in data processing and project QAQC. Performed Topographic Survey, Property Surveys, and Right-of-Way Mapping for the design and construction of a Roundabout at the intersection of LA 73 and the proposed Bluff Road Connector.			

	Firm	T. Baker Smith, LLC		
	Name	Rene Hebert, PLS, PMP	Years of Relevant Experience with this Employer	17
	Title	Survey - Title Work Task Leader/Property - Boundary	Years of Relevant Experience with Other Employer(s)	2
Degree(s)/Years/Specialization		BS/2008/Geomatics		
Active Registration Number/State/Expiration Date		PLS.5070/LA/03.31.2028		
Year Registered	2011	Discipline	Professional Land Surveyor	
Contract Role(s)/Brief Description of Responsibilities		Property - Boundary. 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 (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/20-02/24	Contract 44-17598, 4400019336 Rural Bridge Replacement Initiative Phases I & II; 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 ROW 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 ROW maps.			
06/23-Ongoing	Contract 44-25027, Infrastructure Investment and Jobs Act (IIJA) Off System Bridge Program District 08; LADOTD; District 08, LA – Survey Lead Professional. Performed resource allocation and oversight for the completion of topographic surveys, property surveys and ROW maps. Project involved the replacement of 12 bridges and all deliverables were prepared according to LADOTD Location and Survey Standards.			
07/16-09/16	S.P. 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 ROW 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.			
08/22-Ongoing	S.P. No. H.014918 LA 73 Roundabout at Bluff Road Connector; Ascension Parish Government, Ascension Parish, LA – Survey Lead Professional. Performed resource allocation and oversight for the completion of topographic surveys, property surveys and ROW maps. Project involved the design and construction of a roundabout at the intersection of LA 73 and the proposed Bluff Connector Road.			

	Firm	T. Baker Smith, LLC		
	Name	Victor Hernandez	Years of Relevant Experience with this Employer	8
	Title	Coast Guard Permitting - Agency Coordination/ Wetlands - Sect. 404 - Water Quality - Coastal Use	Years of Relevant Experience with Other Employer(s)	2
Degree(s)/Years/Specialization		BS/2014/Biology		
Active Registration Number/State/Expiration Date		N/A		
Year Registered	N/A	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities		Coast Guard Permitting - Agency Coordination/Wetlands - Sect. 404 - Water Quality - Coastal Use. Victor is an environmental professional and holds a bachelor's degree in biology. He leads environmental monitoring studies, environmental assessments, and threatened and endangered species surveys. Additionally, Victor prepares reports and completes field work as necessary to complete documentation for projects, including SWPPP Plans/Inspections, soil sampling, wetland delineations, wildlife identification, endangered species/habitat biological assessments, and migratory bird surveys. Victor has extensive experience in preparing solicitation of view documents (SOVs), categorical exclusions (CEs), Environmental Assessments (EAs), and Environmental Impact Statements (EISs). Victor is a Radiation Safety Officer, and maintains ATSSA Traffic Control Technician and Flagger certifications.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/26 - Ongoing	FY26 Bridge Bundle Program - LA 1071 over Creek / LA 1036 over Tickfaw River / LA 444 over Dunham Bayou; Office of Louisiana Highway Construction; Statewide, LA. Environmental Professional. TBS is the prime consultant for OLHC's 2026 Bridge Bundle Program engineering services for nine bridge replacement projects across Districts 02, 61, and 62. Victor conducted wetland delineation field work, prepared report of findings, conducted threatened and endangered (T&E) species surveys, and assisted with desktop environmental reviews and regulatory permitting.			
05/23-Ongoing	Contract 44-25027, Infrastructure Investment and Jobs Act (IIJA) Off System Bridge Program District 08; LADOTD; District 08, LA. Environmental Professional. Performed wetland delineation field work and report preparation, NEPA Categorical Exclusion Documents, performed bat assessments, and regulatory permit applications for the replacement of 12 bridge structures in District 08.			
08/20-08/21	Contract 44-17598 - Rural Bridge Replacement Initiative Phase I, LADOTD, Districts 04, 05, 08, 58. Environmental Professional. Performed wetland delineation field work and report preparation, NEPA Categorical Exclusion Documents, performed bat assessments, and regulatory permit applications for the replacement of 47 bridge structures in northern Louisiana.			
06/21-03/23	Contract 44-19336 - Rural Bridge Replacement Initiative Phase II, LADOTD, Districts 04 and 05. Environmental Professional. Performed wetland delineation field work and report preparation, NEPA Categorical Exclusion Documents, performed bat assessments, and regulatory permit applications for the replacement of 40 bridge structures in northern Louisiana.			
11/19-12/19	State Project No. H.013199 Country Estates Dr. / St. Louis Bayou- E, Terrebonne Parish Government, Terrebonne Parish, LA - Environmental Professional. Performed wetland delineation for the replacement of Country Estates Drive/St. Louis Bayou offsystem bridge.			

	Firm	T. Baker Smith, LLC		
	Name	Austin LaCombe, PE	Years of Relevant Experience with this Employer	1
	Title	Lead Professional, Subsurface Utility Engineering	Years of Relevant Experience with Other Employer(s)	10
Degree(s)/Years/Specialization		Bachelor of Science/2017/Civil Engineering Associate of Science/2015/Pre-Engineering		
Active Registration Number/State/Expiration Date		47563/LA/09.30.2027		
Year Registered	2023	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Subsurface Utility Engineering. Austin will provide Subsurface Utility Engineering services for the projects.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
03/26 - Ongoing	S.P. No. 4400025511, IDIQ SUE Services Statewide; LADOTD; Statewide, LA. Acts as Contract Manager and Engineer of Record for multiple task orders involving Subsurface Utility Engineering (SUE) services. He provides technical leadership and task order oversight. Oversees the execution of Quality Level B and Quality Level A investigations in accordance with project requirements and applicable industry standards. Ensures ASCE 38-22 guidelines are upheld and coordinates with project surveyors to verify that the utility survey file meets the standards set by DOTD's Location and Survey group.			
03/26 - Ongoing	Project No. SP-9999-09(300)/108881-101000, IDIQ SUE Services Statewide; MDOT; Statewide, MS. Serves as Project Manager for multiple task orders involving Subsurface Utility Engineering (SUE) services. Responsibilities include scope determination, client coordination, managing the delivery of Quality Level B and Quality Level A investigations in accordance with project-specific requirements, and deliverable preparation. Ensures compliance with ASCE 38-22 guidelines and supports accurate utility mapping.			
07/15 – 12/21*	S.P. No. H.004273.5, I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange); LADOTD; Lafayette Parish, LA. As a sub to Stantec, Austin served as the SUE Project Manager for the utility portion of this highly complex project. He provided ASCE 38-02 Quality Level A and B services to map underground utilities within 7 miles of downtown Lafayette, as well as Utility Coordination to keep Utility Owners aware of project progression. After compiling the Quality Level B data, Quality Level A "Test Holes" were utilized to establish elevations on critical utility systems determined to be in potential conflict with design.			
1/18 – 5/20*	S.P. No. H.004100.5, I-10: LA 415 to Essen Lane on I-10 and I-12; LADOTD; East Baton Rouge and West Baton Rouge Parishes, LA. Austin served as a project manager for one of the larger SUE projects ever contracted by DOTD. This project involved ASCE 38-02 Quality Level B SUE services throughout the 10-mile project corridor crossing the Mississippi River, in Baton Rouge, LA. Quality Level B efforts were completed in phases to meet key project milestones, resulting in the need for major coordination efforts among design team members to merge data efficiently and accurately. Once complete, a comprehensive map was created to depict the horizontal location of all utilities within the project limits.			
1/20 – 11/20*	S.P. No. H.002868.5, I-49 South: Ambassador Caffery & US 90 Interchange; LADOTD; Lafayette Parish, LA. Project Manager and Utility QA/QC Lead. This project involved providing designating (Quality Level B) and locating (Quality Level A) SUE services to map the underground utilities along this congested route. The first task required designating subsurface utilities along several miles of the Ambassador Caffery and US 90 right-of-way. After the completion of the Quality Level B investigation, this information was reviewed to conduct locating services on critical utilities in an effort to mitigate potential utility conflicts.			
10/21 – 2/22*	S.P. No. H.009266.5, I-10: LA 73 to LA 30; LADOTD; Ascension Parish, LA. Served as Project Manager. For this project, DOTD planned to widen I-10 from 4 to 6 lanes from LA 73 to LA 30. The SUE services managed by Austin included Quality Level B at the LA 73 and I-10 interchange as well as Quality Level D services for the remainder of the project limits.			

	Firm	T. Baker Smith, LLC		
	Name	Matthew Stevens	Years of Relevant Experience with this Employer	21
	Title	Hydrographic Marine Solutions Lead	Years of Relevant Experience with Other Employer(s)	0
Degree(s)/Years/Specialization		Associate of Science/2005/Drafting and Design Technology		
Active Registration Number/State/Expiration Date		N/A		
Year Registered	N/A	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities		Hydrographic Survey. Matt served as a Hydrographic Surveyor/Senior Technician responsible for performing and overseeing multibeam, side-scan, magnetometry, and sub-bottom hydrographic surveys for bridge, port, wharf, and demolition projects. His responsibilities included locating underwater debris, piles, pipelines, and remaining structures; collecting river/ lake bottom elevation data; processing and QA/QC of survey data; preparing digital terrain models and bottom elevation deliverables; and developing survey data for use in design, inspection, demolition, and agency coordination, including LADOTD and USCG coordination.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
03/14-06/14	LADOTD, S.P. No. H.008149, Pier 1 Removal (Leeville Bridge), LA 1, Lafourche Parish, LA. Hydrographic Surveyor. Responsible for performing high resolution multibeam echosounder hydrographic survey to locate remaining pile structure and deliver digital terrain model and elevation data of structure to LADOTD for USCG coordination of the pier removal at the Leeville Bridge.			
11/11 - 01/12	I-10 Twin Span Demolition Survey, Orleans Parish, LA (NASDI, LLC). Hydrographic Surveyor. Hydrographic surveys for identifying and locating debris, pipelines, or other infrastructure on the bottom of the lake for the demolition of the I-10 Twin Spans.			
01/12 - 02/12	St. Bernard Port, Harbor and Terminal District Chalmette Slip Surveys, St. Bernard Parish, LA (St. Bernard Port, Harbor and Terminal District). Hydrographic Surveyor. Performed underwater acoustic hydrographic surveys including multi-beam, side- scan, magnetometry, and sub-bottom surveys in the Mississippi River in order to obtain detailed bottom conditions near the Chalmette Slip docking facility to recover damage heel-post turning dolphins and conduct other inspections.			
02/25 - 03/25	Project No. STBG-0058-01(042)/109105-101100 – SR 50 Bridge Replacement (Bridge No. 85.7); MDOT; Lowndes County, MS. Senior Technician. Matt oversaw the completion of a multibeam hydrographic survey of the Tombigbee River channel extending 1,500 feet upstream and downstream of the SR 50 bridge utilizing a twenty-four (24) foot vessel and R2 Sonic 2020 Multibeam Echo Sounder. Following post-processing and QAQC, Matt extracted river bottom elevations at ten (10) feet intervals to be inserted into the final survey DGN.			
07/18 - 08/19	Nashville Wharf Terminal Survey Services, Orleans Parish, LA (AECOM, Ports America, Port NOLA). Hydrographic Surveyor. Hydrographic side-scan and multibeam survey was performed from immediately in front of the wharf to hundreds of feet into the Mississippi River to record the contour of the river bottom for use in design of the proposed improvements to the facility. Also, Detailed topographic survey was performed over the site, including under the wharf to collect the mudline topography from the face of the wharf to the bulkhead.			

	Firm	T. Baker Smith, LLC		
	Name	T. J. Stokes, PE		Years of Relevant Experience with this Employer
	Title	SUE/Utility Coordination		Years of Relevant Experience with Other Employer(s)
Degree(s)/Years/Specialization		BS/2009/Industrial Engineering		
Active Registration Number/State/Expiration Date		PE.40079/LA/03.31.2028		
Year Registered	2015	Discipline	Industrial Engineering	
Contract Role(s)/Brief Description of Responsibilities		SUE/Utility Coordination. T.J. has over 16 years' experience in successfully managing numerous SUE projects specializing in transportation and roadway projects. As the Lead Professional for Subsurface Utility Engineering, he is currently overseeing the completion of LADOTD and MDOT retainer contracts along with numerous other public and private client projects. He has thorough knowledge of the Subsurface Utility Engineering standards listed in CI/ASCE Standard 38- 02 and is familiar with all SUE technologies and equipment, including but not limited to, ground penetrating radar (GPR), vacuum excavation, and numerous other types of geophysical locating equipment. He also has extensive experience managing and overseeing utility coordination and design projects.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
05/21 – 03/24	S.P. No. H.003931.5, Calcasieu River Bridge (HBI); LADOTD; Calcasieu Parish, LA — Project Manager/Engineer of Record. Responsible for all Subsurface Utility Engineering and Utility Coordination. Oversaw all Quality Level B and Quality Level A SUE services and performed QA/QC on the topographic survey submitted to LADOTD to ensure compliance with ASCE 38-02. Reviewed all utility coordination procedures including conflict matrix and conflict plan creation.			
11/21 – 02/22	S.P. No. H.014670.5, LA 1270: LA 77 to End of Control Section; LADOTD; Iberville Parish, LA — Contract administrator/ Engineer of Record. Responsible for all Subsurface Utility Engineering Quality Level B services and performed QA/QC on the topographic survey performed by LADOTD to ensure compliance with ASCE 38-02. LADOTD Location and Survey field staff performed the topographic survey and we ensured a smooth working environment for data collection.			
03/21 – 01/22	Move Ascension, LA 44 & Parker Roundabout, Subsurface Utility Engineering; Ascension Parish Government; Ascension Parish, LA — Lead Professional. Provided Subsurface Utility Engineering for the LA 44 & Parker Roundabout as part of the Move Ascension Program. Quality Level B services were provided throughout the project limits to determine the horizontal location of utilities to assist with the roadway design. Quality Level A test holes were also provided to provide vertical information where utilities would conflict with roadway or drainage design.			
05/23 - Ongoing	Contract 44-17598, Contract 44-19336, Rural Bridge Replacement Initiative, Ph I and Ph II (87 bridge structures); LADOTD; Districts 04, 05, 08, 58 - Principal/Practice Leader. The scope for phases I and II included the replacement of 87 bridges throughout fourteen Parishes in Northern Louisiana. The bridge lengths ranged from 20' to 340'. TJ leads the coordination effort with the engineering, environmental, and survey discipline leaders to ensure effective project delivery.			

03/24 – Ongoing	S.P. No. H.015554, Loyola Dr: 31st St – W Loyola Resurface; City of Kenner, LA – Principal / Practice Leader. TJ coordinates between engineering and design project managers and is responsible for project execution for this Pavement Preservation project located in Jefferson Parish, LA.
05/23 - Ongoing	Contract 44-25027, Infrastructure Investment and Jobs Act (IIJA) Off System Bridge Program District 08; LADOTD; District 08, LA — Principal/Practice Leader. This contract includes the replacement of 12 Off System Bridges and their adjacent roadways throughout central Louisiana. The existing bridge lengths range from 40' to 135' and the sites include cross drains, box culverts, and RC slab span bridges. TJ coordinates with the engineering, environmental, and survey discipline leaders to ensure effective project delivery.
05/24 – Ongoing	23-EN-HC-0029, Highland Road at Pecue Lane; City of Baton Rouge and Parish of East Baton Rouge; East Baton Rouge Parish, LA — Principal/Practice Leader. Responsible for ensuring quality management plans, and quality of work across engineering design, surveying, and environmental disciplines for this multi-discipline project. Project scope includes the analysis of the existing 2-way stop condition intersection and construction plan development for intersection improvements. TJ is accountable for the development of Project Management Plan and Work Plan submitted to the client.
05/23 - 09/23	S.P. No. H.010557, Lajaunie Rd./Lateral I Bayou St. Clair; LADOTD; Lafayette Parish, LA - Practice Leader. TJ led the coordination effort between the engineering team and LADOTD to ensure successful delivery of Final Tracings submittal following Parish- specific requests for this Off-System Bridge project. TJ also oversaw the coordination between Parish and TBS surveying to ensure ROW staking was completed to Parish's requirements.
02/22 – 05/22	Move Ascension Parker Road and LA 929 Widening; Ascension Parish Government; Ascension Parish, LA — Lead Professional. Provided Subsurface Utility Engineering for the Parker Road and LA 929 Widening project as part of the Move Ascension Program. Quality Level B services were provided throughout the project limits to determine the horizontal location of utilities to assist with the roadway design. Quality Level A test holes were also provided to provide vertical information where utilities would conflict with roadway or drainage design.

	Firm	Vectura Consulting Services, LLC			
	Name	Brin Ferlito, PE, PTOE		Years of Relevant Experience with this Employer	10
	Title	Traffic Engineering		Years of Relevant Experience with Other Employer(s)	27
Degree(s)/Years/Specialization			BS/1988/Civil Engineering		
Active Registration Number/State/Expiration Date			PE.0025383/LA/ 09.30.2027		
Year Registered	1993	Discipline	Civil		
Contract Role(s)/Brief Description of Responsibilities			Traffic Engineering		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
07/21 - Ongoing	H.007160 - 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 LADOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.				
07/19 – Ongoing	MOVEBR New Capacity Projects Program Management (Baton Rouge, LA) Brin is the lead traffic engineer for entire the New Capacity Projects program management team. All traffic engineering scope of services, traffic / speed data collection, traffic design studies, safety studies, and traffic signal design plans are reviewed by Brin. She is in constant communication with the Traffic Engineering staff of LADOTD and EBR Traffic Engineering Department. She understands the current requirements for all aspects of traffic engineering projects.				
07/19 – Ongoing	H.004791 LADOTD 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 LADOTD.				
09/20 – 12/21	H.010960.5 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 LADOTD Traffic Engineering Manual Crosswalk Guidelines followed by traffic signal design plans based on LADOTD requirements. The study included traffic and pedestrian traffic data collection, a speed study, crash analyses, intersection analyses and progression analyses. The signal plans included pedestrian signal equipment, signal timing parameter calculations, crosswalk striping, signs, LADOTD pay items, estimated quantities, and construction cost. Brin also assisted with the Parish with the LADOTD Permit Request for Intersection Control Devices on a State ROW.				

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 LADOTD requirements. Brin assisted with vehicle and pedestrian data collection, spot speed study, analyzed 3-year intersection crash data and developed signal timing for pedestrians to cross the street. From the design study, a set of Traffic Signal Modification Plans were developed to implement the recommended alternative.
08/15-05/17	Enhancing Guidance for Evacuation Time Estimate Studies (Nuclear Regulatory Commission Rockville, MD) 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	H.002301 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 LADOTD 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 the striping plans and sequence of construction plans which included temporary signal equipment placement due to lane shifts during construction.
07/12-03/14	EBR 03-TS-CI-0026 CE&I 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 LADOTD ITS division for fiber splicing into interstate I-12 fiber backbone and ATM / EOC building. She processed all monthly tasks in EBR formats as well as well as all items on the EBR project closeout checklist.
07/08-09/09	SPN 013-05-0043 CE&I for EBR Traffic Signal Systems Phase IV Construction (Baton Rouge, LA) Brin was the Project Resident Engineer for LADOTD 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 LADOTD Materials Lab, developed change orders and monthly contractor pay estimates. She also coordinated with LADOTD ITS division for fiber splicing into Airline Highway fiber backbone and ATM / EOC building. She processed all monthly tasks electronically in LADOTD Site Manager and in EBR required formats as well as all items on the LADOTD Project Closeout Checklist including the 2059 Report.

	Firm		Vectura Consulting Services, LLC			
	Name		Laurence Lambert, PE, PTOE, PTP		Years of Relevant Experience with this Employer	10
	Title		Traffic Engineering/Maintenance of Traffic		Years of Relevant Experience with Other Employer(s)	18
Degree(s)/Years/Specialization			BS/1997/Civil Engineering MS/2006/Civil Engineering (Transportation focus) MBA/2010			
Active Registration Number/State/Expiration Date			PE.0029901/LA/03.31.2028			
Year Registered		2001	Discipline		Civil	
Contract Role(s)/Brief Description of Responsibilities			Traffic Engineering/Maintenance of Traffic			
Experience Dates (mm/yy - mm/yy)		Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
12/23-08/24		H.972501.1 South Range Road Operations Study Stage 0 Feasibility Study (Tangipahoa Parish, LA) Laurence was the Principal in Charge for a Stage 0 for the Regional Planning Commission (RPC) to evaluate operating conditions of the S. Range Road corridor that included the intersection with Old Covington Highway. The corridor study included traffic data collection, pedestrian / bicycle counts, safety analysis, existing conditions analysis and alternative analysis. The results were summarized in a Stage 0 report.				
05/23 – 05/24		US 190B/Fremaux Ave Sidewalk Feasibility Study (Slidell, LA) Laurence was the principal in charge for a sidewalk feasibility study that included data collection, safety analysis, alternative analysis, and a final report.				
07/23 – 11/23		H.015504.5 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 LADOTD.				
04/23 – 10/23		H.014591.5 I-12: 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 LADOTD.				
04/18 – 12/21		H.010960.5 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.				
01/23 – 02/24		H.011504 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.				

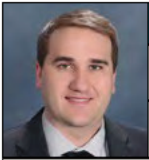
10/21—03/22	H.013256.5 I-10 ITS Scott to Lake Charles (Lead Traffic Engineer) Laurence was the lead traffic engineer for a Level 2 Traffic Management Plan (TMP) for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CAT Scan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis and public information strategies.
09/20-04/21	MOVEBR LA 67 (Plank Road) Enhancement Project (Baton Rouge, LA) - Laurence was the project manager to enhance transit, bicycle, and pedestrian mobility on Plank Road that required both City-Parish and LADOTD approval. Laurence evaluated the proposed pedestrian crossings on LA 67 using the LADOTD Traffic Engineering Manual pedestrian warrants found in Section 3B.2. Laurence also developed traffic operations evaluation of the traffic study which included traffic signal timing evaluations.
02/20 – 09/21	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 LADOTD was required. Vectura collected, turning movement counts, 85% speed data, travel time runs, queue measurements, field observations, verification of Traffic Signal Inventories, and bicycle / pedestrian / transit observations.
10/17-10/18	H.013025 LA 182 (University Avenue) Corridor Planning Study (Lafayette, LA) Laurence was the lead transportation engineer for a Corridor Planning Study for LA 182. The scope focused on improving safety and mobility for pedestrian, bicycle, and transit users. Laurence collected AM & PM peak vehicle turning movement counts as well as pedestrian and bicycle counts. Laurence coordinated with the Acadiana Planning Commission to develop growth rates and design year volumes. Laurence then performed Highway Capacity Manual analysis for 5 intersections along the intersection analyses for the signalized and roundabout controlled alternatives. Included in the study was a safety analyses of five intersections and the intermediate segments. Based on the results of the safety analysis, Laurence provided design criteria to the design team for improving safety of pedestrians, bicycles, and vehicles.

	Firm	Vectura Consulting Services, LLC		
	Name	Reece Rodrigue, PE, PTOE, RSP1	Years of Relevant Experience with this Employer	5
	Title	Traffic Engineering	Years of Relevant Experience with Other Employer(s)	7
Degree(s)/Years/Specialization		BS/2013/Civil Engineering		
Active Registration Number/State/Expiration Date		PE.0042074/LA/03.31.2028		
Year Registered	2017	Discipline	Civil	
Contract Role(s)/Brief Description of Responsibilities		Traffic Engineering		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
04/21 - Ongoing	MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA Reece is a project engineer for the design of traffic signal upgrades at 10 intersections. This project included a traffic design report, preliminary and final plans for traffic signals that included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. The design also included traffic signal synchronization signal timing and pedestrian signal timing.			
06/23 - Ongoing	H.012845.1 Connected & Autonomous Vehicles (C/AV) Team and Working Group Support Reece is a member of the team to develop new policies and legislation related to C/AV.			
06/23 - Ongoing	H.011507.1 Monroe Phase 3 SEA Reece visited the project site to document the controller type and detection needs at each signalized intersection within the right-of-way.			
07/21 - Ongoing	H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge, Louisiana) Reece is part of the team responsible for Construction Engineering and Inspection. Reece has reviewed the signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Reece, with the LADOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.			
01/23 – 02/24	H.011504 Alexandria ITS Phase 2 Reece was the project engineer for a site visit, System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan.			
06/22 – 02/23	H.012381.5 ITS Fiber Management System Data Collection Reece performed the field observations for 40 sites to verify the ITS FMS and inventory services.			
04/20 - Ongoing	H.004791 LADOTD Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project (Belle Chasse, LA) Reece is responsible for designing the temporary traffic signal for the intersection of LA 23 at Engineers Rd. for eight phases of construction per the anticipated sequence of construction. Temporary pole location and heights were recommended for placement for use for all construction phases. Vehicle clearance interval calculations were conducted for each phase in accordance with LADOTD and ITE guidance. Reece is responsible for producing the traffic impact analysis portion of the Traffic Management Plan that was also used in planning for the permanent and temporary signal timing plans. Reece was also responsible for producing the permanent signal plans for the LA 23 intersections at Engineers Road and at Burmaster Street. He evaluated stop bar locations, calculated vehicle, and pedestrian clearance intervals, designed the railroad preemption sequence for both at-grade crossings, designed the wiring layout, and developed the interconnect plan. In addition, Reece was responsible for reviewing and approving shop drawings that were submitted by the contractor for use in construction.			

01/21 – 05/21	H.013256 - I-10 ITS Scott to Lake Charles (Lafayette, Acadia, and Jefferson Davis Parishes) Reece was a member of the subconsultant team who was tasked with reviewing the ITS plans for 15 sites along I-10 where CCTV cameras were being installed. Reece was responsible for measuring anticipated construction quantities and producing a cost estimate for said quantities by using LADOTD's Bid Tabulation and Cost Estimating Tool.
09/20 – 12/21	H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish) Reece is an essential design engineer, who is assisting in the production of the temporary signal design associated with the sequence of construction for the roundabout at US 171 at Boone St. He conducted a thorough analysis of the US 171 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.
09/20 – 12/21	H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish) Reece is a design engineer, who assisted in the production of the temporary signal design associated with the sequence of construction for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction phases. He assisted in calculating the temporary pole heights, determining the placement location for the temporary poles for each phase, measuring and calculating clearance intervals. Reece conducted a thorough analysis of the LA 30 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.
11/21 – 12/21	Emergency Street Light and Traffic Sign Assessment (New Orleans, LA) In response to the damage caused by Hurricane Ida, Reece inspected streetlights and street signs to report damage using the City's ArcGIS Online Organization and ArcGIS Field Maps app. The assessment area was approximately 2.5 miles by 2 miles area in the City of New Orleans.
02/20 – 09/21	College Drive Corridor Enhancement from Perkins Road to I-10 (Baton Rouge, LA) Reece was the task leader for organizing and formatting the data collection of the College Drive project limits. Tasks included in data collection were 7-day tube counts, intersection turning movement counts, approach tube counts, unmet demand observations, driveway counts, travel time runs, pedestrian / bicycle counts, and weaving counts.

	Firm	Wiss, Janney, Elstner Associates, Inc.			
	Name	Leonard Phelps		Years of Relevant Experience with this Employer	42
	Title	SSPC Specialist		Years of Relevant Experience with Other Employer(s)	8
Degree(s)/Years/Specialization		BS/2009/Mechanical Engineering BS/1979/Biology BA/1979/Chemistry MS/1991/Chemistry			
Active Registration Number/State/Expiration Date		SSPC/AMPP Certified Protective Coatings Specialist, Certification ID# 2021-014-012, expires 12/31/2029			
Year Registered	2021	Discipline	Mechanical Engineering		
Contract Role(s)/Brief Description of Responsibilities		SSPC Specialist. Len will serve as the Primary Coating Inspector.			
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
08/25-Ongoing	Livingston Avenue Bridge Replacement, Albany, NY: Project Advisor for developing a coating system for bolted connections and assisting with constructability reviews.				
02/25-Ongoing	Rehabilitation of I-80/94, Indiana Toll Road, Structure 1A-1, Hammond, IN: During the construction, reviewed submittal documents and advised on coating applications and limitations for low temperature applications as part of a new multi-coat paint system and installation of structural steel repairs.				
11/24-03/25	Iams Hill Road over Tenmile Creek, Truss Bridge Steel Evaluation, Marianna, PA: WJE technicians extracted four samples from the superstructure and performed metallographic and chemical analyses to evaluate the steel properties and whether metallizing or galvanizing the steel was feasible. Tensile testing to determine the yield strength and ultimate strength of the samples was also performed. Lead Chemist responsible for assessing the viability of galvanizing and metallizing the bridge elements represented by the samples and providing guidance on the application of a coating system.				
05/22-10/22	Los Alamos Canyon Bridge, Los Alamos, NM: As the Lead Chemist, advised on bridge coating repair, which included coating assessment and coating repair specification development.				
08/21-Ongoing	I-255 Jefferson Barracks Bridge over the Mississippi River, Emergency Repairs, Mehlville, MO: The twin structures' main span consists of a 910-ft long tied-arch with a steel box arch and a 12-foot-deep steel I-shaped tie girder. WJE completed bridge rehabilitation plans for both structures with construction ongoing. As Lead Chemist, assisted with bridge cable specification development and guidance regarding metallizing of the hanger cables that had experienced corrosion in the splash zone. The specification included trial testing to determine the proper blast media to prepare the surface without substantially removing the existing galvanized coating.				
5/19-09/20	I-265, Lewis and Clark Bridge, East End Crossing P3 Project, Prospect, KY and Utica, IN: Twin-tower, cable-stayed bridge that spans the Ohio River. Investigated a coating peeling failure of the cable-stayed anchorages. Developed a protocol to remove poorly bonded existing coating and retain well-bonded existing coatings. Observed mock-up implementation of protocol and augmented procedures.				

04/15-Ongoing	I-20/I-55 Bridge over the Pearl River, Fatigue Retrofits, Jackson, MS: The twin I-20/I-55 structures consist of precast prestressed concrete girder approach spans and a 3-span continuous welded plate girder river crossing with a maximum span length of 130 feet. WJE was retained to develop and install fatigue retrofits to address distortion-induced cracking and to correct observed section loss in the girders at the abutments. As Lead Chemist, provided guidance for the surface preparation of the substrate, which included lead containing coatings and painting of the bridge repairs. Advised on bridge coating repair issues including the removal of a holding primer prior to the application of a permanent coating system.
06/11–04/14	Reeds Island Bridge, Hilo, HI: Served as Primary Coating Inspector and Lead Chemist to prepare specifications for preparation and shop painting of new galvanized steel, and for the field repair and painting of site elements in the prevailing damp, wet environment due to average rainfall of about 130 inches per year and moisture from the waterway below. Led efforts to perform site inspections of shop and field surface preparation and coating application.
10/12–11/12	Iowa Department of Transportation, Various Locations: Served as a Primary Coating Advisor and Reviewer for the inspection and evaluation of weathering steel patinas for thirty-one bridges as part of research project to evaluate the performance of weathering steel bridge structures to identify types of structures that are most vulnerable to chloride contamination, identify locations on individual structures that are most susceptible, identify possible testing methods or inspection techniques, evaluate the effectiveness of water washing, and develop prioritization for washing based on the type and condition of the structure.
09/05–10/07	State of Hawaii, Aloha Stadium, Honolulu, HI: Primary Coating Inspector and Lead Chemist responsible for assessing the condition of the substrate and extant coatings applied to structural weathering steel of the Aloha Stadium. Subsequently developed specifications for surface preparation and application of coating system (zinc-rich primer; epoxy stripe, filler, and intermediate; and fluoropolymer finish) of the salt contaminated structural weathering steel. Performed numerous site inspections of multiple phases of work required to prepare and coat the steel in a salt environment.
03/99–08/99	Chicago Skyway, Chicago, IL: Project Manager and Primary Coating Inspector performing a condition assessment of existing coatings and underlying steel substrate of the Calumet Bridge, viaducts, overpasses, and ramps. Adhesion testing, coating thickness measurement, review of substrate condition, and assessment of original substrate preparation were done.

	Firm	Wiss, Janney, Elstner Associates, Inc.		
	Name	Curtis Schroeder, PE, SE, AWS, NHI, NDT	Years of Relevant Experience with this Employer	3
	Title	Sampling	Years of Relevant Experience with Other Employer(s)	8
Degree(s)/Years/Specialization		BS/2009/Civil Engineering MS/2011/Civil Engineering PhD/2018/Civil Engineering		
Active Registration Number/State/Expiration Date		PE WI, License No.: 44013/expires 07/26 Additional active licenses: IL		
Year Registered	2015	Discipline	Civil Engineering	
		NHI 130078 - Fracture Critical Inspection Techniques of Steel Bridges		
		NHI 130055 - Safety Inspection of In-Service Bridges (& Refresher 130053)		
		AWS Certified Welding Inspector		
		NDT Ultrasonic Technician - Level II		
		NDT Magnetic Particle Testing - Level II		
Contract Role(s)/Brief Description of Responsibilities		Sampling. Dr. Schroeder will perform structural engineering including bridge inspections; nondestructive testing, focused on ultrasonic testing (UT), phased array UT (PAUT), and magnetic particle testing (MT); sampling; load rating; and welding procedure evaluations.		
Experience Dates (mm/yy - mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
10/24–Ongoing	Chicago Skyway, Stony Island Anchor Bolt Inspection and Analysis, Chicago, IL: Project Manager and Team Leader for the project, which included a load rating inspection, anchor bolt inspection, load rating of the steel superstructures and steel substructures, and structural analysis of the anchor bolts at the Chicago Skyway Stony Island Avenue Ramp structures. Repair work resulting from the findings is ongoing. The structures consist of multiple units to carry two ramps over various local streets, the Norfolk Southern Railroad, and, for one of the ramps, the mainline of the Chicago Skyway. Led the visual inspection of all steel members and components and performed ultrasonic testing and field hardness testing on the anchor bolts. Section loss documentation was performed using physical measurement and/or ultrasonic testing.			
10/23–01/24	Fall 2023 Pin Inspections, IN: Project Manager for ultrasonic testing (UT) project to evaluate the fitness for service of the steel pins and associated hanger components or pinned connections on six bridges.			
03/23 - Ongoing	T-1 Steel Weld Inspections on Four Bridges, MO: Training, testing, and Quality Assurance (QA) for UT of T-1 steel welds on four bridges. Calibration of paint effects on UT scans; repairs of rejectable welds.			
01/23–06/24	I-57 over Mississippi River, Cairo, IL: Project Manager for UT inspection of weld splices in nonredundant steel tension truss members fabricated with ASTM A517 (T-1) steel; located welds by eddy current testing; developed alternative UT procedures to inspect welds within the bolted gusset plate connections; and performed UT inspection.			

12/22–08/25	T-1 Steel Weld Assessment, LA: Training, testing, and QA for UT of T-1 steel welds on three bridges; reviewed phased array ultrasonic testing (PAUT) scan results for characterization of rejectable welds; calibration of paint effects on UT scans; repairs of rejectable welds.
11/21–Ongoing	Susquehanna River Railroad Bridge, Havre de Grace, MD: Project Engineer assisted with UT and PAUT inspection of 45 pinned connections of deck truss railroad bridge with known defect indications. In 2024, assisted with limited, in-depth UT surveys on 70 transfer pins. In 2025, another 63 pin connectors were examined for which the analysis and reporting are ongoing.
09/21–12/21	Water Street Bridge, Pittston, PA: Project Engineer for the UT of ten transfer pins in steel through-truss bridge.
08/21–10/21	Black Hawk Bridge, Lansing, IA: Project Engineer responsible for UT and PAUT of 21 pinned connections in a steel through truss and suspended spans. Assisted with fracture critical inspection of steel through-truss spans.
07/21–08/21	Hernando de Soto Bridge, Memphis, TN: Project Engineer for the fracture investigation of a tie girder fabricated using T-1 steel in one of two tied arches. Performed UT, PAUT, and wet fluorescent magnetic particle testing (MT) of removed fracture specimen and steel cores. Performed QA verification of PAUT inspection procedure.
05/21–01/22	SR 66 over I-64, Carefree, IN: Team leader for Special Inspection of bridge containing 18 pinned hinge connections, including visual inspection, ultrasonic testing, and magnetic particle testing. Assisted with development and implementation of repairs for cracked pin plate fillet welds.
04/21–Ongoing	Hawthorne Bridge, Portland, OR: Project Engineer assisting with UT and wet fluorescent MT inspection of vertical lift bridge trunnions, including through-bore examinations. In 2024, performed follow-up MT on observed cracking, which WJE repaired in 2025.
01/21–05/21	US 136 over Wabash River, Covington, IN: Team Leader for Special Inspection of a post-tensioned, concrete trapezoidal box girder bridge that included visual inspection of epoxy-injected cracks in the web wall, ground penetrating radar (GPR) inspection to locate vertical shear reinforcement, and concrete core removal for testing of concrete strength.
01/21–04/21	Franklin Street Bridge, Michigan City, IN: Project Engineer assisting with the development of tread casting crack repairs and performing visual and MT inspection of field-welded repairs.

Section 17

IDIQ Contract for Bridge Load Rating Services, LADOTD

**Relevance to LADOTD Bridge
Preventative Services IDIQ:**
Bridge Condition Assessment/Load
Rating, Preventative Maintenance
and Repair, Bridge Rehabilitation
Recommendations



17. Firm Experience				
Firm Name	AECOM Technical Services, Inc.		Past Performance Evaluation Discipline(s)*	Bridge, Road, Traffic, Environmental
Project Name	LADOTD Bridge Preventative Maintenance IDIQ		Firm responsibility (prime or sub?)	Prime
Project Number	H.001970, H.011993, H.016490, H.013832, H.015519	Owner's name	LADOTD	
Project Location	Statewide	Owner's Project Manager	Brian Allen, PE	
Owner's Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 70802 Phone: 225.379.1840 Email: brian.allen@la.gov			
Services Commenced by This Firm (mm/yy)	06/23	Total Consultant Contract Cost (\$1,000's)	\$3,453	
Services Completed by This Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by This Firm (\$1,000's)	\$3,423	

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

- ✓ Bridge Design
- ✓ Bridge Rehabilitation
- ✓ Preventative Maintenance and Repair
- ✓ Bridge Inspection
- ✓ Condition Assessment /Load Rating
- ✓ Roadway/Traffic/MOT Design
- ✓ Environmental Permitting
- ✓ NDT/Evaluation

The AECOM Team currently holds a LADOTD Bridge Preventative Maintenance IDIQ contract to provide "as-needed" support to LADOTD Bridge Division for the development of transportation bridge replacement, bridge evaluation, bridge maintenance & repair, and emergency design services. This work also included roadway, traffic and environmental design services as necessary to support the bridge design. The following projects highlight our team's diverse and relevant **bridge design and rehabilitation design experience**:

- ▶ **LADOTD (H.001970), LA 561 Bridge Replacement over Boeuf River, Hebert, LA.** AECOM performed preliminary roadway and bridge design for the replacement of an existing 3-span truss bridge over the Boeuf River in Richland and Caldwell Parishes. **AECOM worked integrally with LADOTD project manager, geotechnical, environmental, and district staff to confirm approach roadway, drainage, right-of-way, utility, and bridge requirements to replacement this structurally deficient bridge.** AECOM is currently scoping final design services with the LADOTD/PM, Dana Feng and is expecting to get NTP later this fall.

- ▶ **LADOTD (H.011993), LA 10 Bridge over Bayou Carron, St. Landry Parish, LA.** AECOM performed final bridge design services for the replacement of an existing truss bridge over Bayou Carron. AECOM worked integrally with the LADOTD/PM, Dana Feng, geotechnical, roadway, and district staff to develop final design calculations, bridge quantity cost estimates, and construction documents for this 3-span replacement bridge using LG36 precast, pretensioned concrete girders.

- ▶ **LADOTD (H.013832), LA 6 Red River Bridge, Grand Ecore, LA.** AECOM is providing Stage 0/1 design services to develop and evaluate potential deck rehabilitation alternatives to arrest bridge deterioration and extend the bridge service life for this 1879-ft, multi-span, steel plate girder structure that includes a 975-ft long, two-girder 3-span main unit.

- ▶ **LADOTD (H.015519.6) SMITH ROAD OVER RED CHUTE BAYOU, Bossier Parish, LA.** AECOM's subconsultant, Forte & Tablata, Inc. is providing construction related engineering services and documentation review for the construction of an off-system, bridge replacement project in Bossier Parish, LA.

- ▶ **LADOTD (H.016490), LA 3032 Bridge Resurfacing, Shreveport, LA.** AECOM is performing a condition site assessment and prepare preliminary and final design plans for this bridge preventative maintenance project. AECOM will prepare a TMP, detailed MOT plans, bridge deck resurfacing, and expansion joint replacement plans.



AECOM Team: Gary Maji, Daniel Boyd, Jonathan McDowell, Gregory Trahan, Sarah Elsayah, Jonathan Giardina, Derek Chisholm, Jonathan Vavasseur

17. Firm Experience					
Firm Name	AECOM Technical Services, Inc.		Past Performance Evaluation Discipline(s)*	Bridge, Road, Traffic, Environmental	
Project Name	LADOTD Bridge Preventative Maintenance IDIQ (Bridge Bundle)		Firm responsibility (prime or sub?)	Prime	
Project Number	H.016313-H.016317, H.016322-H.016327	Owner's name	LADOTD		
Project Location	Statewide		Owner's Project Manager	Ryan Percle, PE	
Owner's Address, Phone, Email		1201 Capitol Access Road, Baton Rouge, LA 70802 Phone: 225-379-1502 Email: Ryan.Percle@la.gov			
Services Commenced by This Firm (mm/yy)		02/25	Total Consultant Contract Cost (\$1,000's)		\$1,825
Services Completed by This Firm (mm/yy)		Ongoing	Cost of Consultant Services Provided by This Firm (\$1,000's)		\$1,825

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

- ✓ Bridge Design
- ✓ Roadway/Traffic/MOT Design
- ✓ Condition Assessment
- ✓ Environmental Permitting

As part of our LADOTD BPM IDIQ contract, **AECOM is providing multi-disciplinary design services for the replacement of (11) bridges in central and southeastern LA within Districts 08, 61, and 62. All of these on-system bridges are structurally deficient, functionally obsolete, and are in need of replacement.**

The AECOM team worked with the LADOTD/PM, James Fogleman, to identify and confirm the scope of work for this LADOTD/AECOM blended team project. LADOTD staff provided program management, design survey, geotechnical, and environmental review and oversight while the **AECOM lead the environmental permitting, roadway, hydraulics, maintenance of traffic, structural design, and cost estimating efforts.** To help expedite the preliminary and final design efforts, AECOM coordinated with LADOTD to identify project site criteria (i.e. Cat-Ex clearances only, no ROW requirements, TMP1 or 2, use of tangent guardrail, replacements using CBCs, etc.) to streamline the design and plan review process.

AECOM Team: Gary Maji, Daniel Boyd, Jonathan McDowell, Greg Trahan, Jonathan Giardina, Derek Chisholm, Jonathan Vavasseur, Sreeni Bollu, Myles Martin

The (11) bridge replacements were bundled into (4) construction packages and delivered using a staggered preliminary and final design scheduling approach. The design teams met weekly to discuss current status and recent LADOTD review comments to help facilitate the plan development creating an economies of design scale to minimize design consultant fees.

The development of the environmental permitting process followed the design bundling strategy to help facilitate and streamline the confirmation of the environmental resources, development of the solicitation of view submittals, and the packaging of the categorical exclusion documentation. The AECOM team developed and utilized a standard approach to the environmental report preparation to help minimize the coordination and multi-agency review processes required to obtain the necessary clearances prior to the start of the final design process.

Throughout the preliminary and final design process, AECOM coordinated their design approach, current assumptions, and discussed the bundling schedule with the LADOTD/PM to communicate design progress and identify potential schedule impacts that could create any substantial delays.



"AECOM's performance is top notch in regards to the plan development process, communicating questions, and being prompt in requesting for information."

James Fogleman, PE, Previous LADOTD PM

Firm Name	AECOM Technical Services, Inc.			Past Performance Evaluation Discipline(s)*	Bridge, Traffic, Road
Project Name	LADOTD Bridge Preventative Maintenance IDIQ (LA 641 Bridge Over I-10)			Firm responsibility (prime or sub?)	Prime
Project Number	H.015603	Owner's name		LADOTD	
Project Location	St. James Parish, LA		Owner's Project Manager		Phillip Grasso, PE
Owner's Address, Phone, Email		1201 Capitol Access Road, Baton Rouge, LA 70802 Phone: 222.379.1412 Email: phillip.grasso@la.gov			
Services Commenced by This Firm (mm/yy)		01/25	Total Consultant Contract Cost (\$1,000's)		\$195
Services Completed by This Firm (mm/yy)		09/25	Cost of Consultant Services Provided by This Firm (\$1,000's)		\$165

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

- ✓ Bridge Rehabilitation
- ✓ Preventative Maintenance and Repair
- ✓ Bridge Inspection
- ✓ Condition Assessment/Load Rating
- ✓ Roadway/Traffic/MOT Design

As part of our LADOTD BPM IDIQ contract, AECOM is providing bridge design and preventative maintenance solutions for the repair of the LA 641 Bridge over I-10, in St James Parish.

In Spring 2023, an over-height equipment trailer impacted a portion of the LA 641 bridge spanning across the WB lanes of I-10 bridge. The trailer damaged several precast, pretensioned concrete girders, creating numerous concrete delaminations, spalls, and severed several pretensioning strands at one location.

Scope of work included a detailed structure inspection, development of a comprehensive structure condition summary, existing review of as-built plans, computation of existing and as-designed bridge load ratings, and the development of final bridge rehabilitation plans to extend the bridge service life for this 1584-ft, multi-span, pretensioned concrete line girder structure.

As part of the bridge inspection and condition summary, the AECOM team developed a maintenance-of-traffic plans and a Transportation Management Plan (TMP) for review and approval of the LADOTD/PM and the District 61 Traffic Engineer.

Existing and as-designed bridge load ratings were performed in accordance with the LADOTD Bridge Design and Evaluation Manual and applicable provisions of the AASHTO Manual of Bridge Evaluation using AASHTOWARE Bridge Rating (BrR) software. Design coordination with LADOTD's Structures Maintenance and Inspection team to confirm the girder modeling assumptions is anticipated as this project is completed.

The design and development of the girder repair details and the final design plans required extensive design coordination with the LADOTD bridge division and concrete rehabilitation vendors to confirm concrete removal, preparation, epoxy injection and carbon fiber reinforced polymer (CFRP) repair details for the reconstruction of the superstructure over the I-10 WB lanes. The team worked with the LADOTD/PM to confirm the required project specific special provisions and developed a detailed construction timeline and identified a temporary roadway detour using the existing I-10 mainline off and on-ramps during the nighttime construction activities.



“During the entire task order and plan development process working with AECOM went smoothly. They responded promptly to all requests.”
Phillip Grasso, PE, DOTD PM

AECOM Team: Gary Maji, Daniel Boyd, Jonathan McDowell, Sarah Elsawah, Myles Martin, Josh Guitreau, Landon Whitton, Avery Prevot, Laurence Lambert (Vectura)

Firm Name	AECOM Technical Services, Inc.			Past Performance Evaluation Discipline(s)*	Bridge, Traffic
Project Name	Moveable Bridge Inspection and Rehab Design			Firm responsibility (prime or sub?)	Prime
Project Number	H.011973.5, H.012737.5, H.012044.5, H.011969.5, H.011988.5	Owner's name		LADOTD	
Project Location	Multiple Locations, LA		Owner's Project Manager		Fallon Farber
Owner's Address, Phone, Email		1201 Capitol Access Road, Baton Rouge, LA 70802; 225-379-1986; fallon.farber@la.gov			
Services Commenced by This Firm (mm/yy)		01/25	Total Consultant Contract Cost (\$1,000's)		2,847
Services Completed by This Firm (mm/yy)		Ongoing	Cost of Consultant Services Provided by This Firm (\$1,000's)		2,349

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

- ✓ Bridge Inspection and Condition Assessment
- Recommendations for Rehabilitation/Replacement
- Movable Bridge Design

AECOM is providing in-depth bridge inspection, conceptual design and alternative analysis, load rating design/analysis, and preliminary and final design services for the following movable structures:

- ▶ **H.011969, LA 1264 over Inner Harbor Navigational Canal**, Ted Hickey Bascule Span in Orleans Parish, LA.
- ▶ **H.012044, LA 384 over Intracoastal Waterway**, Grand Lake Pontoon Span in Cameron Parish, LA
- ▶ **H.011988, LA 86 over Bayou Teche**, Duperré Bascule Span in Iberia Parish, LA
- ▶ **H.011973, LA 315 over Intracoastal Waterway**, DuLarge Bascule Span in Terrebonne Parish, LA
- ▶ **H.012737, LA 433 over Bayou Bonfouca**, Bayou Bonfouca Swing Span in St Tammany Parish, LA.

As part of the initial task order efforts, AECOM performed NBIS In-Depth inspections of all five structures including structural, mechanical and electrical inspection of the movable span as well as structural inspection of the fixed spans and architectural and MEP inspection of the operator's houses. **Detailed inspection reports along with LRFR bridge load ratings were developed to assist the team with the identification, preparation, and evaluation of bridge rehabilitation and/or replacement alternatives** for DOTD review and consideration to advance into preliminary design.



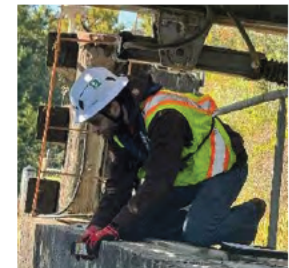
The load rating results were used to identify the need for structural repairs to provide a 30-year service life following rehabilitation.

As part of one of our DOTD IDIQ Contracts, AECOM team performed emergency inspection, structural assessment and materials testing, evaluation and design services for the repairs of the LA315 DuLarge Bascule Bridge in order to re-open this load posted structure to traffic.



"AECOM has worked with DOTD Bridge Design, Bridge Maintenance, District, and District Bridge Engineer to work towards completing the first inspection. They are very responsive, provide accurate advice, and ensure deadlines have been met to ensure project stays on track."

Fallon Farber, PE DOTD PM



AECOM Team: Daniel Boyd, Landon Whitton, Sarah Elsawah, Jason Zimpfer, Josh Guitreau, Myles Martin, Camden Pfeiffer

Firm Name	AECOM Technical Services, Inc.		Past Performance Evaluation Discipline(s)*	Bridge	
Project Name	Virginia DOT (VDOT) Statewide Bridge Services Contract			Firm responsibility (prime or sub?)	Prime
Project Number	N/A	Owner's name	Virginia Department of Transportation		
Project Location	Statewide in Virginia		Owner's Project Manager	Todd Marshall, PE	
Owner's Address, Phone, Email		731 Harrison Avenue, Salem, VA 24153, Phone: 540-387-5460, Todd.Marshall@VDOT.Virginia.gov			
Services Commenced by This Firm (mm/yy)		09/22 (current term)	Total Consultant Contract Cost (\$1,000's)		\$ 5,681
Services Completed by This Firm (mm/yy)		Ongoing	Cost of Consultant Services Provided by This Firm (\$1,000's)		\$ 4,765

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

- ✓ Bridge Design
- ✓ Bridge Rehabilitation
- ✓ Preventative Maintenance and Repair
- ✓ Bridge Inspection
- ✓ Condition Assessment/Load Rating
- ✓ Roadway/Traffic/MOT Design



For more than 30 years, AECOM has provided engineering service for bridge repair, maintenance, rehabilitation, and design on a task order basis for routine and emergency projects across all nine of Virginia's transportation districts. The following projects highlight our team's diverse and relevant bridge engineering experience:

Bridge Deck Evaluation and Rehabilitation

Thorough assessment of bridge deck condition allows our engineers to develop targeted and cost-effective rehabilitation programs. Our field assessments techniques, such as chloride ion profiles, infrared thermography, impact echo, 3D GPR, and digital image processing, have been used successfully to develop deck rehabilitation programs for more than 60 bridges in Virginia on the current and previous terms of this on-call contract, including four bridges on I-77 over Clear Fork Creek, 22 structures on Route 360 corridor, and five bridges in the VDOT Lynchburg.

Bridge Superstructure Replacement

Development of bridge superstructure replacement plans often requires careful consideration of traffic impacts and a detailed sequence of construction. We have designed superstructure replacement projects for more than 200 bridges in Virginia on the current and previous terms of this on-call contract. Our focus on constructability and cost-effective solutions

proved successful on such tasks as Route 17 over NS Railway, Route 601 over Route 29, and a single task with 34 bridges in the VDOT Salem District, which were bundled into six separate construction contracts.

Bridge Superstructure Repairs

Under the current and previous terms of this contract, **AECOM has completed more than 50 superstructure repair projects, ranging from repair of impact damage at Interstate 81 over Route 80 or retrofit of fatigue cracking at Route 58 over NS Railway to truss floor system replacement at Route 685 over Craig Creek and emergency bearing replacements on Interstate 81 over Reed Creek.**



"AECOM continues to provide excellent service for the Bridge Maintenance and Repair contract for the VDOT Bristol District."

Teresa Gothard, PE, VDOT District Bridge Engineer



AECOM Team: Rob Dean, Bobby Prince, Ian McElhone

Firm Name	Ardaman & Associates, Inc.			Past Performance Evaluation Discipline(s)*		Geotech	
Project name	I-20 Mississippi River Bridge Review				Firm responsibility (prime or sub?)		Prime
Project number	SP No. H.004646 09-L1049 H.010603.6 13-3720 H.010612.6 20-3729 H.004647.6 22-3746, 22-3753, 24-3707		Owner's name		LADOTD		
Project location	Madison Parish, LA			Owner's Project Manager		Chris Nickel	
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, LA; 225.379.1100; Chris.Nickel@la.gov					
Services commenced by this firm (mm/yy)		10/09	Total consultant contract cost (\$1,000's)				\$10,881
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)				\$10,881

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

✓ Geotechnical Investigations



Ardaman conducted a geotechnical study to develop a list of technically feasible remedial alternatives to decrease the potential for ground movements to occur at the site of the I-20 Bridge. Movement of the east abutment of the bridge was first realized in 2001 during an inspection. Over the years Mississippi DOT has retained several consultants who have studied the problem, but no viable solution was identified. Ardaman conducted a comprehensive review of past slope stability evaluations and recommendations. This task was followed by developing a refined geotechnical site characterization plan for the bank/bluff area for further analyses. Drilling operations included obtaining extremely sensitive samples containing prehistoric shear planes from the river via barge and on land, all with extremely difficult access conditions. The drilling

program also included installation of geotechnical instrumentation such as Shape Accelerator Arrays, inclinometers, and vibrating wire piezometers. Engineering analyses performed included seepage and drawdown analyses and both equilibrium and finite element numerical modeling slope stability analyses. As part of the project, Ardaman developed a full slope stabilization design and construction remediation strategy and a monitoring program for the bluff instability and ground movements affecting the existing I-20 Mississippi River Bridge.

Ardaman is currently managing a phase of the project which involves upgrading the entire instrumentation communication system. It also includes gathering and continuously monitoring various types of instrumentation data, inspects of the site and monitoring changes in topography by obtaining periodic survey data.

Ardaman Team: Megan Bourgeois, Robert Jewell, Jarmon King,



Firm Name	Bridge Diagnostics, Inc.		Past Performance Evaluation Discipline(s)*	Bridge, Other (Instrumentation)
Project Name	Louisiana Statewide Non-Destructive Testing and Evaluation IDIQ		Firm Responsibility (Prime or Sub?)	Prime
Project Number	H.009730	Owner's Name	LADOTD	
Project Location	Statewide, Louisiana	Owner's Project Manager	Bradley Mistich	
Owner's Address, Phone, Email	Office of Engineering PO Box 94245, Baton Rouge, LA 70804-9245, 225-379-1200, Bradley.Mistich@la.gov			
Services Commenced by This Firm (mm/yy)	05/23	Total Consultant Contract Cost (\$1,000's)		\$5,000
Services Completed by This Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by This Firm (\$1,000's)		\$4,607 (Ongoing)

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

- ✓ Underwater Imaging
- ✓ Bridge Inspection
- ✓ NDT/Evaluation



Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.) BDI was awarded the Non-Destructive Testing and Evaluation IDIQ across the state of Louisiana.

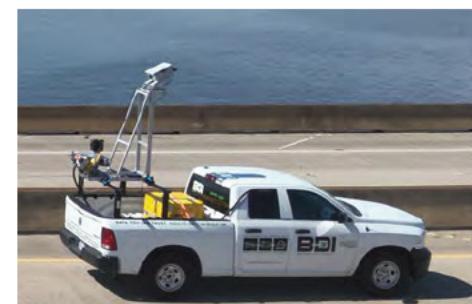
Task Order II Twin Span and 6-mile Deck Evaluation: BDI performed deck assessments involving various NDT-E methods including SounDAR, Ground Penetrating Radar (GPR), High Resolution Imaging (HRI), Infrared Thermography (IR), and concrete material sampling on bridge recall numbers 204140, 204150, 020467, and 020468 for the purpose of assessment of reinforcement concrete condition, cover, location, and diameter; detections of voids and delaminations in concrete, and concrete material sampling.

Task Orders III and VI Interstate 20 Deck Evaluation and Pin and Hanger Testing: To assist with bridge preservation efforts, BDI is performing deck assessments for 273 structures on the Interstate 20 corridor in Louisiana involving various NDT-E methods including SounDAR, GPR, HRI, and IR for the purpose of assessment of reinforcement concrete condition, cover, location, and diameter and detection of voids and delaminations in concrete. BDI is also performing steel member condition assessment via ultrasonic testing (UT) on 39 structures statewide.

Task Order IV US-11 over Lake Pontchartrain Deck Evaluation and NBIS Inspection: BDI performed deck assessments involving various NDT-E methods including SounDAR, GPR, HRI, and IR for the purpose of assessment of reinforcement concrete condition, cover, location, and diameter and detection of voids and delaminations in concrete on bridge recall numbers 001525, 001545, 001552, and 200830. BDI also performed the NBIS Routine inspections on these structures which included detailed in-depth field inspections.

Task Order V Bayou Ramos: BDI is performing instrumentation and testing of bridge recall numbers 030115 and 030185 over Bayou Ramos including design of instrumentation plans, instrumentation of sensors, maintenance of sensors, and analysis and evaluation of the accumulated data.

Steven Fall serves as project manager responsible for the non-destructive testing plan development and application, field testing logistics, field crew management, reporting and QA/QC of various project tasks. Brice Carpeenter serves as project engineer responsible for load rating, instrumentation plan development and application, analysis team management, Brett Commander and Charles Young serve as subject matter experts, and Jesse Sipple serves as the services division manager and subject matter expert.



CONSOR Team: Steven Fall, Charles Young

Firm Name	Conсор North America, Inc.			Past Performance Evaluation Discipline(s)*	Bridge
Project Name	Underwater Bridge Inspection			Firm Responsibility (Prime or Sub?)	Prime
Project Number	4400029206	Owner's Name		Louisiana Department of Transportation & Development	
Project Location	Louisiana, Statewide		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 (mm/yy)		08/24	Total Consultant Contract Cost (\$1,000's)		\$3,360 (to date)
Services Completed by This Firm (mm/yy)		Present	Cost of Consultant Services Provided by This Firm (\$1,000's)		\$3,360 (to date)

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

- ✓ Underwater Inspection Imaging
- ✓ Bridge Inspection
- ✓ NDT/Evaluation



Under four consecutive contracts since 2013, Conсор has performed 1,707 underwater bridge inspections statewide. 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, the Huey P. Long Bridge over the Mississippi River, 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 SNBI ratings are reported in LADOTD's bridge management database. CADD inspection drawings, stream bed cross sections comparing previous to current soundings, repair recommendations, and photo documentation are included as part of each inspection submittal.

CONSOR Team: Heath Pope; Sebastien Templeton



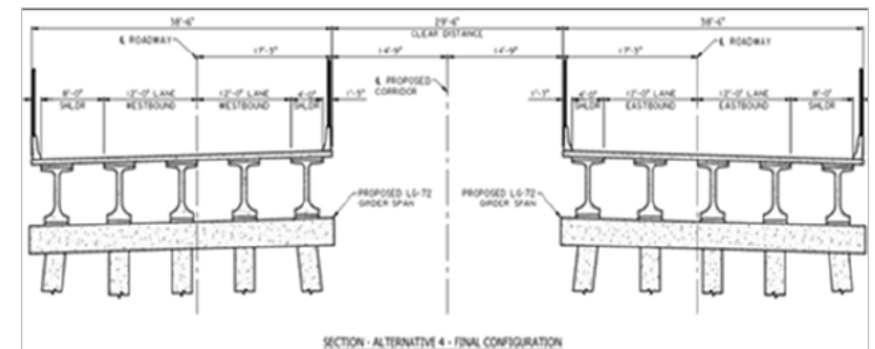
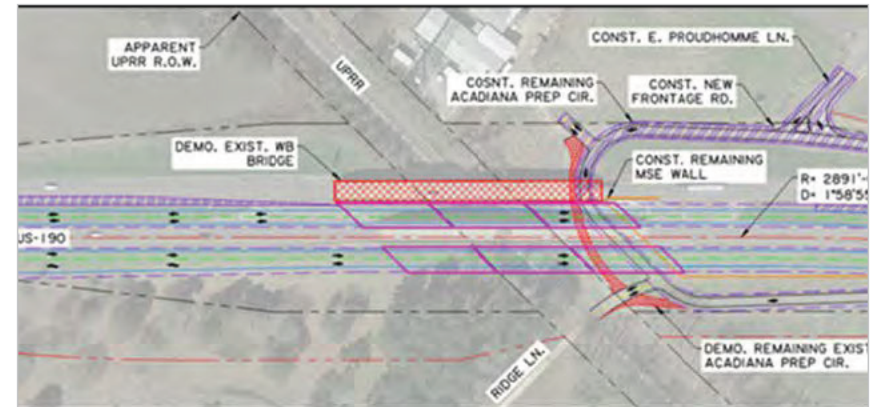
Firm name	Forte & Tablada, Inc.		Past Performance Evaluation Discipline(s)*	Bridge, Road	
Project Name	Retainer for Bridge Preservation Task Order 2- US 190 Over UPRR and Little Teche Bayou			Firm Responsibility (Prime or Sub?)	Sub
Project Number	S.P. No. H.000445	Owner's name	LADOTD c/o HNTB		
Project Location	St. Landry Parish, LA		Owner's Project Manager	Dusty Bastion, P.E. (HNTB)	
Owner's Address, Phone, Email		1000 Perkins Rowe, Suite 640, Baton Rouge, LA 70810, dbastion@HNTB.com			
Services Commenced by This Firm (mm/yy)		10/18	Total Consultant Contract Cost (\$1,000's)		\$207
Services Completed by This Firm (mm/yy)		05/19	Cost of Consultant Services Provided by This Firm (\$1,000's)		\$147

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

- ✓ Bridge Design
- ✓ Bridge Inspection
- ✓ Bridge Rehabilitation
- ✓ Roadway
- ✓ Condition Assessment



Forte and Tablada, Inc., as a sub consultant to HNTB on a bridge preservation retainer contract with LADOTD, developed a scoping document for the replacement or rehabilitation of the EB and WB US 190 bridges over the Union Pacific Railroad (UPRR) near I-49 and over Little Teche Bayou in St. Landry Parish, LA. Based on our findings, a Bridge Evaluation Report outlining the feasibility and preliminary cost estimates for several construction phasing alternatives, as well as a recommended scope of work, was developed. Based on the condition (and subsequent load rating) and configuration of the existing bridges, it was determined that both bridges over the railroad tracks, as well as the bridges over Little Teche Bayou, should be replaced with new structures. Due to the UPRR ROW width, a much longer center span (and deeper girders) was needed, which required the roadway profile to be raised significantly to provide the required vertical clearance over the railroad tracks. Also, since U.S. 190 is frequently used as an alternate route for I-10, it was determined that a new horizontal alignment is required to allow for two lanes to remain open in both directions during construction.



Forte & Tablada, Inc. Team: Joffrey Easley, Allison Schilling

Firm name	Forte & Tablada, Inc.	Past Performance Evaluation Discipline(s)*	Survey
Project name	LA 47 Over Bayou Bienvenue	Firm responsibility (prime or sub?)	Sub
Project number	S.P. No. H.015935	Owner's name	LADOTD c/o HNTB
Project location	Orleans and St. Bernard Parishes, LA	Owner's Project Manager	Dusty Bastion, PE (HNTB)
Owner's address, phone, email	1000 Perkins Rowe, Suite 640, Baton Rouge, LA 70810 / (225) 368-2810 / dbastion@HNTB.com		
Services commenced by this firm (mm/yy)	02/24	Total consultant contract cost (\$1,000's)	\$104
Services completed by this firm (mm/yy)	03/24	Cost of consultant services provided by this firm (\$1,000's)	\$104

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

✓ Topographic Survey

✓ ROW Mapping



Forte and Tablada performed an emergency topographic survey in support of the replacement of the LA 47 Paris Road Bridge over Bayou Bienvenue, located just north of Chalmette, Louisiana. The survey limits extended approximately 1,300 feet along LA 47—500 feet south of the southern bridge abutment to 500 feet north of the northern abutment—and included 500 linear feet of Bayou Bienvenue (250 feet upstream and downstream of the bridge).

Scope of Services:

The scope included a full topographic survey capturing:

- ▶ Surface features required for bridge replacement design
 - ▶ All utilities with depths and drainage structures
 - ▶ Finish floor elevations of structures within the survey corridor
 - ▶ Limited bridge detail including deck features, pile cap centerline, number of piles, and bottom of stringers
 - ▶ Stationary Terrestrial Laser Scanning (TLS) on hard surfaces including roadways and the bridge deck
 - ▶ Apparent ROW determination based on existing monumentation
- All deliverables were completed in accordance with the LADOTD Location

and Survey Manual, including point cloud data in E57 and LAS format.

Key Challenge: The biggest challenge faced by the survey team was the aggressive turnaround time required to support an emergency bridge closure. Forte and Tablada deployed multiple field crews and leveraged advanced scanning technologies to meet critical project deadlines without sacrificing quality or accuracy.

Deliverables:

- ▶ Digital Terrain Model (DTM)
- ▶ Topographic CAD files
- ▶ Utility and drainage mapping
- ▶ TLS Point Cloud (E57 and LAS)
- ▶ Apparent ROW mapping



Outcome: Despite the urgency, Forte and Tablada delivered all required survey data within 30 days of receiving advanced notice to proceed—months ahead of the official contract execution. The rapid mobilization and delivery enabled the design team to proceed immediately with critical bridge replacement efforts. This project showcases Forte and Tablada's capability to perform under pressure and deliver precise geospatial data on compressed timelines for high-priority infrastructure needs.

Forte & Tablada, Inc. Team: Brad Holleman, P.L.S., P.E., Ross Wilson, P.L.S.

Firm name	Forte & Tablada, Inc.		Past Performance Evaluation Discipline(s)*	Bridge, Survey, Road
Project name	Off-System Bridge Replacements -Whittington Rd. over Grays Creek		Firm responsibility (prime or sub?)	Prime
Project number	S.P. No. H.016166	Owner's name	Livingston Parish	
Project location	Orleans and St. Bernard Parishes, LA	Owner's Project Manager	Sam Digirolamo	
Owner's address, phone, email		20399 Government Blvd, Livingston, LA 70754, 225-686-3062, sdigirolamo@lpgov.com		
Services commenced by this firm (mm/yy)		07/17	Total consultant contract cost (\$1,000's)	\$176.2
Services completed by this firm (mm/yy)		12/20	Cost of consultant services provided by this firm (\$1,000's)	\$134.4

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

- ✓ Topographic Survey
- ✓ Bridge Design
- ✓ Bridge Evaluation
- ✓ Roadway
- ✓ Bridge Inspection
- ✓ ROW Mapping



Forte and Tablada provided surveying, engineering, and hydraulic analysis services required for the replacement of an aging timber bridge on Whittington Road over Grays Creek in Livingston Parish. The existing timber bridge was replaced with a six-span concrete slab span bridge. As this road is the only access to dozens of homes and a temporary crossing was not feasible due to site constraints, a temporary access road was constructed to provide access to the residents while the bridge was out of service. This required an agreement between the landowners and the Parish, which was facilitated by Forte and Tablada. This work included the following tasks:

- ▶ Topographic Survey
- ▶ Hydraulic Analysis
- ▶ Civil and Bridge Design & Construction Plans Preparation
- ▶ Wetlands/Environmental Services
- ▶ Property Surveys and ROW Agreements
- ▶ Construction Phase Services



Forte & Tablada, Inc. Team: Joffrey Easley, P.E., Tyler Branch, P.E., Ross Wilson, P.L.S.

Firm Name	KPFF, Inc.		Past Performance Evaluation Discipline(s)*	Other (Instrumentation)
Project Name	In-depth Inspection, Testing, and Rehabilitation Plan Development of KYTC William H. Natcher and William H. Harsha Cable Stay Bridges		Firm Responsibility (Prime or Sub?)	Sub
Project Number	Unknown	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 (mm/yy)		01/22	Total Consultant Contract Cost (\$1,000's)	\$196
Services Completed by This Firm (mm/yy)		10/23	Cost of Consultant Services Provided by This Firm (\$1,000's)	\$196

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

- ✓ Preventative Maintenance & Repair
- ✓ Bridge Inspection
- ✓ NDT/Evaluation



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.



KPFF Team: Mark Powlison

Firm Name	Marrero, Couvillon & Associates, L.L.C.			Past Performance Evaluation Discipline(s)*	Other (Lighting)		
Project Name	LADOTD I-10 Widening, LA73 to LA30				Firm responsibility (prime or sub?)		Sub
Project Number	DOT22009.801		Owner's Name		LADOTD		
Project location	Baton Rouge, LA			Owner's Project Manager		John Raymond (Shread-Kuyrkendall)	
Owner's Address, Phone, Email		1201 Capital Access Road, Baton Rouge, LA, 225-296-1335 – jraymond@skaengr.com					
Services Commenced by This Firm (mm/yy)		09/22	Total consultant contract cost (\$1,000's)				Unknown
Services Completed by This Firm (mm/yy)		01/24	Cost of consultant services provided by this firm (\$1,000's)				\$186

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

✓ Roadway Lighting



MCA scope of services is to modify the existing high mast lighting at LA73 interchange, as needed to accommodate the widening of I-10. This required a photometric analysis to be performed on the existing conditions, and again on the proposed relocation for the high mast poles to accommodate the added travel lanes and new bridge construction over LA73. The high mast poles shall be re-used, with new LED light fixtures and lowering devices provided. Kimball Schlafly is providing the project management. Project is currently awaiting bid by LADOTD.

Marrero, Couvillon & Associates, L.L.C. Team: Kimball Schlafly, PE

Firm Name	T. Baker Smith, LLC		Past Performance Evaluation Discipline(s)*	Survey, Other (SUE), Road	
Project Name	Rural Bridge Replacement Initiative, Phase I & II			Firm Responsibility (Prime or Sub?)	Prime
Project Number	Multiple #s	Owner's Name	Louisiana Department of Transportation and Development		
Project Location	Statewide, LA		Owner's Project Manager	Valerie M. Tourres, PE	
Owner's Address, Phone, Email		1201 Capitol Access Rd., Baton Rouge, LA 70802, 225.379.1894, valerie.tourres@la.gov			
Services Commenced by This Firm (mm/yy)		Ph I 08/20 Ph II 05/21	Total Consultant Contract Cost (\$1,000's)		Ph I \$6,952 Ph II \$7,282
Services Completed by This Firm (mm/yy)		Ph I 02/26 Ph II Ongoing	Cost of Consultant Services Provided by This Firm (\$1,000's)		Ph I \$4,470 Ph II \$4,585

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

✓ Topographic Survey
✓ SUE

✓ ROW Design



As part of an overall effort by LADOTD to reduce the amount of structurally deficient bridges throughout the state as part of meeting FHWA metrics, LADOTD contracted TBS for the Rural Bridge Replacement Initiative, Phase I and Phase II project which replaced 87 bridge structures, primarily in North Louisiana, within 14 parishes including Claiborne, Webster, and Red River Parish.

The consultant contract was complete turnkey project involving inspection, surveying, ROW, geotechnical, preliminary and final bridge plans, preliminary and final roadway plans, construction services, scour analysis, hydraulic analysis, load rating and permanent signing. **TBS was the prime consultant for this contract and is responsible for nearly all contract services including inspection, topographic surveying, ROW mapping, Preliminary and final bridge plans, preliminary and final roadway plans, construction services, scour analysis, hydraulic analysis, load rating and permanent signing for all 87 structures.** TBS is coordinating geotechnical investigation and design using sub-consultants.

T. Baker Smith Team: TJ Stokes, PE; Perry Smith; Jean Reulet, III; PLS; Anthony Burns; Ryan DiSalvo, PLS; Laramie Leet; Branden Kinnaird; Rene Hebert, PLS, PMP; Derek McGehee; Cy Toups, PE; Victor Hernandez

The replacement structures include box culverts, RC Slab spans, and Louisiana Girder (LG) 25 girder span bridges on PPC piles having clear widths ranging from 24' wide to 40' wide.

Typical topographic and property surveys extended 500' from each end of the existing bridge structure. Due to the rural nature of these project sites, most boundary corners were poorly monumented. TBS survey crews identified other evidence of possession such as fence lines and painted trees to assist in boundary placement. Additionally, many property surveys extended into tracts adjoining the affected properties to provide additional confirmation of boundary locations.

TBS performed initial title research through the local clerk of court offices to aid in the property survey stage and attempted to obtain historical ROW maps for each site through LADOTD's records. Provided title research reports were reviewed to confirm ownership, conveyance data and existing servitudes and rights of way. ROW maps were prepared according to LADOTD Location and Survey standards.



Firm Name	T. Baker Smith, LLC			Past Performance Evaluation Discipline(s)*	Survey, Other (SUE), Road, Environmental
Project Name	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Replacement Program			Firm Responsibility (Prime or Sub?)	Prime
Project Number	Multiple #s	Owner's Name		Louisiana Department of Transportation and Development	
Project Location	LADOTD District 08, LA		Owner's Project Manager		Brian Allen
Owner's Address, Phone, Email		1201 Capitol Access Rd., Baton Rouge, LA 70802; 225.379.1840; brian.allen@la.gov			
Services Commenced by This Firm (mm/yy)		12/22	Total Consultant Contract Cost (\$1,000's)		\$2,450
Services Completed by This Firm (mm/yy)		Ongoing	Cost of Consultant Services Provided by This Firm (\$1,000's)		\$2,044

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

- ✓ Topographic Survey
- ✓ ROW Mapping
- ✓ SUE
- ✓ Roadway Design



The IIJA Off-System Bridge Replacement Program was created with the signing of the IIJA to increase federal funding to replace off-system bridges that are in fair or poor condition. LADOTD awarded TBS with the IIJA off system bridge contract for District 08, which allocated approximately \$29 million to cover engineering services, construction, environmental, ROW acquisitions, utility relocations and construction support services.

TBS serves as the prime consultant on this contract and is responsible for road and bridge design services including horizontal and vertical alignments, hydraulic and hydrologic analysis, cross sections, geometric details, sequence of construction, temporary erosion control, and cost estimation. TBS also provides topographic surveying services, environmental permitting, and ROW services.

Typical topographic and property surveys extended 500' from each end

T. Baker Smith Team: TJ Stokes, PE; Jean Reulet, III, PLS; Rene Hebert, PLS, PMP; Anthony Burns; Ryan Disalvo, PLS; Laramie Leet; Branden Kinnaird; Derek McGehee; Pery Smith; Cy Toups, PE; Victor Hernandez

of the existing bridge structure. Due to the rural nature of these project sites, most boundary corners were poorly monumented. TBS survey crews identified other evidence of possession such as fence lines and painted trees to assist in boundary placement. Additionally, many property surveys extended into tracts adjoining the affected properties to provide additional confirmation of boundary locations.

TBS performed initial title research through the local clerk of court offices to aid in the property survey stage and attempted to obtain historical ROW maps for each site through LADOTD's records. Provided title research reports were reviewed to confirm ownership, conveyance data and existing servitudes and rights of way. ROW maps were prepared according to LADOTD Location and Survey standards.



Firm Name	T. Baker Smith, LLC	Past Performance Evaluation Discipline(s)*	Survey
Project Name	IDIQ Contract for Professional Surveying Services Statewide	Firm Responsibility (Prime or Sub?)	Prime
Project Number	4400021973	Owner's Name	LADOTD
Project Location	Statewide, LA	Owner's Project Manager	Jonathan Herrod, PLS
Owner's Address, Phone, Email	1201 Capitol Access Rd., Baton Rouge, LA 70802, 225.379.1105, Jonathan.Herrod@la.gov		
Services Commenced by This Firm (mm/yy)	11/21	Total Consultant Contract Cost (\$1,000's)	\$2,426
Services Completed by This Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by This Firm (\$1,000's)	\$2,426

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

✓ Topographic Survey



TBS was awarded a statewide surveying retainer contract in 2021. Under this \$5 million retainer contract, TBS performs Topographic Surveying for LADOTD projects statewide. Multiple task orders for survey work was issued and TBS completed all deliverables using MicroStation and Inroads as certified by CADconform. Below is a partial list of completed Task Orders:

- S.P. No. H.009892 – LDRR (New Iberia) US 90 Frontage Road, Iberia Parish. This project is located in Iberia Parish, LA at the intersection of US 90 and LA 329, north of US 90, and along US 90 Frontage Road and LA 329. The project's objective was to connect the US 90 Frontage Road across LA 329 and the existing Louisiana and Delta Railroad (LDRR). A complete topographic survey including all utilities with depths and all drainage was required, along with the finished floor elevations of all buildings that fell within the survey limits and an existing drainage map of the project site.
- S.P. No. H.014414 – LA 22: Bedico Creek – Pine Creek Dr, St. Tammany and Tangipahoa Parishes. This project is located near Madisonville, LA along LA 22. The main corridor for this project is approximately 4.5 miles along a highly trafficked roadway through a heavily wooded corridor. The width of the survey and DTM was a total of 140', extending 70' on each side of the project centerline. The project also included the topographic survey for a potential roundabout at Trapagnier Road and an existing drainage map of the project site. Over the course of the year-long survey, TBS encountered ongoing new utility installation and other construction throughout the site.

A complete topographic survey including all utilities with depths and all drainage was required, along with the finished floor elevations of all buildings that fell within the survey limits.

- S.P. No. H.015587 LA 3211 @ Yokley Road Roundabout, St. Mary Parish. This project is located in Franklin, LA at the intersection of LA 3211 and Yokley Road. The project's objective was to construct a roundabout at the intersection. A complete topographic survey including all utilities with depths and all drainage was required, along with the finished floor elevations of all buildings that fell within the survey limits and an existing drainage map of the project site.

- S.P. No. H.016326 LA 36 Drain Bridge, St. Tammany Parish. This project is located in St. Tammany Parish, LA along LA 36. The project's objective was to replace an existing bridge structure over a drainage canal. The site extended for approximately one thousand (1,000) feet in length and one hundred fifty (150) feet in width. A complete topographic survey including all utilities with depths and all drainage was required, along with the finished floor elevations of all buildings that fell within the survey limits.



T. Baker Smith Team: Jean Reulet, III, PLS; Ryan DiSalvo, PLS; Anthony Burns

Firm Name	Vectura Consulting Services, LLC		Past Performance Evaluation Discipline(s)*	Traffic	
Project Name	I-20: LA 544 Overpass Replacement			Firm responsibility (prime or sub?)	Sub
Project Number	H.010616	Owner's Name	LADOTD		
Project location	Baton Rouge, LA		Owner's Project Manager	Jacob Fusilier	
Owner's Address, Phone, Email		1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1185, Jacob.Fusilier@la.gov			
Services Commenced by This Firm (mm/yy)		04/23	Total consultant contract cost (\$1,000's)		Unknown
Services Completed by This Firm (mm/yy)		10/23	Cost of consultant services provided by this firm (\$1,000's)		\$ 131,973

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

- ✓ Traffic Modeling VISSIM
- ✓ Interchange and Intersection Analysis
- ✓ Safety Analysis
- ✓ Signalized Intersections Analysis
- ✓ Traffic Data Collection
- ✓ Roundabouts



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

- Preliminary and final traffic studies
- Temporary and final traffic signal plans
- Traffic Management Plan (TMP)
 - o safety strategy that included a CAT Scan,
 - o LOS determination utilizing Citrix data,
 - o lane closure recommendations based on a queue analysis,
 - o cost estimate,
 - o and public information strategies.

Vectura Consulting Services, LLC Team: Brin Ferlito, Laurence Lambert, Reece Rodriguez



Firm name	Wiss, Janney, Elstner Associates, Inc.		Past Performance Evaluation Discipline(s)*	Bridge, Other (Instrumentation)	
Project name	Danziger Lift Bridge Repair			Firm responsibility (prime or sub?)	Prime/Sub
Project number	Contract 4400009424, H.000303.6; 44-21594, H.000303.6; 44-23923, H.014283.5	Owner's name	Louisiana Department of Transportation and Development		
Project location	New Orleans. LA		Owner's Project Manager	Mark Bucci	
Owner's address, phone, email		1201 Capitol Access Rd., 6th floor, Baton Rouge, LA 70802; (225) 379-1076; mark.bucci@la.gov			
Services commenced by this firm (mm/yy)		07/19	Total consultant contract cost (\$1,000's)		\$3,132
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$2,622

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

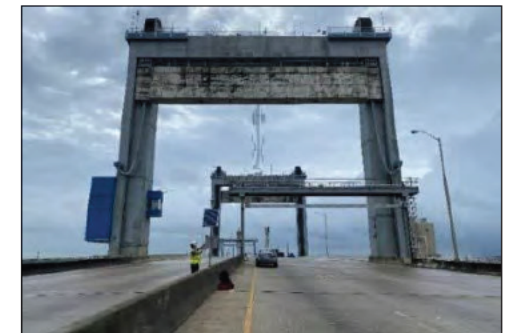
- ✓ Movable Bridge Rehabilitation
- ✓ Bridge Inspection
- ✓ Instrumentation
- ✓ NDT/Evaluation
- ✓ Preventative Maintenance & Repair
- ✓ Electrical/ mechanical inspection and design

The Danziger Lift Bridge is an electro-mechanical, tower drive vertical lift bridge that opened to vehicular traffic in 1984. The bridge was reportedly experiencing operational issues, which included the movable span no longer fitting into the available space between the towers as well as one corner of the bridge not seating properly. **WJE was tasked with performing an inspection of relevant portions of the main span contributing to the reported operational issues, an in-depth inspection of the lift bridge machinery and electrical systems, and development of repairs to restore the long-term functionality and reliability of the bridge.** WJE installed instrumentation and monitoring equipment during the field investigation to evaluate the bridge's operations over an extended period. Based on the findings from our investigation, **WJE prepared emergency repair plans and specifications** to address some of the operational issues with the bridge. Significant findings and the associated remedies included the following.

- ▶ Improving the lift span riding surface on the steel orthotropic deck with the installation of polyester polymer concrete repairs.
- ▶ Identification of pinion shaft bearing damage and the subsequent restoration of the pinion shafts and bearings.
- ▶ Addressing the contact of the lift span during warm temperatures with the

approach spans by monitoring the joint movements and identifying that daily thermal movements of the approach spans were causing the issue, and that by cleaning the expansion joints, the issue was alleviated.

- ▶ Design of a new lift span skew control system after components were removed from the bridge and could not be relocated or replaced in kind.
- ▶ Design of electrical controls for the clutches associated with the span drive differentials.
- ▶ Strain gage testing to measure span balance and implementation of counterweight changes to improve seating of the span.
- ▶ Strain gage testing also showed that the span drive differentials on both towers were not functioning properly requiring coordination with the manufacturer to properly adjust the clutches in the differentials.
- ▶ Repairs to the air buffer system to eliminate excessive demands on the span drive system when seating the bridge.
- ▶ Inspection of trunnion bearings and installation of automated acoustic monitoring system to assess bearing performance until scheduled replacements are required.
- ▶ Preparation of rehabilitation cost estimates.



Wiss, Janney, Elstner Associates, Inc. Team: Jonathan McGormley, John Williams, Gareth Rees

Firm name	Wiss, Janney, Elstner Associates, Inc.		Past Performance Evaluation Discipline(s)*	Bridge, Other (Instrumentation)
Project name	Sir Ambrose Shea Lift Bridge Replacement		Firm responsibility (prime or sub?)	Sub
Project number	N/A	Owner's name	Government of Newfoundland and Labrador, Department of Transportation and Public Works	
Project location	Placentia, Newfoundland and Labrador Province (Canada)	Owner's Project Manager	Jack Ajrab, Technical Director (Parsons Corporation)	
Owner's address, phone, email		Austin, TX, (512) 416-2717, Courtney.Holle@txdot.gov		
Services commenced by this firm (mm/yy)		09/12	Total consultant contract cost (\$1,000's)	\$47.7
Services completed by this firm (mm/yy)		09/16	Cost of consultant services provided by this firm (\$1,000's)	\$1.8

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

- ✓ Movable Bridge Rehabilitation
- ✓ Bridge Inspection
- ✓ Preventative Maintenance & Repair
- ✓ Electrical and Mechanical design

Located on the Avalon Peninsula in Placentia, a town in the Canadian province of Newfoundland and Labrador, the Sir Ambrose Shea Lift Bridge provides a vital connection for local communities while supporting the region's commercial fishing industry. The bridge is raised approximately 2,400 times annually and is one of the few vertical lift bridges in Canada.

This project was recognized with the 2017 Transportation Award of Merit from the Consulting Engineers of Ontario, the 2017 Canadian Consulting Engineering Award of Excellence and the 2016 Design Awards for Excellence in Steel Construction from the Canadian Institute of Steel.

WJE provided mechanical and electrical engineering services for this new tower drive vertical lift bridge from inception through completion. Services included development of a bridge design report; preparation of plans, specifications, and cost estimates for the design of all machinery and electrical systems, and construction services. WJE's design features two mechanically independent tower drive systems. Rolling element main counterweight sheave bearings were selected to minimize friction and maintain a compact machinery package that would fit in the available space.

The mechanical design includes all span support machinery (counterweight sheaves and bearings, counterweight ropes and terminations, and live load supports), span drive machinery (motors, brakes, couplings shafts, and speed reducers), and span locks (motors, speed reducers, lock bars, guides,

and receivers). The objective of the mechanical design was to integrate the mechanical systems into the structure with minimal impact from a visual perspective, while minimizing maintenance requirements and improving overall system efficiency.

The electrical scope of the project included specifying and designing the bridge electric utility service, a standby generator, motor control centers in each tower, a redundant control system, monitoring field feedback devices and a highway traffic control system. The control system utilized a PLC-based system for control and monitoring, including the capability for remote system access. The span drive systems utilized digitally-controlled, variable speed motor drives.



Wiss, Janney, Elstner Associates, Inc. Team: Gareth Rees, John Williams

Firm name	Wiss, Janney, Elstner Associates, Inc.		Past Performance Evaluation Discipline(s)*	Bridge, Other (Instrumentation)	
Project name	LA-70 Sunshine Bridge over the Mississippi River, Vertical Member Failure			Firm responsibility (prime or sub?)	Sub
Project number	H.015228.5	Owner's name	LADOTD		
Project location	St. James Parish, LA		Owner's Project Manager	Chris Guidry	
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, LA 70802, (225) 379-1076, Mark.Bucci@la.gov			
Services commenced by this firm (mm/yy)		08/22	Total consultant contract cost (\$1,000's)		\$193
Services completed by this firm (mm/yy)		06/25	Cost of consultant services provided by this firm (\$1,000's)		\$193

RELEVANT TO LADOTD BRIDGE PRESERVATION IDIQ

- ✓ Bridge Inspection
- ✓ Structural Evaluation
- ✓ Emergency Repair Design
- ✓ Load Restriction Support
- ✓ NDT / Metallurgical Evaluation
- ✓ Instrumentation & Monitoring
- ✓ Fatigue Analysis
- ✓ Preventive Maintenance & Repair



The Sunshine Bridge is a cantilevered through truss with a main span of 825 feet that crosses the Mississippi River. Constructed in 1964, the bridge provides 170 feet of vertical clearance over the river channel. The bridge is a continuous five-span riveted steel through truss comprised of 83 panel points, with a vertical member at each panel point. In August 2022, during a routine inspection of the Sunshine Bridge by the LADOTD, two fractured angles comprising the flange of Vertical Member L37-U37N were observed at the upper U37N connection. The cracks occurred at the same elevation and were aligned with the bottom of the gusset plate. Due to the cracks, the westbound right lane on the bridge was closed to traffic. Based on an initial structural evaluation of the fractures by WJE, it was estimated that approximately 60 percent of the member capacity remained. Thus, the bridge was allowed to remain open; however, no permitted loads or vehicles requiring a permit from the LADOTD were allowed to use the bridge during the lane closure.

WJE performed a structural investigation and developed emergency repairs to address the partial fracture. Within two days of the finding, WJE engineers prepared a preliminary repair design with the 1-inch thick A709 Grade 50 plate procured, cut, drilled, and primed by the following week. WJE then installed the splice plate and carefully removed samples from the two fractured angles, which were sent to WJE's laboratory for metallurgical evaluation. Fracture of member U37N was the result of section loss of the material on the north face that created a surface geometry that introduced stress concentrations

and subsequent cracking. This localized deterioration involved pre-existing corrosion, geometric distortion from pack rust, and cumulative fatigue damage.

To evaluate the significance of the fracture findings on the remaining vertical members, WJE installed and monitored sensors for six months at the three north truss vertical members L37'-U37'N, L39'-U39'N, and U39'-U39'N. The monitoring data from the geometrically mirrored member, U37'N, particularly at the west outboard flange, revealed several similar conditions consistent with those that preceded the U37N failure. Fatigue analysis confirmed significantly higher effective stress ranges at U37'N West Outboard—up to 4.5 ksi—compared to the 1.2 to 1.3 ksi ranges typical at other members. Although still below the constant amplitude fatigue limit for Category A details (24 ksi), the effects of section loss are apparent and will continue to increase. Environmental effects, including thermal cycling and wind-induced oscillations, further demonstrated that members with section loss such as U37'N may be more susceptible to stress amplification under vortex shedding.

Recommendations to the LADOTD included repairing U37'N with a similar repair as for U37N, reinspecting the vertical members and installing repairs where section loss is observed, and updating NSTM inspection procedures to include documenting future section loss at these connections.



Wiss, Janney, Elstner Associates, Inc. Team: Jonathan McGormley

Section 18

LA 561 Bridge over Boeuf River, DOTD

**Relevance to DOTD Bridge
Preventative Services IDIQ:**
Roadway, Traffic, MOT, and Bridge
Design



Introduction

The AECOM Team brings recent and relevant Bridge Preservation IDIQ experience to LADOTD as demonstrated on our current LADOTD IDIQ contract and our other IDIQ contracts. *Through our existing task orders, we have worked alongside LADOTD staff developing preventative maintenance solutions for LADOTD's on and off-system programs providing replacement, rehabilitation, and maintenance solutions for LADOTD's bridge inventory.* These task orders have supported LADOTD's needs and echoed many of the bridge department missions and objectives including:

- ▶ Implementing preventative maintenance and/or preservation first strategies on existing infrastructure
- ▶ Supporting LADOTD's enhanced replacement program to reduce the number of load posted and/or critical bridge inventory
- ▶ Acting as an extension of staff for the Bridge Design Section to provide responsive, effective, and emergency (as needed) bridge preservation solutions
- ▶ Using technology to lead the nation in preservation and safety

This approach was developed based upon the numerous discussions held with the LADOTD Contract Manager, our recent task order experience and other DOT IDIQ contract experience. Our staff is very familiar with the preferences and expectations of LADOTD and the approach discussed here will guide us in meeting those expectations in every aspect of our work. The AECOM Team is supported by our local, regional and national offices with significant bridge preservation experience offering cost-effective and practical bridge solutions.

The following table highlights our subconsultant partner's expertise and the value they bring to this Bridge Preventative IDIQ Contract.

Subconsultant	Bridge Preventative IDIQ Role
Ardaman	Geotechnical
BDI	Material Instrumentation and Testing
CONSOR	Underwater Inspections, Acoustic Imaging
Forte & Tablada	Topographic Survey, Roadway, Bridge, 3D Scanning, Advanced Bridge Measurements, ROW Mapping
KPFF	Material Testing (ANSI Level III)
MCA	Lighting
T. Baker Smith	Topographic Survey, Title Work, SUE, Roadway, ROW Mapping
Vectura	Traffic Engineering
WJ&E	Movable Bridge, NDT, Corrosion, SSPC Coatings

LADOTD Bridge Preservation IDIQ Understanding

Over the last four years, we have developed a thorough understanding of DOTD's Bridge Preservation Services task order processes, worked with numerous bridge and roadway task managers, coordinated with DOTD discipline leads, and developed internal management and design protocols so we can be responsive to the needs of this IDIQ contract. *Based on the scope of services, we have assembled a team to support DOTD's bridge design, general bridge engineering, material testing, geotechnical, roadway and traffic engineering, right-of-way/survey, bridge inspection, and environmental and permitting services.* The following paragraphs outline our approach to project management, task order process and project delivery.

Management Approach | AECOM understands the importance of task order management as it pertains to this Bridge Preservation IDIQ contract and will ensure our approach aligns with the LADOTD's task order goals and objectives. **Gary Maji, AECOM Project Manager**, will act as the primary contact and will confirm project team, scoping, scheduling, and deliverables are prepared in accordance with LADOTD's project delivery guidelines. Gary brings relevant bridge task lead experience and a proactive management approach that includes regular and frequent check-ins with the LADOTD/PM.

We have developed an effective protocol we are using on our current LADOTD BPM IDIQ and what we typically follow for successful task order execution. We understand LADOTD's task orders, as described in the RFP, will include engineering design and construction support.

Task Order Approach Protocol

- 1. Identify Project Need:** PM contacts Gary to discuss task order need, project goals and general timeline.
- 2. Develop AECOM Team:** Gary identifies project manager, task lead and support team /that best matches task order requirements and meets with PM for input and approvals.
- 3. Early Task Order Scoping:** PM, Gary and Task Order PM discuss project scope, critical issues, schedule and budget requirements.
- 4. Task Order Submittal/Approvals:** Task order is prepared/submitted in accordance with *Chapter 2 of CSS Manual* including detailed narrative that define AECOM and subconsultant roles, tasks with assigned hours and rate classifications, milestones, deliverables and project schedule.
- 5. NTP/Project Development:** Initiate project kickoff and prepare work in accordance with *Project Delivery Process (Stage 0, I, II and III)*.
- 6. Completion/LADOTD Final Submittals:** Task Order PM and team completes project, submits final and required electronic plan deliverables in accordance with Digital Plan Delivery Standards and Workflows protocols and *BTDM.100*, as applicable.

Proactive Management and Staffing Plan | AECOM uses an established project delivery system that incorporates proven processes, best practices, and digital tools to help us deliver projects reliably and efficiently. Gary Maji and our Task Order Managers will prepare a Project Management Plan (PMP) that we will use to control scope, schedule, quality, budget, and identify staffing requirements. We will confirm staffing and capacity needs and confirm that the PMP and project objectives within an internal kickoff meeting ahead of the project kick-off meeting with LADOTD. **The table below confirms our staffing, task managers, and team capacity support to execute and deliver up to three or more concurrent task orders through this IDIQ contract.**

Figure 1. Staffing and Team Capacity to Support three or more Active Task Order Contracts

Task Order	Task Lead	Team/Leads
Stage 0/I Study	Ian Mcelhone	Rob Dean, Jonathan McDowell
Bridge Eval/Rehab	Gary Maji	Jonathan Giardina, Josh Guitreau
Final Bridge Design	Daniel Boyd	Sarah Elsayah, Jonathan Giardina
On-System Survey	Bradley Holleman	Brent Campbell, Allison Schilling

Digital Delivery | The AECOM team has been continuously integrating DOTD's Digital Plan Delivery protocols on all our projects. Our Bentley MicroStation, InRoads, and OpenRoads software platforms are aligned to comply with DOTD's CAD Software and Deliverable Standards so that each deliverable is CADD Conformed to DOTD's ProjectWise workspace requirements. All our bridge design software is reviewed against DOTD's approved software listing.

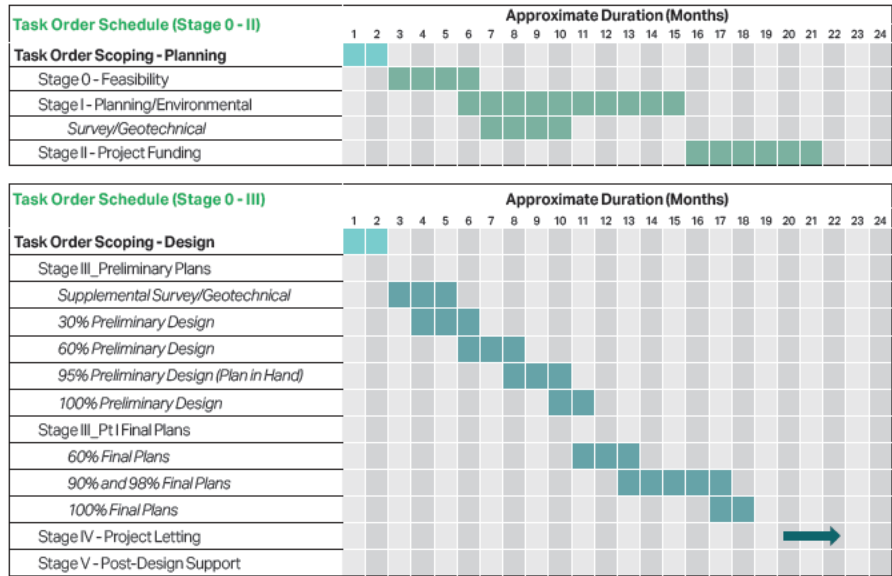
 "Whenever something is requested of AECOM it has been delivered in timely fashion" - James Fogleman, PE, LADOTD PM

Innovative/Integrated | The AECOM team is organized in a manner that allows us to implement best practices, innovative design and advanced technology into our bridge preservation practice. Gary and his team have significant bridge preservation experience and if necessary, can leverage AECOM's National Bridge Instrumentation Practice to help identify the most applicable bridge repair solutions for our clients. *The following table briefly summarizes just a few of the tools we have in our bridge preservation toolbox.*

Preservation Need	AECOM Team Technology Applications
Bridge Condition Assessments	Digital Imaging, UAS Technologies, 3D Photogrammetric Modeling, Field Load Testing, Dye Penetrant, Mag Particle Testing
Material Strengthening	Fiber-Reinforced Polymers, UHPC, External Post-Tensioning, Steel Fatigue Retrofits
Deck Evaluation	3D GPR, Infrared Thermography, Impact Echo, Digital Map Cracking
Instrumentation	Multi-Beam, Remote Sensors and Structural Monitoring Systems, 3D LIDAR Electrochemical Chloride Extraction
Collaboration Tools	LADOTD's ProjectWise, Microsoft Teams, Zoom

AECOM will work with the LADOTD/PM to confirm the project schedule and utilize the latest LADOTD requirements for milestone submittals for both Preliminary Plans and Final Plans, including the latest approved [Greenbook](#), [LADOTD EDSMs](#), [Minimum Design Guidelines](#), [Complete Streets Initiative](#), [LADOTD and AASHTO Bridge Design Specifications](#), [Bridge Design Technical Memorandums \(BDTM\)](#), [Hydraulics Manual](#), and [LADOTD CAD standard requirements](#). Developing the project schedule and milestones will be unique for each task order assignment and will require a collaborative approach between the LADOTD/PM, AECOM Project Manager and Task Disciplinary Leads. Based upon our current experience delivering Bridge Preservation IDIQ task orders and understanding of the scope of work identified within the RFP, we developed separate planning and design task order schedules (Figure 2).

Figure 2. Planning and design task order schedules



Ultimately, the project schedule for the task orders will be set based upon scoping discussions between the AECOM task manager and the DOTD/PM to confirm the schedule incorporates the latest DOTD requirements, as applicable, for different milestone submittals for the design.

Quality Assurance/Quality Control | AECOM's Quality Management System (QMS) is ISO 9001:2015 certified and will be tailored to align LADOTD's project submittal deliverables. For each deliverable, we conduct discipline and interdisciplinary reviews and perform quality assurance reviews to deliver quality projects to LADOTD. Please refer to AECOM's QA/QC program for the Bridge Preservation IDIQ project that commits to LADOTD policy and is attached in this proposal.

Preliminary Design | After the Design Criteria and Line & Grade have been approved, 30% preliminary design and LADOTD's pavement sections will help the team establish roadway and bridge typical sections and roadway plan and profile information for LADOTD approval.

With the 60% preliminary efforts, the project team advances the geometric design confirming clearances, ROW, construction limits, MOT, and bridge foundation layouts. This phase will also include a preliminary hydraulic design report included with the updated 60% preliminary plans.

AECOM will participate in a Plan-In-Hand meeting (95% submittal) with the PM, Bridge Design Section, and District for review, comments, etc., before finalizing and submitting the 100% Preliminary Plans. As part of this submittal, we will prepare any required railroad or environmental clearance permits and begin developing any SWPPP plans to be completed during final design.

Final Design | After environmental approval, the LADOTD/PM issues NTP and the AECOM team will advance the project towards the 60%, 95%, 98%, and 100% plan milestones. During the 60% phase, roadway typical sections alignments are finalized and ROW requirements confirmed. The team will also complete the bridge designs to advance the detail plans while coordinating with the roadway, drainage and traffic disciplines to confirm constructability and identify the plan quantities. The hydraulic design report will be finalized and included with the 60% plan submittal to LADOTD/PM.

After incorporating 60% comments, AECOM will develop the 95% Final Plans, Summary of Quantities sheets, finalized bridge plans, and as-designed bridge load rating report. A 95% Final Plan Review meeting will be held before the 98% Final Plans submittal, including construction cost estimates and special provisions. We will work with the LADOTD/PM so all necessary submittals are made to prepare for 100% Final Plans. After comment resolutions, AECOM will stamp and seal all construction plan sheets for submittal.

Bridge Preservation IDIQ Project Scope of Work

Our team is structured to support LADOTD bridge preservation needs as outlined in the RFP's Attachment A – Scope of Services. The sections below summarize our understanding of the project scope and confirms our abilities to support LADOTD.

Bridge Design Services. The AECOM team is staffed to support any and all types of fixed and movable bridge replacement design, bridge rehabilitation, bridge preventative maintenance and repair needs. All new bridge design task order projects will follow [LADOTD's Bridge Design and Evaluation Manual \(BDEM\)](#) design requirements as we develop preliminary and final design packages in accordance with [LADOTD's Project Delivery Manual](#) requirements.

Our designs will be based upon project constraints and bridge design criteria considering geometrics, grade separation, roadway lane, shoulder, and sidewalk widths, lateral/vertical clearances, drainage/hydraulics, utilities, and ROW constraints. Our team will use both LADOTD BDEM and AASHTO LRFD Bridge Design Specifications as we identify preferred bridge configurations, develop Line & Grade plans, and advance our preliminary and final design efforts. Recent AECOM projects include:

- ▶ **I-49 Connector/Kaliste-Saloom Interchange (H.015934).** Performing bridge design services for numerous grade separation and river crossing structures, and a 2-mile viaduct through downtown Lafayette.
- ▶ **LA561 Bridge over Boeuf River (H.001970):** Preliminary and final design for this bridge replacement project.
- ▶ **LA 10 Bridge over Bayou Carron (H.011993):** Final design for this bridge replacement project.

AECOM ADVANTAGE

AECOM performed an emergency bridge inspection, prepared a conditions summary, and developed short and long-term bridge repairs for the LA 315 Bayou Bascule Bridge under an accelerated schedule. This bridge was recently closed by DOTD but has since reopened after AECOM's short-term repairs were implemented.



Bridge Rehabilitation and Repair. Over the past 30+ years, AECOM staff and our teaming partners have completed thousands of bridge repair/rehab projects throughout the country! *The repair table below identifies our preservation capabilities performed through IDIQ and project-specific contracts for our federal, state, and local clients, including preservation services for LADOTD performed from our previous and/or current IDIQ contracts.*

AECOM Team Bridge Preservation Capabilities

✓ Inspections, Load Ratings, Assessments & Evaluations- 2, 3, 4	✓ Fatigue Analysis/Evaluations
✓ Steel SSPC Painting Assessments	✓ Super/Substructure Replacement- 1
✓ Concrete Corrosion	✓ Truss Repair
✓ NDT/Proof Testing- 4	✓ Heat Straightening
✓ Infrared Deck Scans/Chloride Ion Testing	✓ Foundation Repair/Scour Mitigation
✓ Bridge Deck Hydro-Demolition	✓ Timber Piling Repairs
✓ Deck Resurfacing- 6	✓ Substructure Concrete Patching
✓ Deck Widening	✓ Epoxy Injection Repair
✓ Bearing Repair/Replacements- 5	✓ CFRP Strengthening- 2

1. LA 10, LA 561 Bridges
2. LA 641 over I-10

3. LADOTD Load Rating IDIQ
4. LA 315 Bayou Dularge

5. US 190 WB Krotz Springs Bridge
6. LA 3032 Bridge Resurfacing

For bridge preservation projects, AECOM will develop a design approach that echoes the information contained in [Chapter 6 – Design Policy for Bridge Rehabilitation/Repair Project](#) of the [LADOTD BDEM including LADOTD's draft Section 6.2.2.1 Deck Evaluation](#) document. This approach is outlined below:

- ▶ Reviewing all existing project documents
- ▶ Field investigating the existing bridge
- ▶ Evaluating the load-carrying capacity of the existing structure
- ▶ Determining the proposed scope for rehabilitation; and
- ▶ Summarizing the evaluation results and recommendations

This rehabilitation process will follow the general design protocols for preliminary and final design, established within [Stage III of LADOTD's Project Delivery Process](#). Note that bridge rehabilitation projects that required bridge widening will be developed based on the criteria established in [Section 6.3, Guidelines for Bridge Widening Design](#). Recent AECOM projects include:

- ▶ **LA 6 Red River Bridge (H.013832):** Stage 0/1 - bridge evaluation and rehabilitation design for this 1,872-ft fracture critical structure.
- ▶ **LA 3032 Bridge over Red River (H.016490):** Bridge rehabilitation, GPR, and InfraRed deck testing efforts for bridge preservation design.

Geotechnical Design. Our subconsultant, Ardaman & Associates, is a trusted DOTD partner who has the relevant experience to perform any required geotechnical investigation, analysis, and design. From performing both shallow and deep soil boring investigations to providing soil recommendations based on testing and analysis, the AECOM team is ready to support DOTD's geotechnical needs.

Road Design and Traffic Services. Our team is ready to support both roadway and traffic disciplines and has significant experience developing roadway designs and plans in accordance with [LADOTD's Roadway Design Manual](#), [Minimum Design Guidelines](#), [EDSM](#) and relevant [AASHTO specifications](#). Our hydraulic drainage design will be developed using [LADOTD's Hydraulics Manual](#) and approved software. We have added Vectura Consulting Services to support any MOT and traffic engineering and TMP designs. Recent AECOM projects include:

- ▶ **Bridge Bundling (H.016313- H.016326):** Roadway and drainage design for 11 Off-system bridge replacements
- ▶ **LA 641 Bridge Repairs (H.015603):** TMP Level 2 and MOT design documents.

Surveying and Title Work Services. AECOM partners, T. Baker Smith and Forte & Tablata, will provide the necessary topographic survey, ROW, title work and subsurface utility engineering support for this project. Both were added to help facilitate concurrent task order needs. They also bring proven 3D laser

scanning, underwater acoustical imaging, and ROW title work expertise all performed in accordance with [LADOTD's Location and Survey Manual](#).

Bridge Inspection / Condition Rating

Services. The AECOM team is staffed to support any fixed or movable bridge inspection and LRFR rating needs for this contract. Our team performs NBIS routine, in-depth, emergency, and NSTM inspections, as well as patina assessments for weather steel structures. For limited access areas, AECOM can employ drone technology to provide the needed inspection documentation. We have also added AECOM partners, WJ&E, Consor, and KPFF in support of any underwater inspections, SSPC/NACE coating assessments, and complex NDT bridge testing requirements. Our load rating team also has extensive LRFR rating experience working for DOTD and other state agencies. Recent AECOM projects include:

- ▶ **Movable Bridges (H.011969 - H.012737):** NBIS In-depth inspections, load rating, and rehabilitation design for five (5) movable bridges in southern Louisiana.
- ▶ **IDIQ Contract for In-Depth Inspections (H.varies):** NBIS In-depth inspections, load rating, and repair recommendations for LADOTD's bridges statewide.
- ▶ **LADOTD Bridge Load Rating IDIQ (H.009859.5):** Performing LRFR ratings, in a sub-role, for DOTD Bridge Maintenance statewide.

Environmental and Permitted Services. The AECOM team will help DOTD and its teams in obtaining project environmental approvals and permits, and to support mitigation compliance. Environmental reviews and documentation may include development of NEPA documentation reports (4(f), air/water quality, cultural, etc.) and Wetland 404, Section 10, coastal use,, scenic stream, bridge, and levee permits from all participating agencies including LA DNR, USACOE, LA DEQ, LA DWF, and US coast guard. Recent AECOM projects include:

- ▶ **Bridge Bundling (H.016313- H.016326):** Permitting and categorical exclusion clearances for 11 Off-system bridge replacements
- ▶ **I-49 Connector (H.004273):** Leading the Supplemental Environmental Impact Statement efforts for this 7-mile I-49 Corridor project in Lafayette, LA.

AECOM ADVANTAGE

During an in-depth inspection of LADOTD's US 190 WB bridge, AECOM identified a critical finding of an over-extended bearing at Pier 16 and developed emergency rehabilitation plans to reset this superstructure component

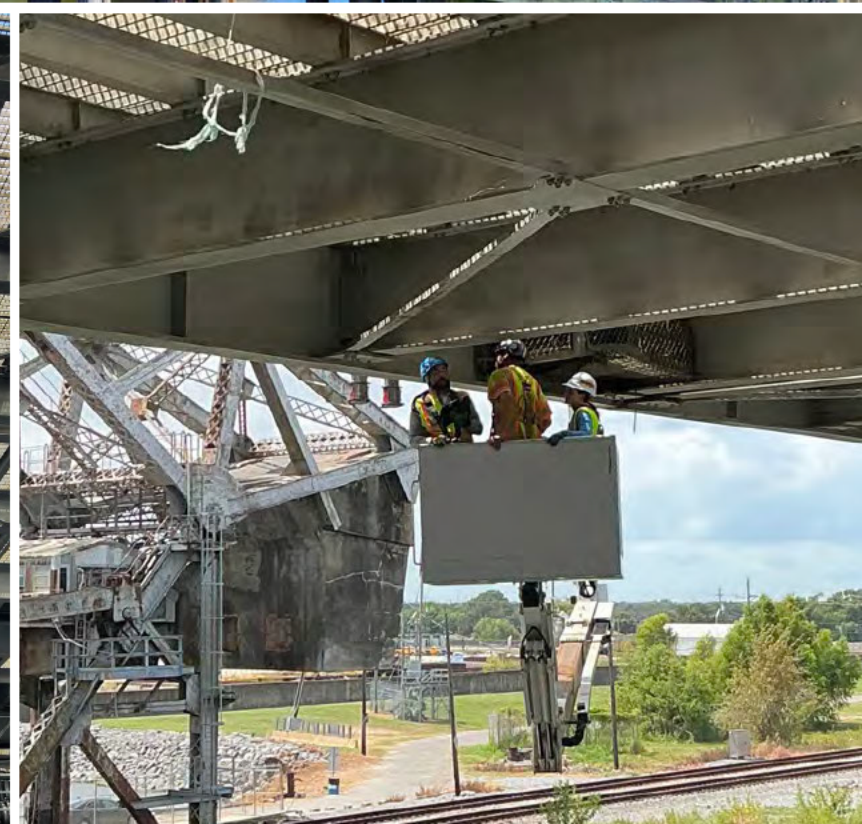
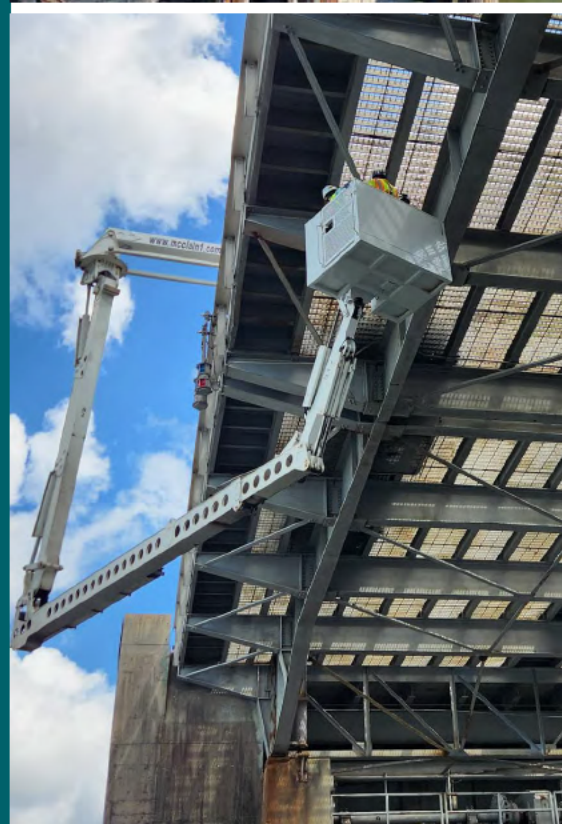


Section 19

Moveable Bridges Contract

Relevance to DOTD Bridge Preventative Services IDIQ:

Bridge Condition Assessment/Load Rating, Preventative Maintenance and Repair, Bridge Rehabilitation Recommendations, Bridge Inspection



19. Workload				
Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
AECOM Technical Services, Inc.	Bridge	44-21593; H.009859.5	TO#1 Bridge Load Rating Services	\$140,545
		44-23921	Bridge Preservation IDIQ	n/a
	Bridge	H.015603.5	LA 641 Bridge Load Rating Services	n/a
	Bridge	H.013832	LA 6 Grand Ecore	\$13,752
	Bridge	H.001970.5	LA 561 over Boeuf River	\$363,853
	Bridge	H.015519	Smith Road over Red Chute Bayou	\$7,555
	Bridge	H.011993	LA 10 Bayou Carron	\$1,489
	Road	H.016315	LA 463: Drain Bridge	\$18,787
	Road	H.016323	LA 37: Glass Branch Bridge	\$38,838
	Road	H.016324	LA 1047: Drain Bridge	\$51,127
	Road	H.016326	LA 36: Drain Bridge	\$36,846
		44-04128; H.004273.5	I-49 Connector	n/a
	Planning		Tasks 1, 5, 6, 12	\$500,935
	Traffic		Task 2	\$34,207
	Road		Task 4	\$14,923
	Bridge		Task 8	\$54,070
	Environmental		Task 10	n/a
	Environmental		Task 210	\$191,460
	Bridge		Task 301	n/a
	Bridge		Task 302	\$95,000
	Bridge		Task 408	\$114,140
		44-21513	Movable Bridge IDIQ	n/a
	Bridge	H.011969.5 – Ted Hickey	Contract 1 for Movable Bridges (LA 1264)	\$394,871
	Bridge	H.012044.5 – Grand Lake	Contract 1 for Movable Bridges (LA 384)	\$358,064
	Bridge	H.011988.5 – Duperier	Contract 1 for Movable Bridges (LA 86)	\$404,955
	Bridge	H.011973.5 - Dularge	Contract 1 for Movable Bridges (LA 315)	\$412,905

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
AECOM Technical Services, Inc. (Continued)	Bridge	H.012737.5- Bayou Bonfouca	Contract 1 for Movable Bridges (LA 433)	\$373,130
	Bridge	H.000445	US 190: UPRR Overpass near Opelousas	\$503,514
	Road	H.000445	US 190: UPRR Overpass near Opelousas	\$461,942
	Traffic	H.000445	US 190: UPRR Overpass near Opelousas	\$240,000
		44-29684	In-Depth Bridge Inspection IDIQ	n/a
	Bridge	H.009730.5	In-Depth Bridge Inspection- TO# 1	\$556,450
	Bridge	H.009730.5	In-Depth Bridge Inspection- TO# 2	\$1,568,389
	Bridge	H.009730.5	In-Depth Bridge Inspection – TO#3	\$954,288
Ardaman & Associates, Inc.	Geotech	44-4128; H.004273	I-49 Connector, Lafayette	\$740,233
	Geotech	44-18899; H.004791	LA 23: Belle Chasse Bridge & Tunnel (HBI)	\$40,545
	Geotech	44-19013; H.004100.5 & .6	I-10 CMAR Design Continuation: LA 415 TO ESSEN ON I-10 & I-12	\$897,508
	Geotech	H.004435	I-12 to Bush Construction Phase	\$39,040
	Geotech	44-8671; H.009266	I-10 Widening: LA 73 to LA 30	\$46,811
	Geotech	44-17438; H.013284	MRB GBR LA 1 to LA 30 Connector	\$3,979
	Geotech	44-6189; H.004647.6	I-20 Mississippi River Bridge at Vicksburg	\$1,270,473
	Geotech	44-25025; H.015452, H.015453, H.015456, H.015458	IIJA	\$10,461
	Geotech	44-21519; H.012030.5	KCS RR Overpasses US 371	\$39,877
	Geotech	44-21887; H.012542, H.012453, H.012047	Replacement of 15 Bridges	\$185,794
	Geotech	44-6189; H.016313.5, H.016314.5	Culvert Replacements	\$951
	Geotech	H.015430	IIJA	\$3,192
	Geotech	H.001798	LA 531: Bridges Near Dubberly	\$12,533
	Geotech	H.016094	US 371: Brushy Creek Bridge	\$36,357
	Geotech	H.016204	Benton Sidewalks & RR Crossing	\$8,550
	Geotech	H.016328.5	Canal Bridge Iberville Parish	\$14,523
	Geotech	H.016333.5	Over Bayou Bridge Evangeline Parish	\$29,577
	Geotech	H.016334.5	Over Drain Bridge Evangeline Parish	\$36,506
	Geotech	H.016335.5	Canal Bridge Iberville Parish	\$15,354
	Geotech	H.016336.5	Bayou Bridge Evangeline Parish	\$35,039
	Geotech	H.016083.5	W Worthey Sidewalks Ascension Parish	\$41,942

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Bridge Diagnostics, Inc.	Bridge	4400025002 H.009730.5	IDIQ Contract for Non-Destructive Testing/Evaluation of Structures Statewide TO5	\$294,799
	Bridge	4400025002 H.009730.5	IDIQ Contract for Non-Destructive Testing/Evaluation of Structures Statewide TO7	\$5,035
	Bridge	4400025002 H.009730.5	IDIQ Contract for Non-Destructive Testing/Evaluation of Structures Statewide TO9	\$115,918
	Bridge	4400025002 H.009730.5	IDIQ Contract for Non-Destructive Testing/Evaluation of Structures Statewide TO10	\$408,471
	Bridge	44-24187H.004647.6	I-20 Miss. R. Bridge Geotechnical & Stru IDIQ Contract for Bridge Preservation Statewide TO 15	\$145,113
	Bridge	4400023812	Mast Plan Development for the Weigh Station Assessment, Rehabilitation, and Plan Development Statewide TO3	\$27,081
Conсор North America, Inc.	Bridge	CO. #4400029206 SP #: H.009730.5	Statewide Underwater Bridge Inspections – Task Order 1	\$2,875,919
Forte & Tablada, Inc.	Survey	4400021594/H.011965.6	Task Order No. 2 - IWGO Bridge Rehabilitation (Drone Flyover)	\$47,688
	Bridge	4400021594/H.009859.5	Task Order No. 6 - Load Rate Selected Statewide Bridges	\$813,327
	Bridge	4400021594/H.009730.5	Task Order No. 8 - In-Depth Bridge Inspections	\$95,757
	Bridge	4400021594/H.015546.6	Task Order No. 9 - Caplis Sligo Road Over Red Chute Bayou	\$5,244
	Bridge	4400021594/H.009859.5	Task Order No. 10 - Statewide Bridge Rating	\$837,955
	Bridge	4400023921/H.015519.6	Task Order No. 5 - Smith Road over Red Chute Bayou	\$9,024
	Bridge	4400024589/H.014990.5	OSBR S. Tiger Bend Rd & East Achord Rd Bridges	\$41,837
	Bridge	4400013387/H.013137.5	OSBR Ouachita	\$12,089
	Bridge	4400019864/H.014318.5	OSBR Gurney Road Bridges	\$4,708
	Bridge	4400025037/H.014994.5	OSBR Bonne Idee Rd over Bonne Bayou	\$3,487
	Bridge	4400024586/H.014981.5	OSBR Hosston River Road	\$5,689
	Road	4400024641/H.005734.5	LA 447 Corridor	\$300,449
	CE&I/OV	4400023837/H.013714.6	Valhi Blvd Shared-Use Path (Houma)	\$7,598
	CE&I/OV	4400023837/H.015011.6	Local Rd Striping & Signing (Ascension)	\$242,304
	CE&I/OV	4400023837/H.013753.6	LA 428: Gen Degaulle - Old Behrman	\$228,344
	Survey	4400021532/H.010116.5	LA 1088: Soult & Trinity Roundabouts	\$22,187
	Survey	4400021532/H.012059.5	LA 19: Bridges near Zachary	\$19,490
	Survey	4400021532/H.013195.5	LA 98 Curve Realignment	\$3,753
	Survey	4400021532/H.005734.5	LA 447 Corridor Study	\$95,561

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Forte & Tablada, Inc.	Survey	4400021532/H.012563.5	LA 73: Bayou Manchac Bridge (HBI)	\$461
	Survey	4400027919/H.015587.5	LA 3211 @ Yokley Rd Roundabout	\$7,031
	Survey	4400021532/H.004100.5	I-10: LA 415 to Essen on I-10 & I-12	\$100,036
	Survey	4400031906/H.004791.6	LA 23: Belle Chasse Bridge & Tunnel (HBI)	\$72,104
	Survey	4400031925/H.007811.5	Comite River - Cypress Bayou	\$72,812
	Survey	4400030630/H.015724.5	Kings Hwy: Healthcare & Dev Corridor	\$8,800
	Survey	4400025029/H.015341	D61(EBR) IIJA Off-System Bridge	\$53,978
	Survey	4400025029/H.015341	D61(EBR) IIJA Off-System Bridge - SA 3	\$9,113
	Survey	H.004100	I-10 Capital Corridor	\$4,240
	Survey	4400004128/H.004273.5	I-49 Connector Additional ROW	\$6,692
	Survey	4400031228/H.015469.5	Shreveport Pavement Program	\$44,235
KPFF, Inc.	n/a	n/a	n/a	n/a
Marrero, Couvillon & Associates, L.L.C.	Road	H.015218	Grand Prairie Safety Rest Area Lighting	\$29,843
	Road	H.011446.6	Mound Rest Area Renovations	\$18,450
	Bridge	H.011973	Dularge Bridge Inspection Rehabilitation	\$18,981
	Bridge	H.011969	Ted Hickey Bridge Inspection Rehabilitation	\$20,160

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
T. Baker Smith, LLC	Bridge	4400025027 / MULT SP#	IIJA Off-System Bridge Program	\$24,679
	CE&I/OV	4400025760 / H.011137	I-12: LA 1077 to LA 21 (CE&I)	\$427,546
		4400031038 / H.015308	I-49: I-10 - St. Landry P/L	\$197,203
	Environmental	4400019336 / MULT SP#	Rural Bridge Replacement Initiative Phase II	\$13,804
		4400025027 / MULT SP#	IIJA Off-System Bridge Program	\$28,021
		4400031920 / H.008069	Peters Road Bridge & Extension (Phase 3)	\$180,527
	Other (Construction Support)	4400013203 / H.001344	US 190: LA 437 to US 190 Bus (Ph 1)	\$9,460
		4400025027 / MULT SP#	IIJA Off-System Bridge Program	\$102,090
	Other (Contract Management)	4400019336 / MULT SP#	Rural Bridge Replacement Initiative Phase II	\$3,988
		025027 / MULT SP#	IIJA Off-System Bridge Program	\$22,225
	Road	4400025027 / MULT SP#	IIJA Off-System Bridge Program	\$40,224
		4400024928 / H.015576 (Task Order #1)	LA 447 @ LA 1025: Roundabout	\$9,521
		4400024928 / H.015587 (Task Order #3)	LA 3211 @ Yokley Road Roundabout	\$114,621
		4400024298 / H.016095 (Task Order#4)	LA 70 Rehab: Marguerite St to US 90	\$7,870
		4928 / H.015485 (Task Order #6)	LA 3187: LA 13 - LA 13	\$129,892
		4400024928 / H.010795 (Task Order #7)	LA 42: Roundabout at Joe Sevario Road	\$81,440
	Survey	4400025027 / MULT SP#	IIJA Off-System Bridge Program	\$8,484
		4400021973 / H.011242	LA 384 (Big Lake Rd to McNeese St)	\$519,250
		4400024928 / H.015485	LA 3187: LA 13 - LA 13	\$63,857
		4400031920 / H.008069	Peters Road Bridge & Extension (Phase 3)	\$301,303
		4400021973 / H.013818	LA 308: B Lafour MB RH(Golden Meadow)(HBI)	\$55,667
	Other (Subsurface Utility Engineering)	4400025511 / H.011242.5	LA 384	\$620,767
		4400025511 / H.010005.5	LA 733 VRMLN R MB RH	\$43,841
		440002551 / H.011923.5		\$36,523

Firm(s)	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Vectura Consulting Services, LLC	CE&I/OV	4400020018 H.007160	EBR Computerized Traffic Signal, Ph VB	\$23,595
	Traffic	4400025299 H.01564.5	LA 47 Hayne Blvd Safety Improvements	\$9,437
	Traffic	4400018271 H.014746.5	LA 383 Stage 0 Corridor Study	\$20,146
	Traffic	4400025299 H.014305	US 61: Cardinal Dr to Bert St	\$6,203
	Traffic	4400026026 H.016037	LA 1138-1 & LA 1138-2: Corridor Improvements	\$135,150
	Traffic	4400025299 H.016437.5	US 190: Wooddale to Livingston P/L Study	\$41,905
	ITS	4400029436 H.006474.5	Shreveport Immediate ITS Phase 2B	\$27,561
	ITS	4400029436 H.013711.1	Northshore Phase 3 ITS Deployment	\$8,594
	ITS	4400029583 H.015137.5	Bonnet Carre ITS Upgrades	\$91,586
Wiss, Janney, Elstner & Associates	Bridge	4400001762, H.014899.6	I-10/310 Bonnet Carré Fire Damage Repair\$37,618	\$37,618
	Bridge	44-21594, H.009730.4	T-1 Steel Weld Assessment	\$13,816
	Bridge	44-25003, H.009730.5-TO1	NDE for Testing/Evaluation of Structures, TO 1	\$350,108
	Bridge	44-25003 H.009730.5-TO2	Testing/Eval of Structures, TO 2, In-Depth Bridge Inspection, UT	\$297,432
	Bridge	44-25003, H.009730.5-TO3	Testing/Eval of Structures, TO 3 , Service Life Estimates	\$115,448
	Bridge	44-25003, H.009730.5-TO4	Testing/Eval of Structures, TO 4 , Deck Scans	\$2,223,956
	Bridge	4400023923, H.014283	Danziger Bridge Electrical Repairs	\$507,231
	Bridge	DOTLT 1000428	Skew Detection Replacement on Vertical Lift	\$204,793
	Bridge	44-21515, H.012738	Movable Bridge Rehabilitation – Morbihan	\$20,438
	Bridge	44-21515, H.010004	Movable Bridge Rehabilitation – Olivier	\$32,550
	Bridge	44-21515, H.011974.5	Movable Bridge Rehabilitation – Dulac	\$1,620
	Bridge	44-21515, H.011991.5	Movable Bridge Rehabilitation – Daspit	\$32,650
	Bridge	44-21515, H.014191	Movable Bridge Rehabilitation – Nelson	\$30,256
	Bridge	4400023923, H.016537.5	West Larose Skew System Repairs	\$90,552
	Bridge	44-21513, H.012737	Bayou Bonfouca Inspection	\$14,501
	Bridge	44-21513, H.012044.5	Grand Lake Rehabilitation	\$18,866



Sections 20-23

I-76 Steel Box Girder Fatigue Repairs over I-25, CDOT

**Relevance to LADOTD Bridge
Preventative Services IDIQ:**
Bridge Rehabilitation, Preventative
Maintenance and Repair, and
Condition Assessment/Load Rating



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AECOM Technical Services, Inc.



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Name	Type	City	Status
AECOM TECHNICAL SERVICES, INC.	Business Corporation (Non-Louisiana)	LOS ANGELES	Active

Previous Names

EARTH TECH, INC. (OF CALIFORNIA) (Changed: 12/8/2008)

Business: AECOM TECHNICAL SERVICES, INC.

Charter Number: 3454599F

Registration Date: 12/03/1996

Domestic Address

515 S. FLOWER ST.
SUITE 1050
LOS ANGELES, CA 90071

Mailing Address

300 SOUTH GRAND AVENUE
9TH FLOOR
LOS ANGELES, CA 90071

Principal Business Office

300 SOUTH GRAND AVENUE
9TH FLOOR
LOS ANGELES, CA 90071

Registered Office in Louisiana

3887 PLAZA TOWER DR.
BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana

5515 CORPORATE BLVD., STE. 400B
BATON ROUGE, LA 70808

Status: Active

Annual Report Status: In Good Standing

Qualified: 12/03/1996

Last Report Filed: 11/21/2025

Type: Business Corporation (Non-Louisiana)

Registered Agent(s)

Agent	Address 1	City, State, Zip	Appointment Date
C.T. CORPORATION SYSTEM	3887 PLAZA TOWER DR.	BATON ROUGE, LA 70816	12/03/1996

Officer(s)

Officer	Title	Address 1	Address 2	City, State, Zip
ALLISON HALL	Director, Treasurer	300 SOUTH GRAND AVENUE	9TH FLOOR	LOS ANGELES, CA 90071
ARMOND TATEVOSSIAN	Secretary, Director	300 SOUTH GRAND AVENUE	9TH FLOOR	LOS ANGELES, CA 90071
KARL JENSEN	Director	300 SOUTH GRAND AVENUE	9TH FLOOR	LOS ANGELES, CA 90071
MATTHEW CRANE	Director, President	300 SOUTH GRAND AVENUE	9TH FLOOR	LOS ANGELES, CA 90071

Amendments on File (5)

Amendment	Date
Initial Filing	12/03/1996
Amendment of Chg of Chg Prin Bus Off	03/08/2008
Name Change	03/08/2008
Amendment of Chg of Chg Prin Bus Off	10/18/2015
Procedure of Ownership	03/02/2018
Appointing, Change, or Resign of Officer	03/02/2021

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Brett Canimore, PE (CBI)

AECOM Technical Services, Inc.



Henry Fix, PE (CBI)

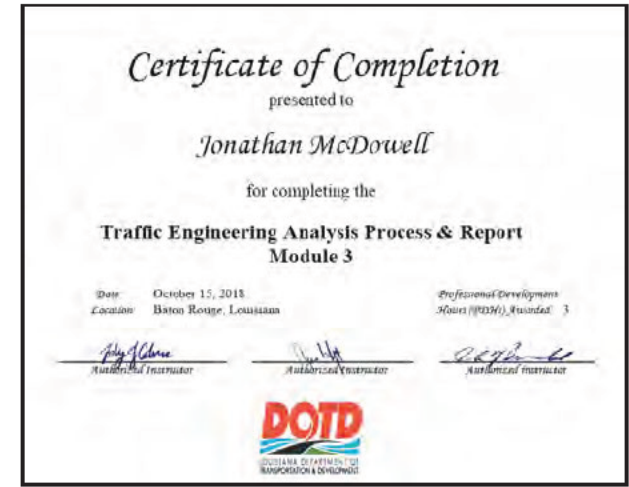
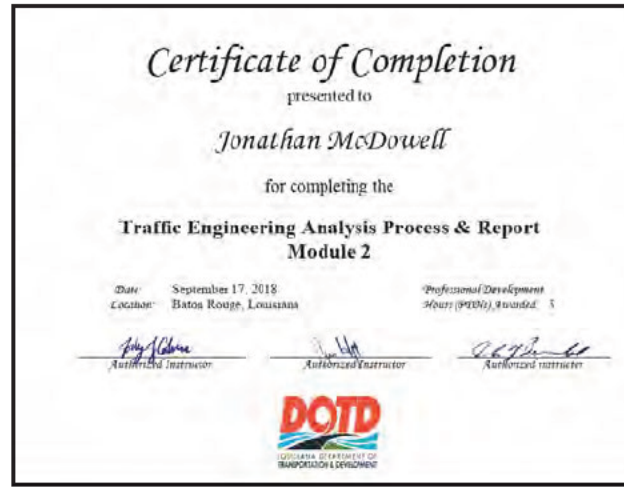
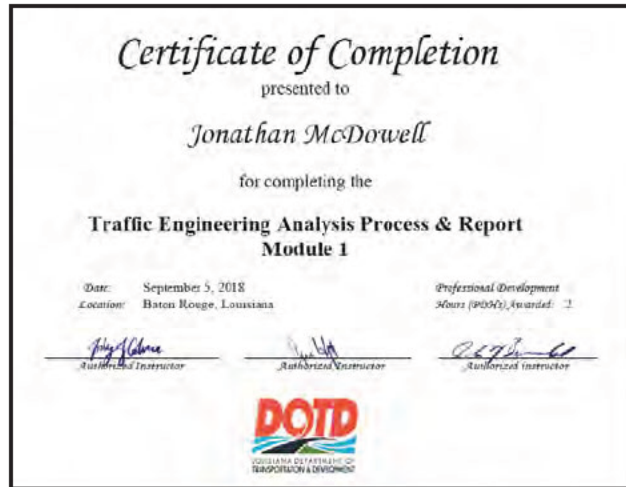
AECOM Technical Services, Inc.





Jonathan McDowell, PE

AECOM Technical Services, Inc.



Beginning Jan. 1, 2022, all flagger cards shall include a serial number. Cards issued without a serial number will not be accepted.

*National flagger certification cards shown below. Utah cards have a slightly different appearance. All serial numbers are exactly 11 characters (1 letter + 10 numbers).

Flagger Verification Search

By Flagger Number Beginning with "A":
A1000126301

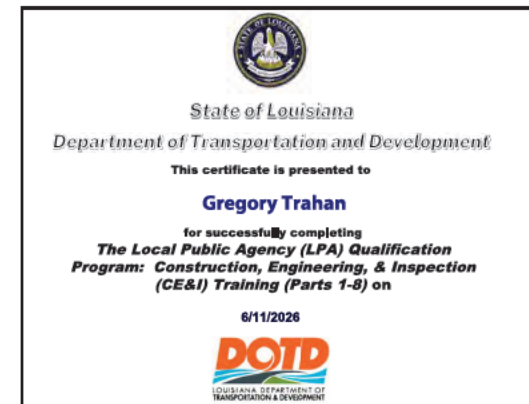
By Flagger Number Beginning with "V":

Last Name
McDowell

SEARCH

Search Results

Contact	Program	Beg Date	End Date	ATSSA Flagger Number	Trainer Flagger Number
Jonathan G McDowell	National Flagger	5/11/2023	5/10/2027	A1000126301	







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

A handwritten signature in blue ink, likely belonging to Daryl R. St. Clair.

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>



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

A handwritten signature in blue ink, likely belonging to the instructor.

Instructor

Instructor

A handwritten signature in blue ink, likely belonging to Stephen J. Sandkuhler.

Local Coordinator

Richard Barnaby, Director
National Highway Institute



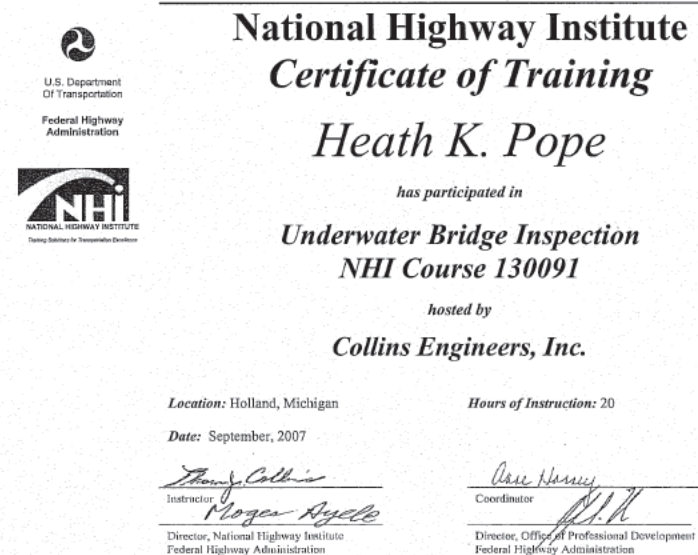
Michael Dukes, PE

CONSOR Engineering, Inc.



Heath Pope, PE

CONSOR Engineering, Inc.



Sebastien Templeton, PE

CONSOR Engineering, Inc.





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

Previous Names

Business: FORTE AND TABLADA, INC.

Charter Number: 25306090D

Registration Date: 2/8/1961

Domicile Address

9107 INTERLINE AVE.
BATON ROUGE, LA 70809

Mailing Address

9107 INTERLINE AVE.
BATON ROUGE, LA 70809

Principal Office Address

9107 INTERLINE AVE.
BATON ROUGE, LA 70809

Status

Status: Active

Annual Report Status: In Good Standing

File Date: 2/8/1961

Last Report Filed: 1/9/2025

Type: Business Corporation

Registered Agent(s)

Agent: JUSTIN T. MANNINO

Address 1: TAYLOR, PORTER, BROOKS & PHILLIPS, L.L.P.

Address 2: 450 LAUREL STREET, 8TH FLOOR

City, State, Zip: BATON ROUGE, LA 70801

Appointment Date: 8/21/2020

Officer(s) Additional Officers: No

Officer: RUSSELL JOSEPH COCO, JR.

Title: Director, President

Address 1: 9107 INTERLINE AVENUE

City, State, Zip: BATON ROUGE, LA 70809

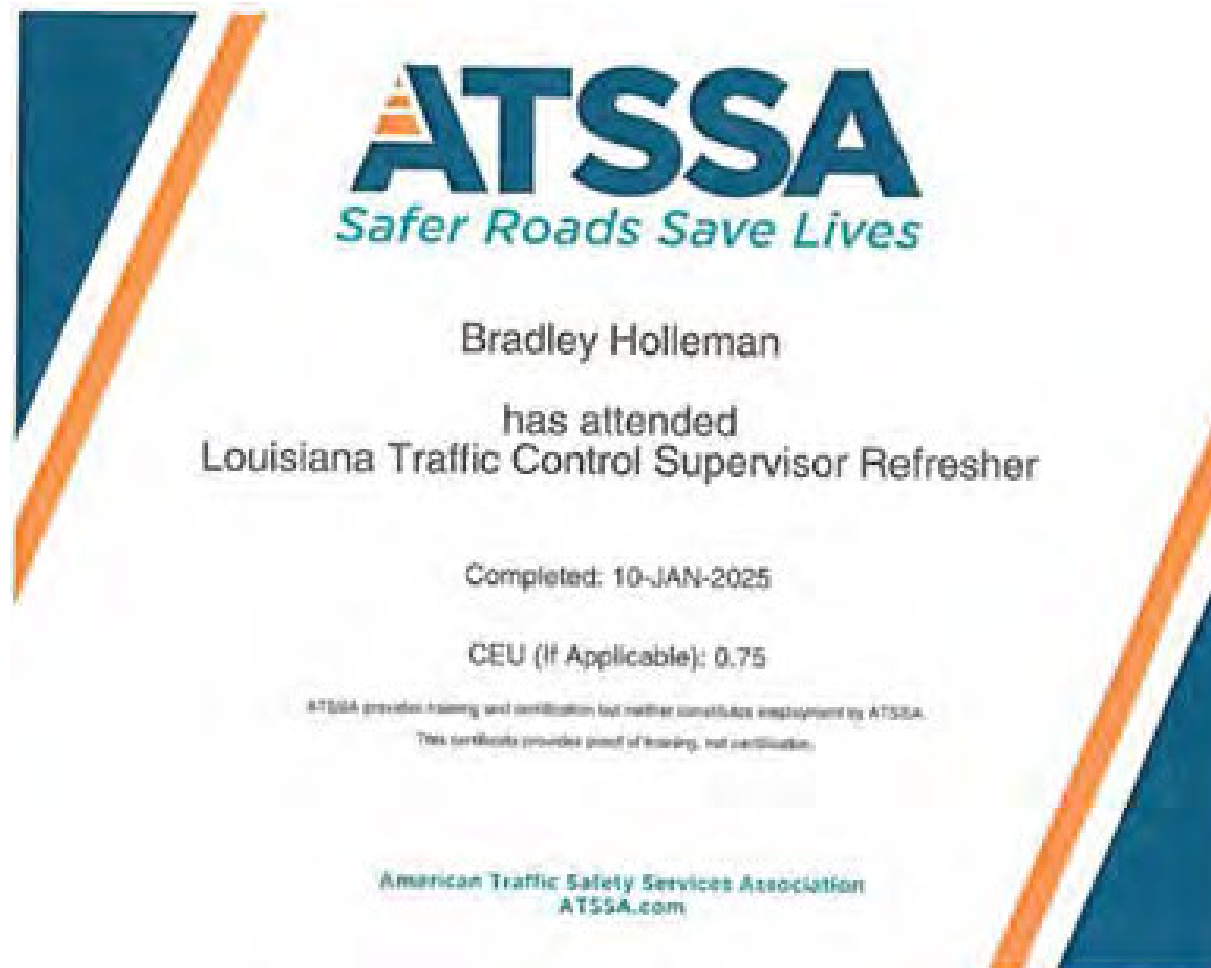
Officer: CHAD A. BACAS

Title: Executive Vice-President, Director

Address 1: 9107 INTERLINE AVENUE

City, State, Zip: BATON ROUGE, LA 70809





Trenton Iglehart	Forte & Tablada
------------------	-----------------





PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Ross Wilson

has attended

Traffic Control Supervisor-LA State Specific

Training Course

4/5/2023 to 4/5/2027
Training Valid Through

Baton Rouge, LA
Location

Vice President of Educational Technical Services

President, CEO

ATSSA provides training and certification for traffic control personnel by ATSSA.



American Traffic Safety Services Association ATSSA.com



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Name	Type	City	Status
T. BAKER SMITH, LLC	Limited Liability Company	HOUMA	Active

Previous Names
T. BAKER SMITH, L.L.C. (Changed: 3/23/2011)
T. BAKER SMITH, INC. (Changed: 12/13/2010)
T. BAKER SMITH & SON, INC. (Changed: 4/20/2005)

Business: T. BAKER SMITH, LLC
Charter Number: 26901340K
Registration Date: 1/7/1965

Domicile Address
412 SOUTH VAN AVENUE
HOUMA, LA 70363

Mailing Address
P.O. BOX 2266
HOUMA, LA 70361

Status
Status: Active
Annual Report Status: In Good Standing
File Date: 1/7/1965
Last Report Filed: 12/9/2024
Type: Limited Liability Company

Registered Agent(s)
Agent: KENNETH W. SMITH
Address 1: 412 SOUTH VAN AVENUE
City, State, Zip: HOUMA, LA 70363
Appointment Date: 10/29/2001

Officer(s) Additional Officers: No
Officer: KENNETH W. SMITH
Title: Manager
Address 1: 412 SOUTH VAN AVENUE
City, State, Zip: HOUMA, LA 70363

Rene Hebert, PLS

T. Baker Smith



Certificate of Training

this certifies that

Jean Reulet

*has successfully completed the training
program requirements for*

ATSSA Online Flagger Certification Training Course



Awarded on this **29th** *day of* **October 2021**

T.J. Stokes, PE

T. Baker Smith



PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

TJ B Stokes

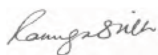
has attended

Traffic Control Supervisor-LA State Specific

Training Course

11/30/2022 to 11/30/2026
Training Valid Through

Baton Rouge, LA
Location


Director of Training


President, CEO

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



American Traffic Safety Services Association ATSSA.com

Vectura Consulting Services, LLC



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Name	Type	City	Status
VECTURA CONSULTING SERVICES, LLC	Limited Liability Company	BATON ROUGE	Active

Previous Names
Business: VECTURA CONSULTING SERVICES, LLC
Charter Number: 41994609K
Registration Date: 8/24/2015

Domicile Address
4467 BLUEBONNET BLVD.
SUITE A
BATON ROUGE, LA 708099639

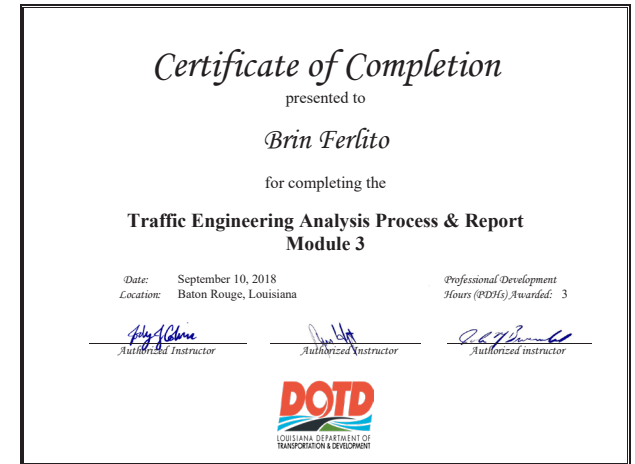
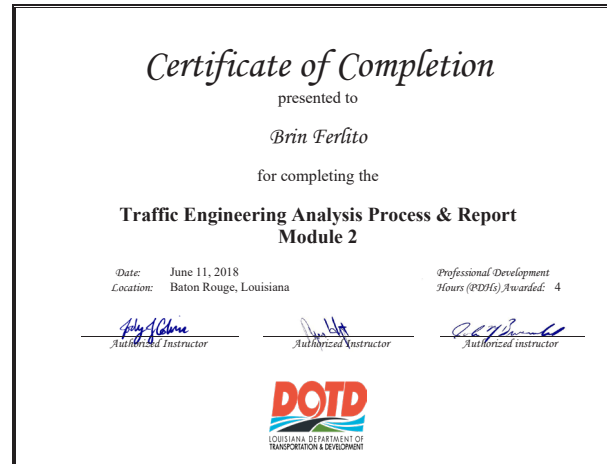
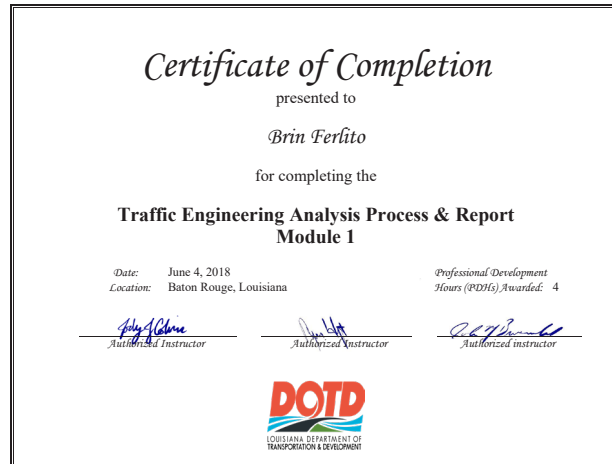
Mailing Address
PO BOX 14269
BATON ROUGE, LA 70898

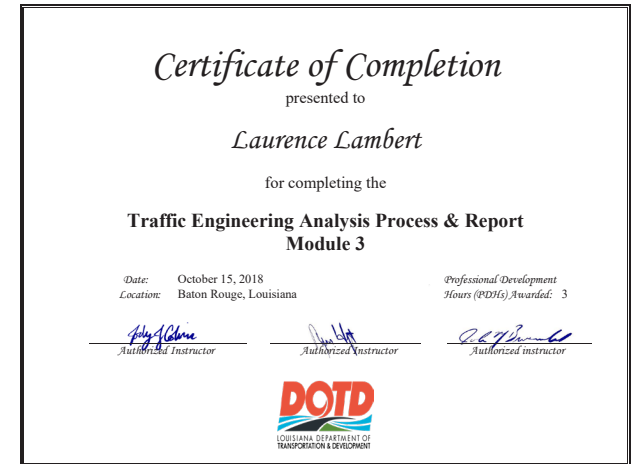
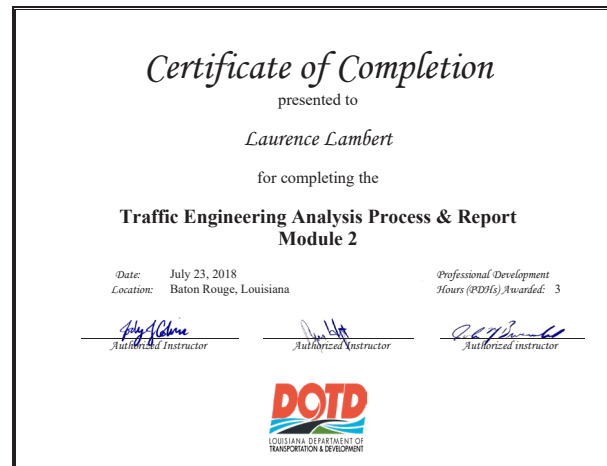
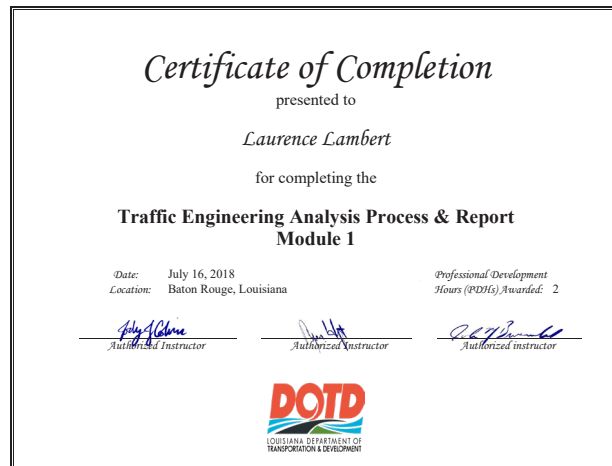
Status
Status: **Active**
Annual Report Status: **In Good Standing**
File Date: 8/24/2015
Last Report Filed: 7/30/2025
Type: Limited Liability Company

Registered Agent(s)
Agent: SHEELAGH BRIN FERLITO
Address 1: 4467 BLUEBONNET BLVD
Address 2: SUITE A
City, State, Zip: BATON ROUGE, LA 708099639
Appointment Date: 8/15/2018

Officer(s)
Officer: SHEELAGH BRIN FERLITO
Title: Manager
Address 1: 4467 BLUEBONNET BLVD
Address 2: SUITE A
City, State, Zip: BATON ROUGE, LA 708099639

Additional Officers: No





Laurence Lambert
has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 27-APR-2026

CEU (If Applicable): 0.75

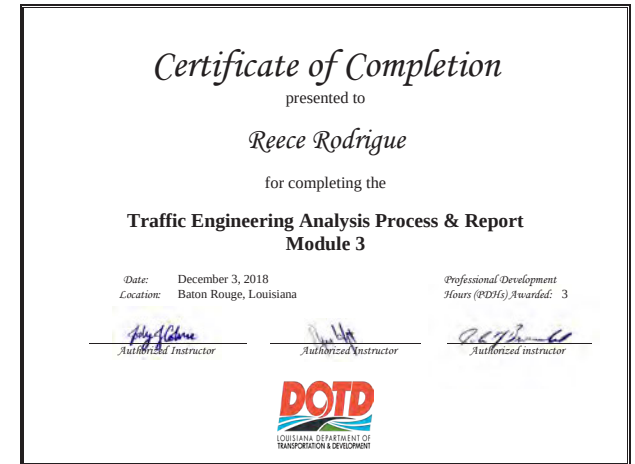
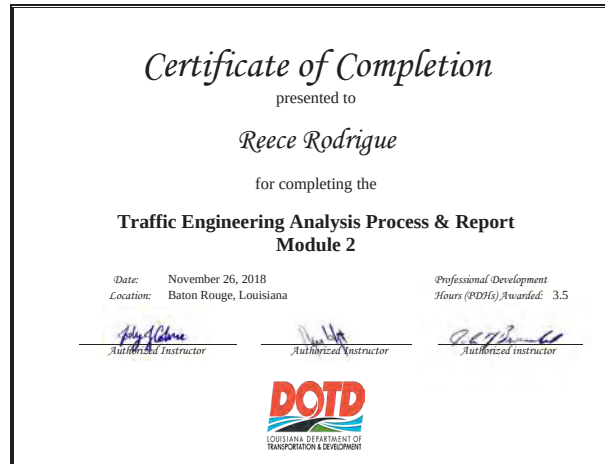
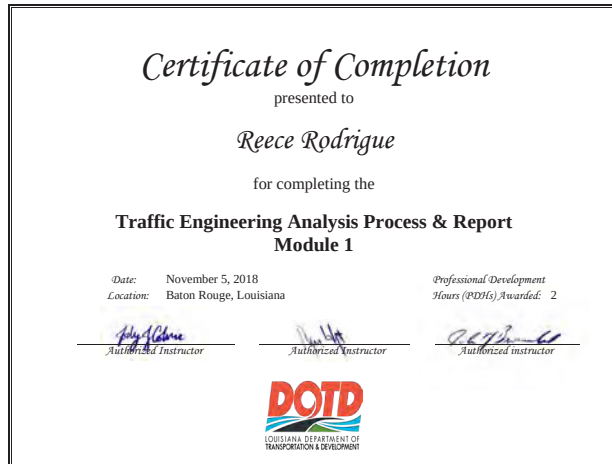
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This certificate provides proof of training, not certification.

American Traffic Safety Services Association
ATSSA.com



American Traffic Safety Services Association
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www.atssa.com





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Name	Type	City	Status
WISS, JANNEY, ELSTNER ASSOCIATES, INC.	Business Corporation (Non-Louisiana)	NORTHBROOK	Active

Previous Names

Business: WISS, JANNEY, ELSTNER ASSOCIATES, INC.

Charter Number: 34520200F

Registration Date: 3/4/1996

Domicile Address

330 PFINGSTEN RD.
NORTHBROOK, IL 60062

Mailing Address

330 PFINGSTEN RD.
NORTHBROOK, IL 60062

Principal Business Office

330 PFINGSTEN RD.
NORTHBROOK, IL 60062

Registered Office in Louisiana

8550 UNITED PLAZA BLVD., SUITE 702
BATON ROUGE, LA 70809

Principal Business Establishment in Louisiana

5615 CORPORATE BLVD., STE. 400B
BATON ROUGE, LA 70808

Status

Status: **Active**

Annual Report Status: **In Good Standing**

Qualified: 3/4/1996

Last Report Filed: 2/27/2025

Type: Business Corporation (Non-Louisiana)

Registered Agent(s)

Agent: LEGALINC CORPORATE SERVICES INC.

Address 1: 8550 UNITED PLAZA BLVD., SUITE 702

City, State, Zip: BATON ROUGE, LA 70809

Appointment Date: 6/28/2022

Leonard Phelps, SSPC

Wiss, Janney, Elstner Associates, Inc.



Secretary of State Certificates

Ardaman & Associates, Inc.; **Marrero, Couvillon & Associates, L.L.C.;**
KPFF, Inc.; **Bridge Diagnostics, Inc.**

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

Previous Names
Business: ARDAMAN & ASSOCIATES, INC.
Charter Number: 3436031F
Registration Date: 12/13/1991

Domicile Address
8068 SOUTH ORANGE AVENUE
ORLANDO, FL 32209

Mailing Address
3475 E. FOOTHILL BLVD.
PASADENA, CA 91107

Principal Business Office
8068 SOUTH ORANGE AVENUE
ORLANDO, FL 32209

Registered Office in Louisiana
3067 PLAZA TOWER DR.
BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana
319 HIGHLANDIA DR.
BATON ROUGE, LA 70816

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

Registered Agent(s)
Agent: C.T. CORPORATION SYSTEM
Address 1: 3067 PLAZA TOWER DR.
City, State, Zip: BATON ROUGE, LA 70916
Appointment Date: 12/13/1991

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Name	Type	City	Status
MARRERO, COUVILLON & ASSOCIATES, L.L.C.	Limited Liability Company	BATON ROUGE	Active

Previous Names
Business: MARRERO, COUVILLON & ASSOCIATES, L.L.C.
Charter Number: 3480418K
Registration Date: 12/31/1997

Domicile Address
2844 SOUTH SHERWOOD FOREST BLVD, SUITE 200
BATON ROUGE, LA 70816

Mailing Address
2844 SOUTH SHERWOOD FOREST BLVD
SUITE 200
BATON ROUGE, LA 70816

Status
Status: Active
Annual Report Status: In Good Standing
File Date: 12/31/1997
Last Report Filed: 12/1/2025
Type: Limited Liability Company

Registered Agent(s)
Agent: ALLEN DARDEN
Address 1: 17804 PRESTWICK AVE.
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Appointment Date: 7/10/2013

Officers(s) **Additional Officers: No**
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Louisiana
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Name	Type	City	Status
KPFF, INC.	Business Corporation (Non-Louisiana)	SEATTLE	Active

Previous Names
Business: KPFF, INC.
Charter Number: 35080360F
Registration Date: 6/13/2005

Domicile Address
1001 FIFTH AVE
STE 1300
SEATTLE, WA 98101

Mailing Address
1001 FIFTH AVE
STE 1300
SEATTLE, WA 98101

Principal Business Office
1001 FIFTH AVE
STE 1800
SEATTLE, WA 98101

Registered Office in Louisiana
450 LAUREL STREET, 8TH FLOOR
BATON ROUGE, LA 70801

Principal Business Establishment in Louisiana
450 LAUREL STREET, 8TH FLOOR
BATON ROUGE, LA 70801

Status
Status: Active
Annual Report Status: In Good Standing
Qualified: 6/13/2005
Last Report Filed: 6/1/2026
Type: Business Corporation (Non-Louisiana)

Registered Agent(s)
Agent: CORPORATION SERVICE COMPANY
Address 1: 450 LAUREL STREET, 8TH FLOOR
City, State, Zip: BATON ROUGE, LA 70801

Louisiana
SECRETARY OF STATE **NANCY LANDRY**

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Name	Type	City	Status
BRIDGE DIAGNOSTICS, INC.	Business Corporation (Non-Louisiana)	LOUISVILLE	Active

Previous Names
Business: BRIDGE DIAGNOSTICS, INC.
Charter Number: 40760203F
Registration Date: 2/27/2012

Domicile Address
740 S PIERCE AVE
UNIT 15
LOUISVILLE, CO 80027

Mailing Address
4300 S I-10 SERVICE RD W
SUITE 210
METAIRIE, LA 70001

Principal Business Office
740 S PIERCE AVE
UNIT 15
LOUISVILLE, CO 80027

Registered Office in Louisiana
8550 UNITED PLAZA BUILDING II, STE. 305
BATON ROUGE, LA 70809

Principal Business Establishment in Louisiana
4300 S I-10 SERVICE RD W
SUITE 210
METAIRIE, LA 70001

Status
Status: Active
Annual Report Status: In Good Standing
Qualified: 2/27/2012
Last Report Filed: 2/10/2026
Type: Business Corporation (Non-Louisiana)

Registered Agent(s)
Agent: CAPITOL CORPORATE SERVICES, INC.
Address 1: 8550 UNITED PLAZA BUILDING II, STE. 305

21. QA/QC Plan:

QA/QC Section starts on the following page.



QA/QC

Plan

IDIQ CONTRACTS FOR BRIDGE PRESERVATION SERVICES STATEWIDE

QC/QA PLAN

Contract Nos. 4400035420, 4400035421, AND 4400035422

Louisiana Department of Transportation and Development

June 30, 2026

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1.0 INTRODUCTION TO THE IDIQ Contracts for Bridge Preservation Services Statewide QC/QA PLAN

A QC/QA program is an essential component of a successful project. The process, when executed properly by a committed design team, will eliminate critical errors and conflicts in the design and improve plan completeness and accuracy. Most importantly, the process promotes confidence in the owner and engineer that the design and construction documents reduce liability and risk to them. The QC/QA plan for the IDIQ Bridge Preservation Services will meet or exceed the LADOTD's QC/QA policy described in the LADOTD Bridge Design and Evaluation Manual (BDEM). LADOTD has detailed a Bridge QC/QA policy which sets forth the Department's requirements for this process for all bridge designs performed on LADOTD projects. The LADOTD Bridge QC/QA policy was developed based on the joint FHWA/AASHTO publication "*Guidance on QC/QA in Bridge Design in Response to NTSB Recommendation*" in August of 2011. This QC/QA Plan has been developed in coordination with both the LADOTD and AECOM policies specifically for the IDIQ Contracts for Bridge Preservation Services Statewide.

1.1 Alignment of LADOTD and AECOM QC/QA Policies

The LADOTD policy is well aligned with AECOM's QA/QC program, internally named Quality Management System (QMS). AECOM's QMS is BS EN ISO 9001:2015 International Standard certified; AECOM's QMS policy specifics, as described in the paragraphs below, meet or exceed the directives provided in the LADOTD's Bridge QC/QA policy. A copy of our current certification can be provided upon request. One key difference in the two policies is that the LADOTD Bridge QC/QA policy is specific to the design of bridges exclusively, while the AECOM QMS is applicable to all disciplines associated with a specific project.

AECOM is fully committed to the quality management principles underlying the ISO 9001:2015 standard and to AECOM's QMS. These principles emphasize the need to understand our clients' needs and preferences, and to strive to meet or exceed their requirements and expectations. To accomplish this goal, AECOM's Executive Management provides leadership that engages all AECOM employees in the quality processes. By identifying, understanding, and managing interrelated processes as a system, AECOM increases its efficiency and effectiveness in meeting its organizational objectives as well as the objectives of our clients. This approach includes continuous reassessment and improvement of the underlying processes and promotes decision-making based on factual information and data. Through consistent application of this QMS, AECOM's opportunity to create mutually beneficial values is enhanced, which in turn enhances our clients' ability to create value for their end users.

1.2 Responsibility for QC/QA and the LADOTD's Oversight Role

From review of LADOTD's Bridge QC/QA policy, it is apparent that the primary expectation is that consulting engineers contracting with LADOTD take full responsibility for their submittals at all stages of the bridge design process. By the assignment of this responsibility, LADOTD's design staff expects to provide oversight on the design process but does not expect to be responsible for the checking of designs and plan documents. The role of LADOTD's design staff is primarily to oversee the design

process. Specifically, the LADOTD's Task Manager will be responsible for the following project tasks, as described in LADOTD's Bridge QC/QA policy:

- Develop the scope of work, man-hour estimate, design team minimum personnel requirements, selection evaluation criteria and to obtain the approval of the Task Manager's direct supervisor for these items. In addition, the Task Manager will coordinate directly with LADOTD's project manager on all bridge design requirements for preparation of the project kickoff.
- Initiate a kickoff meeting, covering items such as the staffing plan, QC/QA plan, project schedule and budget, share expectations and consultant rating criteria, bridge design criteria, and other project management agenda items per the LADOTD checklist.
- Review and approve the Design Criteria and TS&L submittals. Coordinate revisions in the Design Criteria with the design team for the project duration.
- Monitor the Design Team's implementation of their QC/QA plan.
- Maintain a Project Log sheet recording all major project activities (Project Meetings, Submittals, LADOTD Review Comments, Major Decisions, etc.).
- Review all Design Team submittals, intended to be a cursory review for constructability, consistency, and clarity. These reviews are not intended to be a secondary QC of the Design Team's work.
- Monitor project schedule and milestone deliverables.
- Monitor Design Team effort with respect to scope and budget; process supplemental agreements; monitor claims avoidance.
- Review and approve invoices; verify Design Team staff is consistent with the scope and fee; Review and approve qualifications of replacement staff proposed by the Design Team, if necessary.
- Perform a consultant rating for each formal submittal by the Design Team; share ratings and provide feedback to the Design Team.
- Archive final design files.

1.3 Definitions of QC and QA

An understanding of the definition of quality control (QC) and quality assurance (QA), as well as the responsibilities contained in these processes, is a critical component of AECOM's QMS and LADOTD's Bridge QC/QA policy. These key definitions are summarized below:

- **Quality Control (QC):** This process involves the procedure of checking the accuracy and consistency of calculations and drawings, detecting conflicts, design errors and omissions, and the procedure for resolution of internal comments, correcting and verification of revisions. Also, specific to this bridge replacement project, the process verifies that all bridge components are adequately designed for the specified limit states in the AASHTO LRFD Bridge Design Specifications and the LADOTD BDEM and Technical Memoranda, as applicable.
- **Quality Assurance (QA):** This process involves the review of the QC documents to verify that the quality control (QC) procedure has been completed in accordance with AECOM's QMS and the LADOTD Bridge QC/QA policy. In addition, the QA process verifies that the QC process was effective in preventing design and plan errors and ensuring consistency.

1.4 Evidence/Verification of QC and QA Activities

AECOM's QMS fully documents the QC and QA processes for all intermediate and final submittals, providing evidence to LADOTD that our design team has executed the QC/QA procedures in accordance with this system.

2.0 ROLES AND RESPONSIBILITIES

Meeting the provisions of the LADOTD Bridge QC/QA policy, the AECOM QMS requires that the quality control processes be completed for all design disciplines for all submittals. For the IDIQ Bridge Preservation Services Contract, as it pertains to QC/QA, the roles and responsibilities of the design team are described below.

2.1 Quality Assurance Manager

AECOM's QA Manager will be responsible for verifying that the QC process has been completed, documented, and properly filed in project records. The QA Manager will oversee the communication and training of the QC procedures to the project team, including subconsultants. The QA Manager is responsible for certifying that a submittal deliverable has met the requirements of the AECOM QMS and the LADOTD Bridge QC/QA policy, can be released to the client, and is made available for future auditing purposes.

2.2 Original Designers and CADD Design Personnel

The original designers are responsible for original design calculations and plan drawings in accordance with the direction provided by the Project Plan and associated pre-planning references and design tools (i.e. – Design Criteria, Technical Task Protocols, Design Tools, Validated Software, etc.). In the QC/QA process, the original designers are responsible for the timely, complete, and effective preparation of the calculations and plans, incorporating weekly design coordination directives during the design development. Original designers will perform a self-check of their work before indicating the work product is ready for QC Review. The original designers may be professional engineers or engineering interns.

The original designers are responsible for actively resolving comments received at each level of QC (Discipline, Independent Peer, and Inter-Discipline) and for making the necessary corrections in advance of the next level of QC or QA reviews. All design personnel (Engineering and CADD designers) will be trained in the QC/QA procedures by the Quality Assurance Manager. Evidence of the training (sign in sheets, copy of training course) will be filed in the project directory, available for audit.

CADD design personnel are responsible for effective preparation of project plans, as supervised by the original designers. Original designers shall work collaboratively with CADD personnel to have project plans match their design. CADD personnel will perform a self-check of their work before the work product is submitted for QC review.

2.3 Discipline QC Reviewers

This level of review will be completed by experienced engineers who are responsible for the detailed checking of all calculations, specifications, special provisions, and plan documents. For the IDIQ Bridge Preservation Services Contract, we anticipate this level of review will be completed by AECOM staff. The specialized work performed by subconsultants will be reviewed by the appropriate AECOM Project Leader, as indicated by the organizational chart. For the IDIQ Bridge Preservation Services Contract, the original design calculations for critical components will be prepared by a professional engineer, and the

Discipline QC reviewer may be another professional engineer or an engineer in training (EIT). This approach agrees with LADOTD's bridge design policy.

The Discipline QC reviewer will be responsible for documenting all comments, pursuing resolution with the original designer or detailer and for progressing the QC documents (calculations, plans, and QC forms) to completion prior to forwarding to the Independent Peer QC and Inter-Discipline QC reviewers. The Discipline QC reviewers will be trained in the QC/QA procedures by the Quality Assurance Manager. Evidence of the training (sign in sheets, copy of training course) will be filed in the project directory, available for audit.

2.4 Independent Peer Bridge QC Reviewers

If deemed necessary, an Independent Peer Bridge QC review will proceed after the Discipline QC review has been completed and may take place in parallel sequence with the Inter-Discipline QC review. The Independent Peer Bridge QC team is responsible for documentation of comments, pursuing resolution with the original designer or detailer (with LADOTD representative oversight and documented concurrence). The purpose of this participation is to provide independent oversight of the design development and is intended to identify potential critical conflicts or issues in the design. This process results in keeping the design team progressing the work on the most effective and desirable path. The Independent Bridge QC reviewers will be trained in the QC/QA procedures by the Quality Assurance Manager. Evidence of the training (sign in sheets, copy of training course, etc.) will be filed in the project directory, available for audit.

2.5 Inter-Discipline QC Reviewers

This level of review will be completed by Discipline Project Leaders (i.e. – Bridge, Roadway, MOT, CADD, etc.) who are responsible for an oversight review of the plans intended to identify conflicts between the disciplines and to identify plan consistency issues not identified in the more detailed Discipline QC review. For the IDIQ Bridge Preservation Services Contract, we anticipate this level of review will be completed by Discipline Leads, comprising of AECOM and our subconsultant partners as indicated in the organization chart. This level of review is required by AECOM's QMS policy.

The Inter-Discipline QC reviewer will be responsible for documenting all comments, pursuing resolution with the original designer or detailer and for progressing the QC documents (plans and QC forms, etc.) to completion prior to forwarding to the Quality Assurance Manager for his QA review. All design personnel, including each Inter-Discipline QC reviewer, will be trained in the QC/QA procedures by the Quality Assurance Manager. Evidence of the training (sign-in-sheets, copy of training course, etc.) will be filed in the project directory and available for audit.

2.6 Engineer of Record

The Engineer(s) of Record (EOR) for the IDIQ Bridge Preservation Services Contract will be assigned by the supervisor or discipline lead on the project team. The EOR is responsible for the supervision of the calculations, plan, and special provision preparation, and is responsible for participation in or oversight of the QC and QA review processes. The EOR must be licensed to practice engineering in the State of Louisiana and must have demonstrated experience in the design of similar structures. In addition to overseeing the calculations and plan submittal through the QC/QA process, the EOR is responsible for

obtaining the seal and signature of any and all co-signed sheets in the plans. The EOR is also responsible for assembling the complete final calculation documents in the format prescribed by the LADOTD, assuring that all plan sheets include the designer's, design checker's, detailer's, and detail checker's initials and for sealing and ensuring special provisions are accurately shown on the construction proposal.

The Engineer of Record will be trained in the QC/QA procedures by the Quality Assurance Manager. Evidence of the training (sign in sheets, copy of training course) will be filed in the project directory, available for audit.

3.0 PRE-PLANNING ACTIVITIES

Both LADOTD's and AECOM's QC/QA policies contain careful project execution planning, document control procedures, communication protocols and specific QC and QA procedures.

3.1 Development of the Project Plan and Design Criteria

The AECOM team will prepare a Project Plan for distribution to the design team. The plan will contain:

- A project background description and scope summary
- A design criteria document prepared in compliance with the LADOTD's checklist. The design criteria document will be submitted to the LADOTD for review and concurrence
- Identification of the project team members, organization chart, contact information, and guidance on internal and external communication
- Identification of all deliverables
- Project design schedule and task budgets
- Description of the project directory structure, filing of external communication and file naming conventions, etc.
- Organization of calculations documents, in compliance with the LADOTD's QC/QA policy
- QC and QA procedures, responsibilities, and documentation of QC/QA training
- Specific technical task protocols, design tool templates and design tool validation documentation
- Templates of all project forms [Letters, Memorandums, Meeting Minutes, Reports, Cost Estimates, Design tool validation forms, Drawing and Calculation QC forms (LADOTD and AECOM)], Quality Assurance forms (LADOTD and AECOM) to use on the project
- Description of internal project quality auditing, continual improvement, and client feedback processes

The project plan is a living document, and will be revised as the design criteria, scope or other internal procedure is revised. As stated in the LADOTD's QC/QA policy, revisions in the design criteria will be forwarded to the LADOTD for review and concurrence.

3.2 Project Directory Structure and Bridge Calculation Document Organization

The AECOM QMS policy has established a standardized project directory structure for the documentation of all projects delivered by AECOM. However, this structure may be modified to meet specific requirements of the client, as is the case with LADOTD, who has provided the preferred project directory structure in Appendix F of their Bridge QC/QA policy. The structural calculations will be organized as directed in Appendix F of the LADOTD Bridge QC/QA policy.

3.3 Development of Technical Task Protocols, Design Tools, and Validation of Software

The design team will prepare technical task protocols for the purpose of documenting and providing detailed direction on specific design tasks. The protocols will provide direction on the specific use of design tools and validated software involved in the completion of the task. The documents will be controlled; revisions to the protocols will be noted by revision number and updated in the Project Plan.

All revisions to task protocols will be communicated to design staff. Design Tools (i.e. – Spreadsheets, MathCAD sheets, etc.) will be developed and utilized for specific design calculation functions. All design tools that are prepared will be validated as required by the AECOM QMS, documented, filed and available for audit.

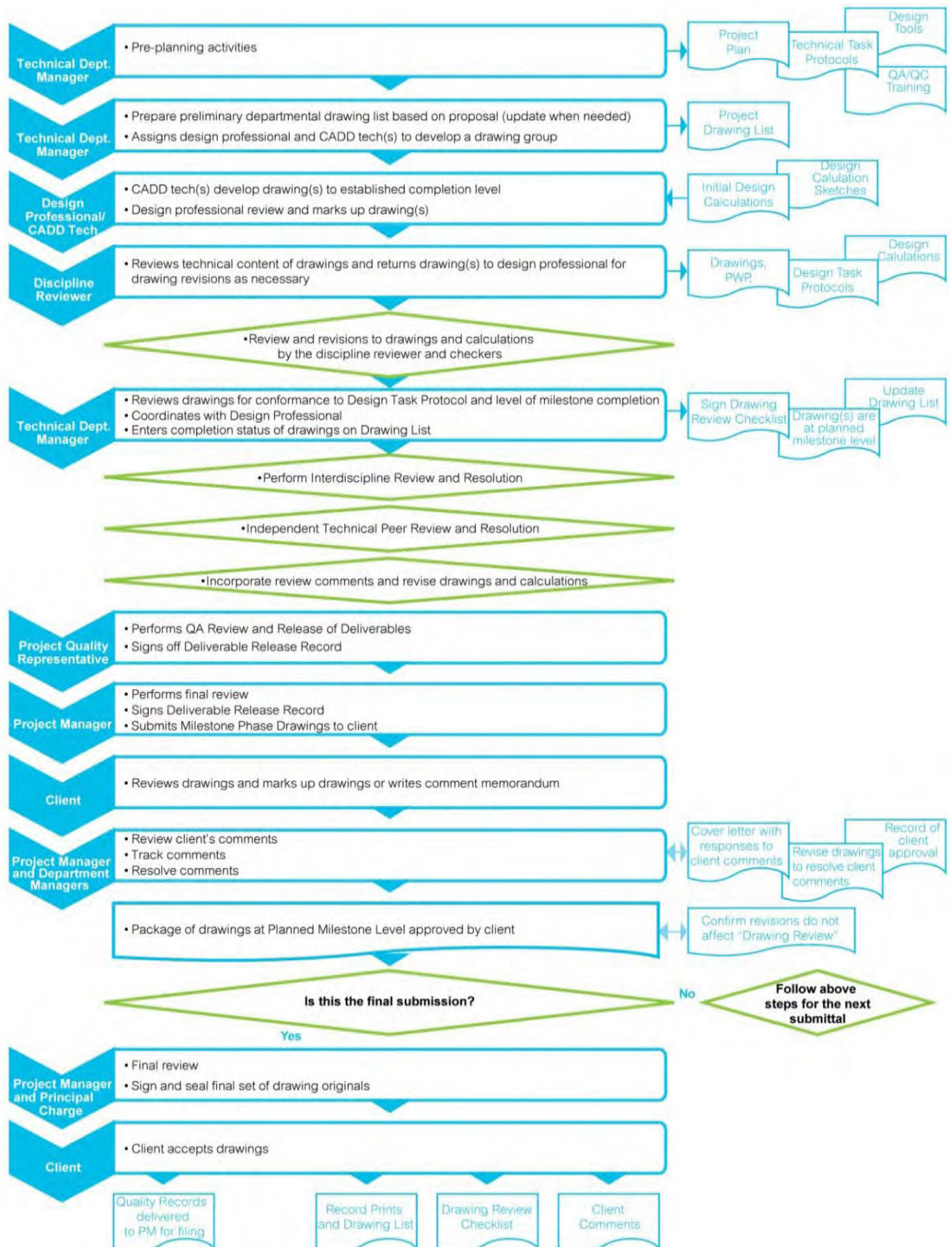
To the extent possible, the design team will select from the pre-approved list of software posted on the LADOTD Bridge Design website. Before using the pre-approved software, the program will be validated as directed in the AECOM QMS prior to use. For special applications where software not included in the pre-approved list must be used, a synopsis of the software will be provided to the LADOTD Bridge Design Engineer for approval prior to use. Similar to the pre-approved software, all specialty software will be validated as directed in the AECOM QMS prior to use.

4.0 QUALITY CONTROL AND QUALITY ASSURANCE REVIEWS

4.1 Design Deliverable Activities

As indicated by the Scope of Services, formal submittals for review by LADOTD staff are expected at the preliminary (30%, 60%, 90%, 100%) and final plan (30%, 60%, 90%, 98%, & 100%) development phases. The plan-in-hand meeting will be performed based on the preliminary submittal. In addition, an independent review of the preliminary submittals will be performed by LADOTD. Comments from these reviews must be resolved prior to proceeding to the final plan milestone.

Prior to each of the formal submittals, a 3-tiered quality control (QC) design review will be performed as well as a quality assurance (QA) review. A flowchart describing the QC/QA process for design plans on the IDIQ Bridge Preservation Services Contract and our approach to implementation of these procedures is described below.



4.2 Discipline Level QC Review of Inspection & Condition Assessment Reports, Calculations and Drawings

In this first tier of QC review, a detailed review of inspection findings and site information is performed. A similar QC review will be performed on design calculations and drawings if required by the project's scope. Preceding the review, design development for the design phase is completed. Design activity is in a "pencils down" mode and review sets are produced. In the Discipline QC, all inspection findings, design calculations and drawings are thoroughly checked for accuracy, completeness, and for compliance with the project's design task protocols. The reviewer is designated as an engineer within the Quality Control Team. The review is documented in the calculations and drawings using a check print stamp and a color-coded mark as indicated below:

- Yellow – Confirmed
- Black – General comment or suggestion
- Red – Correction to be made
- Green checkmark or text – Backcheck and concurrence with comment or other resolution
- Blue circle – Indicates correction was made
- Pink circle – verification by the reviewer that the comment was addressed

Once the Discipline QC review of the reports, drawings, and calculations is completed, verified, and documented using AECOM-based and LADOTD-based checklists, the reports, drawings, and calculations are designated as ready for an independent peer review for LADOTD in parallel with an Inter-Discipline QC Review. Issues that cannot be resolved between the Discipline QC reviewer and the original designer will be elevated to the design team leader or deputy project manager for resolution. These processes are described below.

4.3 Independent Peer QC Review of Inspection & Condition Assessment Reports, Calculations and Drawings

In the next tier of QC review (for items deemed necessary), an independent peer review is performed by an independent design team. AECOM will coordinate any independent reviews deemed necessary. The peer review of the structural design drawings and calculations will be completed using the independent design check method. Preceding the Independent Peer review, the Discipline QC review will be completed, and design activity is in a "pencils down" mode. If structural replacement is deemed necessary, drawing and calculation sets are produced for review and comparison with the independent design, as described in the paragraphs below.

Using the drawing review set, the peer review team will perform analysis and design calculations by independent means and design tools. The independent review will confirm the adequacy of the design and resolve any design discrepancies between the designer and reviewer. Once resolved, if necessary, the original calculations will be further revised to reduce or eliminate the difference in design results. This process is documented in forms, with participants, including LADOTD staff, signing off on resolved issues. The independent calculations will be documented in a separate volume of the calculation set. In addition, the post-Discipline review drawing set will be reviewed by the peer review team. Comments will be documented in the forms noted above and resolved in a similar fashion.

In addition to formal review periods, the peer reviewer may participate in “over the shoulder” review meetings during the design process. The purpose of these reviews is to identify potential pitfalls with the direction the design team is taking and to assist in developing corrective action in a timely manner to avoid significant rework in later stages of the design completion.

4.4 Inter-Discipline QC Review of Drawings

The Inter Discipline Review is a discipline leader and project manager review of the documents and is intended to be an overall design coordination review to identify potential conflicts in the plans between disciplines (i.e. – Roadway and Geometry, Structures, Geotechnical, Traffic Engineering, etc.). Preceding the Inter-Discipline review, the Discipline QC review will be completed, design activity is in a “pencils down” mode and a drawing set is produced for review. Similar to the Discipline Review process, comments are provided in black or red, concurrence or other resolution in green (checkmark), corrections in blue (circle), and verification by the reviewers in pink (circle). Issues that cannot be resolved between the Inter-Discipline QC reviewer and the original designer will be elevated to the design team leader for resolution. This review is documented in the Drawing QC checklist form previously discussed.

4.5 Quality Assurance Review of Calculations and Drawings

Once the drawings and calculations have completed the tiered, Discipline QC, Independent Peer QC (for items deemed necessary) and Inter-Discipline QC review processes, the submittal is ready for a Quality Assurance review. This review is performed by AECOM by a specifically trained senior engineer designated to be the QA Manager for the project. For the IDIQ Bridge Preservation Services Contract, Ken Butler, PE will fill the role of QA Manager. The QA reviewer will examine all documented review materials, including plans, calculations, and QC forms for compliance with the AECOM and LADOTD policies and for completeness. In addition, the QA process verifies that the QC process was effective in preventing design and plan errors and in assuring consistency. Any comments provided by the QA reviewer on the QC process or documentation must be resolved and addressed prior to the QA reviewer approving the design package (plans and calculations) may be submitted. Comments that are systemic in nature (e.g., repeated multiple times) will require a repeat of the quality training or a protocol will be added to ensure systemic issues are corrected and not repeated.

4.6 Post QA Review Revisions

If for any reason (e.g., late inputs or other issues not anticipated) revisions are necessary during or after completion of the QA review, all revisions will be documented in drawing or calculation check prints and forwarded with revised drawings or calculations to the QA reviewer for a secondary review, prior to submittal. If the changes are substantial, LADOTD Design Lead and AECOM QA Manager will evaluate and determine if the QC/QA process needs to start over.

4.7 Submittal and Filing

Once the QA reviewer has verified that the QC process was completed satisfactorily, he will complete and sign the Document Release Record, allowing the submittal to be released to the client. All calculation, drawing and QC/QA documents will be filed and archived in the project folder, organized, and filed by submittal.

5.0 DOCUMENTATION OF COMMENTS/RESPONSES

5.1 Documentation of Internal Comments and Responses

The documentation of all internal comments and resolutions will be contained within Discipline QC drawing check prints and forms, calculation review check prints and forms, and in Independent Peer Bridge QC calculation review forms and drawing check prints. Similarly, the documentation of the Inter-Discipline QC comments and resolution will be contained within the drawing check prints and forms. All QC documents will be stored electronically in the project folder and be available for audit.

5.2 Documentation of Client Comments and Responses

At formal submittal client reviews, a comment log will be used to document all comments, by page number. A plan markup may also be provided by the client. The design team will promptly review all comments received and schedule a comment resolution meeting to resolve the comments and set forth an action list to be completed prior to the next formal submittal. Revisions required by the action list will be documented in drawing and calculation Discipline QC review check prints for the next formal submittal. The QA Manager is responsible for tracking the resolution of comments.

5.3 Quality Assurance Records

Finally, the documentation of the QA review will be contained within the Document Release Record form at the completion and verification of all QC and QA review activities. All QA documents will be stored electronically in the project folder and be available for audit.

6.0 CONTROL OF SUBCONSULTANT QC PROCESS

AECOM's approach to project management and delivery is to fully incorporate subconsultants into an integrated project team, as opposed to an approach where subconsultants operate independently, with their deliverables "plugged into" the overall formal submittal. Subconsultants are integrated into the project communication process through weekly project coordination meetings. Individual subconsultant resources are expected to work as an extension of, and inclusive with, AECOM's staff resources. As such, subconsultants are expected to be fully trained in the AECOM QMS policy and to participate in the Discipline QC and Inter-Discipline QC reviews.

As described previously, all project personnel (including subconsultants) will be trained in both the LADOTD's Bridge QC/QA policy and AECOM's QMS policy. The training will be done by the Quality Assurance Manager, or designated Project Manager or Deputy Project Manager familiar with and experienced in the LADOTD's Bridge QC/QA policy or AECOM's QMS policy.

7.0 CLIENT FEEDBACK AND QUALITY AUDITS

7.1 Administrative Oversight and Continuous Improvement

A desired outcome of the AECOM QMS policy is continuous improvement. The process identifies issues where the design team (collectively and individually) can improve design processes and skills. Most importantly, feedback from the client is solicited and incorporated into our process of continuous improvement, for each formal submittal. All project performance issues are discussed internally with the design team in weekly design coordination meetings throughout the project.

7.2 Internal and External Quality Audits

AECOM performs independent internal audits of projects to ensure that the QC/QA program is being implemented correctly. As all quality records are maintained for each formal submittal in the project directory, all QC and QA documents are available for LADOTD quality auditors at their request.

8.0 QUALITY FORMS

8.1 AECOM Quality Forms

AECOM continually updates the quality process. The quality forms and documentation shown in the appendices of this document are examples and should not be used without confirmation that these documents are current and active.

Quality forms for all of AECOM's documentation can be found with the following link. This link is for internal AECOM use only.

[AECOM Project Delivery System \(PDS\)](#)

[Project Delivery System](#)

8.2 LADOTD QA/QC Policy

Similarly, LADOTD's Bridge Design QA/QC policy is defined within the Bridge Design and Evaluation Manual (BDEM), which is also a living document and subject to change. A link to the BDEM is provided below.

[LADOTD Bridge Design & Evaluation Manual](#)

APPENDIX A – PROJECT PRE-PLANNING GUIDANCE & FORMS

- *LADOTD Design Criteria Checklist*
- *LADOTD Project Activity Log Sheet*
- *LADOTD Bridge Design Section Records Retention Policy*
- *LADOTD Consultant Project Kick-Off Meeting Agenda Checklist*
- *AECOM QMS Project Plan Procedure and Example Form*
- *AECOM QMS Project File Index*
- *AECOM QMS Technical Task Protocol Procedure and Example Template*
- *AECOM QMS Software Validation Procedure and Example Form*
- *Sample QC/QA Training Module – Technical Quality Review Job Aid*

APPENDIX A—DESIGN CRITERIA CHECKLIST

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

— **Cover sheet**

The following information must be included on the cover sheet:

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

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

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

— **Design Assumptions and Design Exceptions**

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

— **General Information**

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

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

— **Hydraulic Design Criteria**

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

— **Design Factors**

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

— **Design Loads**

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

— **Limit States**

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

— **Bridge Barrier **Railing****

The design criteria, types, and test levels for bridge **barrier railings** shall be listed in this section. **Standard Plans** should be listed if they are utilized.

Guardrail

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

Approach Slab

Design criteria for approach slab shall be included in this section. **Standard Plans** should be listed if they are utilized.

Deck and Deck Drainage

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

Bearing

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

Joint

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

Superstructure

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

Substructure

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

Piles and Drilled Shafts

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

Geotechnical Design

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

Mechanical Design

All mechanical design criteria shall be included in this section if applicable. **Standard Plans** should be listed if they are utilized.

Electrical/Lighting Design

All electrical design criteria shall be included in this section if applicable. **Standard Plans** should be listed if they are utilized.

As-Designed Bridge Rating Criteria

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

Software

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

Project No.:
Project Name:
Bridge Task Manager:

[illegible]

APPENDIX F—BRIDGE DESIGN SECTION RECORDS RETENTION POLICY

Item No.	Record Title	In Office Retention Period (by Bridge Design Section)	DOTD Total Retention (by General Files)	Archiving Instruction	Responsible Party
001	Design Manuals/Guidance and Bridge Design Technical Memoranda	ACT* + 1 CY**	Life of the Agency	Archive electronically in Project-wise under <u>Documents\ Reference Materials\Bridge Design Section Archive\Design Manuals-Guidance</u>	Assistant Bridge Design Administrator responsible for design manuals
002	Bridge Design Standard Plans	ACT* + 1 CY**	Life of the Agency	Archive electronically in Project-wise under <u>Documents\ Standard Drawings</u>	Bridge Design Standards Manager
003	Final Plans, Revisions, and Change Orders (CAD files)	ACT* + 1 CY**	Life of the Agency	Archive electronically in Project-wise under <u>Project folder\Bridge-Facilities\Discipline\Plans</u> (Subfolders for each revision and change order should be created under Plans)	Bridge Task Managers
004	Final Plans, Revisions, and Change Orders (Original signed hard copies)	ACT* + 1 CY**	Final Project Acceptance Date + 5 Years	Transmit to General Files and archive electronically in DOTD Network Plan Room by General Files	Bridge Task Managers
005	Final Plans, Revisions, and Change Orders (Digital signed copies in pdf format, to be implemented)	ACT* + 1 CY**	Life of the Agency	Archive electronically in Project-wise under <u>Project folder\ Published Submittals\Project Drawings\ Final Plans</u>	Bridge Task Managers
006	Shop Drawings , Erection Drawings, RFIs, and Other Construction Submittals (Final Distribution Copy in pdf format)	ACT* + 1 CY**	Life of the Agency	Archive electronically in Project-wise under <u>Project folder\ Published Submittals\Project Drawings\Construction Submittals\Shop Drawings</u> or Erection Drawings or RFIs or Other Construction Submittals (See BDTM.49 for instructions)	Bridge Task Managers

*ACT = End of activity or final project acceptance date for project related items

**CY = Calendar Year

APPENDIX F—BRIDGE DESIGN SECTION RECORDS RETENTION POLICY (CONTINUED)

Item No.	Record Title	In Office Retention Period (by Bridge Design Section)	DOTD Total Retention (by General Files)	Archiving Instruction	Responsible Party
007	Shop Drawings (Final distribution hard copies and pdf files)	ACT* + 1 CY**	Life of the Agency	Transmit to General Files and archive electronically in DOTD Network Plan Room by General Files (See BDTM.49 for instructions)	Bridge Task Managers
008	Final Design Calculation Files for In-House and Consultant Projects (Stamped calculation book in pdf format, stamped final reports, and final electronic design models)	ACT* + 1 CY**	Life of the Agency	Archive electronically in Project-wise under Project Folder\ _Published Submittals\Project Documents\Final Design Calculations & Reports	Bridge Task Managers
009	Bridge Rating Reports	ACT* + 1 CY**	Life of the Agency	Archive electronically in Content Manager under <u>Load Rating</u> .	Bridge Rating Engineer
010	Truck Permits Calculations	ACT* + 1 CY**	Life of the Agency	Archive electronically in a designated folder on the Bridge Design server.	Bridge Rating Engineer
011	Chief Engineer Orders (Bridge Posting)	ACT* + 1 CY**	Life of the Agency	Archive electronically in Content Manager under <u>Chief Engineer Orders</u> .	Bridge Rating Engineer
012	Project Related Correspondences (Original Hard Copies)	ACT* + 1 CY**	Final Project Acceptance Date + 5 Years	Archive electronically in Content Manager under Design Projects. At the end of in office retention period, the hard copies shall be boxed, marked with project number and record item No. with description, and then transmitted to General Files for their handling.	Project Managers/Bridge Task Managers

*ACT = End of activity or final project acceptance date for project related items.

**CY = Calendar Year

APPENDIX F—BRIDGE DESIGN SECTION RECORDS RETENTION POLICY (CONTINUED)

Item No.	Record Title	In Office Retention Period (by Bridge Design Section)	DOTD Total Retention (by General Files)	Archiving Instruction	Responsible Party
013	Project Related Correspondences (Emails) <i>(Note: If the email is considered as important project correspondence and needs to be kept for the life of agency, then the email should be printed and treated as item 012.)</i>	ACT* + 1 CY**	Final Project Acceptance Date + 5 Years	Archive electronically in Project-wise under <u>Project Folder\Published Submittals\Project Documents\Project Correspondence Emails</u>	Project Managers/Bridge Task Managers
014	Administrative or Other Types of Correspondences	ACT* + 1 CY**	Life of the Agency	Archive electronically in Content Manager under <u>Bridge Design Subject Files</u>	Everyone

*ACT = End of activity or final project acceptance date for project related items

**CY = Calendar Year

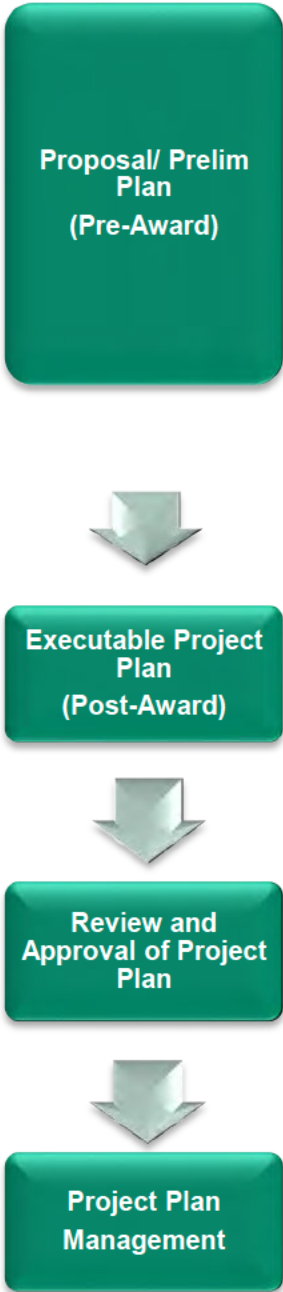
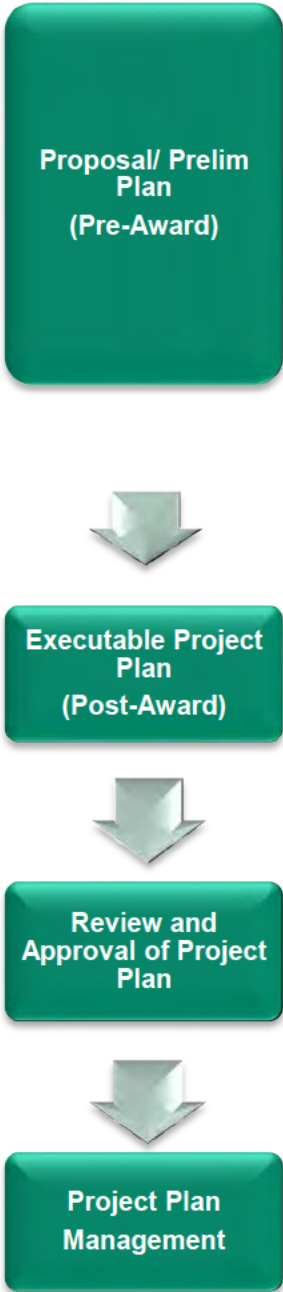
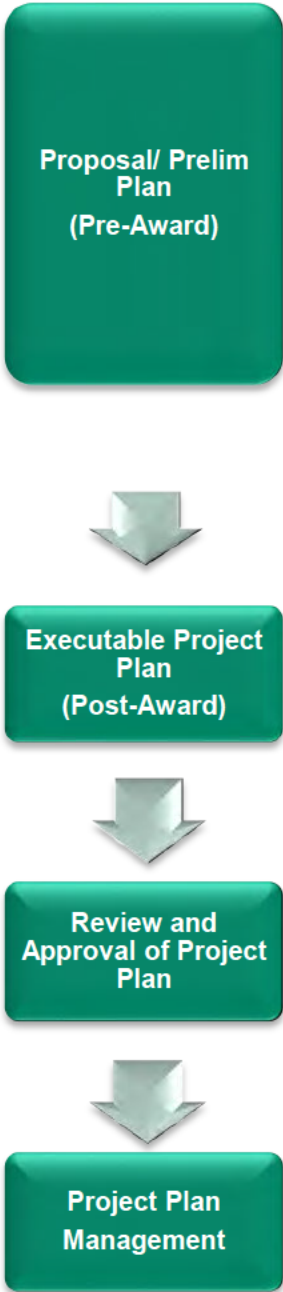
APPENDIX H—CONSULTANT PROJECT BRIDGE DESIGN KICK-OFF MEETING AGENDA CHECKLIST

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

- Introduce LADOTD Bridge Task Manager and the Consultant's Key Team Members (The Supervisor or Team Leader and Key Designers/Design Checkers/Reviewers)
- Discuss Consultant's Staffing Plan and Implementation of QC/QA Plan Document
(The staffing plan should include names and responsibilities of the designers, detailers, checkers, reviewers, and the EOR.)
- Determine Schedules for Project Submittals
(Design Criteria, TS & L, 30%, 60%, 90%, 100% of Preliminary Plans and Final Plans, Final Calculations, etc.)
- Share Expectations and Consultant Rating Criteria
(Consultant rating will be performed for all project submittals shown on the project submittal schedule.)
- Discuss Design Criteria
- Discuss Budget, Supplemental Requests, Invoices, and Importance of Avoiding Claims (Staff shown on invoices will be reviewed in accordance with the staffing plan.)

Project Plan Procedure

Q2[DCS]-221-PR1

Proposal/ Prelim Plan (Pre-Award)	WHO ¹	WHAT	WHEN
	Project Manager (PM), Bid Manager (BM), or Capture Manager (CM)	- Complete CRM opportunity record in CRM system, as applicable. - Research and capture industry activity, client's governance, policy objectives, drivers, challenges, budget constraints and community considerations that could impact the project. - Include research found in Crisis24 Horizon for any location threat risks.	Go/No Go Gate 1
	PM or BM/CM and Technical Lead (TL)	- For C-3, C-2, C-1, and C-0 projects, draft a preliminary Project Plan. - Consider Our Client Service Standard and Appendix 1 when incorporating client actions into the project plan. - Develop a preliminary technical approach to include in the proposal per the Technical Approach - Planning & Review Procedure - DCS. Include any and all recommendations made by the Technical Quality and Review Board (TQRB), as applicable. Confirm C-0/C-1 Lead Verifier(s) budget is included. - For Enterprise Critical Pursuits (ECPs) or Tier 2 Pursuits, obtain the completed Pursuit Commitment – ECPs and Tier 2 Pursuits – DCS from Client Account Manager (CAM) and include in preliminary Project Plan.	Proposal Gate 2
	PM, Profit & Loss Manager (P&LM) or Project Approver	Prepare proposal in accordance with Go/No Go Procedure – DCS and Proposal Preparation and Review – DCS.	
	PM and TLs	- Following award, complete the Project Plan (using the appropriate template/App for all C-categories). - Ensure it captures/reflects any changes made between proposal submission, award, and contract review, any exceptions to the AECOM Quality Management System (QMS), and any context or changes as discussed with the client. - Use the Project Plan as input in the Healthy Start (HS) meeting, when required, update per HS discussion. - When worksharing with other offices and/or Enterprise Capabilities (EC) (Partners) - request they draft an addendum to the Project Plan for their scope of work (SOW) or include their SOW in the Lead Office Project Plan.	Execution Gate 3
	PM	Submit the Project Plan for review and approval per regional requirements – Refer Section 2	
	P&LM or Project Approver	Review and approve the Project Plan – confirm at a minimum an appropriate risk register, document control instructions and the Project Plan is appropriately baselined in accordance with the negotiated, agreed client proposal.	Execution
	PM	- Communicate and distribute to the project team, including any partner office, prior to work commencing. - Review Project Plan regularly. Update with changes throughout lifecycle of the project, including actions from HS and Project Reviews, where appropriate. Save in the project UFI or as a tab in project MS Teams site. - Identify significant changes in the Project Plan clearly and communicate to all team members. - Use Microsoft 365 versioning controls and the 1st section of the project plan for awareness of most current version by team members. - Consider any client-required controls in the management and distribution of the Project Plan.	Execution

1. All roles mentioned throughout refer to "Lead Region/Office/Project Team" unless otherwise defined.

Related PPI

- [Project Review Procedure – AECOM Global R1-200-PR1](#)
- [Project Healthy Start/Restart Review Procedure – DCS R2\[DCS\]-200-PR1](#)
- [Go/No Go Procedure – DCS Q2\[DCS\]-121-PR1](#)
- [Proposal Preparation and Review – DCS Q2\[DCS\]-151-PR1](#)
- [Project Quality Management and Plans – DCS Q2\[DCS\]-221-PR2](#)
- [Project Document and Records Control \(Information Management\) – DCS Q2\[DCS\]-222-PR1](#)
- [Project Meeting & Communications – DCS Q2\[DCS\]-251-PR1](#)
- [Project Risk Management Procedure – DCS Q2\[DCS\]-231-PR1](#)
- [Graded Risk Approach: Project Delivery Requirements – DCS Q2\[DCS\]-231-WI1](#)
- [Project Type - Graded Approach - DCS – EC Q3\[DCS\]\(EC\)-231-WI1](#)
- [Technical Approach – Planning & Review – DCS Q2\[DCS\]-321-PR1](#)
- [Technical Quality Review – DCS Q2\[DCS\]-351-PR1](#)
- [SH&E Management System Manual – AECOM Global S2-001-SM1](#)
- [Subs Management Procedure – DCS Q2\[DCS\]-141-PR1](#)
- [Delivering our Client Promise – DCS Q2\[DCS\]-151-WI2](#)

References

- [AECOM Approval Matrix Dashboard + AECOM Approval Matrix & Process](#)
- [Collaborative Working \(ISO 44001\)](#)
- [Project Plan App](#)
- [Our Client Promise](#)

Terms & Definitions

- [AECOM Glossary](#)

[Change Log](#)

1. Purpose and Scope

- a. The document defines the minimum requirements of the Project Plan and the methodology for preparing and updating the Project Plan through the life of the project. It has been demonstrated through AECOM trends and metrics and external client benchmarking that poor project planning leads to delivery performance issues including lost margin, late delivery, inconsistent quality of deliverables, and client and AECOM team dissatisfaction.
- b. All projects shall have a Project Plan of sufficient detail to manage the risks of the project. Where appropriate, the Project Plan should link to reference documents either attached or hyperlinked. Citation of these in the relevant Project Plan section constitutes conformance to this required process.
- c. The Project Plan will at a minimum:
 - i. describe how the scope of services as specified in the contract (or as subsequently agreed to with the client) will be accomplished to meet the expectations and objectives of both the client and AECOM team and to achieve the expected business results and client outcomes.
 - ii. demonstrate understanding of the client's objectives, project priorities, challenges and success metrics to verify focus on partnering with them to achieve their desired outcomes.
 - iii. identify project and business risks with a plan to manage these through exclusions and contingency.
 - iv. describe the agreed communication plan with the client (method, timing and approach to project changes with client and project team).
 - v. is the overarching control document. Any Sub-Plans or Project Plan elements (e.g., master schedule, risk register, registers, project quality plan, project execution plan etc.) must be controlled as per the Project Plan.
 - vi. is used as a planning and management tool and means to share project information and expectations with the Project Team.
 - vii. shall address joint venture relationships and work- sharing between AECOM Partner Offices and regions, where applicable.
 - viii. must be developed using the Project Plan Template (Long or Short, or C-3A Project Plan), Project Plan App or Project Plan document required by the Client if equivalent to the Project Plan Template.
 - ix. Is sufficiently detailed and appropriate for the risk and complexity of the project.

Note:

For projects involving multiple AECOM partner offices or regions, it is the Lead Office's responsibility to develop the overall Project Plan and communicate it with its global stakeholders. Of special note is the need to clearly define how checking and verification is to be accomplished, coordinated, and documented.

2. Graded Approach

The graded risk approach applies to this procedure. The project's risk category (C-category) is determined by the AECOM Risk Assessment (ARA) completed as part of the [Workbench](#) project setup. Use the below matrix for the required rigor of this procedure based on the risk category of the project.

Regions	C-3A	C-3	C-2	C-1	C-0
DCSA EUR&I MEA ANZ	C3A Project Plan or equivalent document content approved by PM and Project Approver	Short Form – Project Plan or equivalent document content approved by PM and Project Approver.	Long Form – Project Plan or equivalent document content approved by PM and Project Approver.	Long Form – Project Plan or equivalent document content approved by PM and Project Approver.	Long Form – Project Plan or equivalent document content approved by PM and Project Approver.
Asia	Not Applicable	Project Plan– Asia or equivalent or Project Plan – Short Form – Asia (if the C3 project meets all the criteria listed on the form) document content approved by Project Approver and Local Quality Manager.	Project Plan– Asia or equivalent document content approved by Project Approver and Local Quality Manager.	Project Plan– Asia or equivalent document content approved by Project Approver and Local Quality Manager.	Project Plan– Asia or equivalent document content approved by Project Approver and Local Quality Manager.
Workshare Office and/or EC	Completion of the Project Plan – Addendum – DCS and hyperlinked in the Lead Offices' Project Plan				

Exceptions and modification to the requirement for a Project Plan are as follows:

- Master Services Agreements (MSA's) or (Indefinite Delivery/Indefinite Quality (IDIQ) programs may have a Program Project Plan and then use either the [Project Plan - C3A – DCS](#) or the [Project Plan – Addendum – DCS](#) to the Program Project Plan instead of creating a stand-alone project plan for each task.
- Projects with continuing services where Finance requires a new project number is initiated year-over-year, should review, and confirm the current Project Plan remains applicable. If it does, the existing Project Plan can be used for the new project number (prepare 1-page addendum noting the new project number or note in plan revision the old/new project numbers).
- AECOM seconded employee projects to a client do not require an AECOM Project Plan.
- The client or certain project circumstances may require exception to AECOM standard operational procedures. These variations (e.g., document and records control for confidential projects) shall be described in the Project Plan and reviewed/approved by Project Approver.

3. Implementation

- The Project Plan shall contain a level of detail commensurate with the complexity of the project and knowledge of special concerns and issues at the time using the Project Plan template options above as per the project risk category.

Action By	Action
Project Manager (PM) and/or Deputy PM (DPM)	- Develop Project Plan using the template or Project Plan App (including SOW for all offices and EC) according to the project risk category and issue to the project team at the Kick-Off Meeting. Where the DCS template has not been used, the PM MUST ensure the document used includes all items included in the DCS template. - Consider Our Client Service Standard – Appendix 1 – when identifying resources, communication protocols, quality processes and clarify client needs and expectations for the project team – refer to the Delivering our Client Promise - DCS.

Action By

Action

3. Update Project Plan throughout the lifecycle of the project for reference by the project team to the most up-to-date scope, standards, budget (including LV budget expectations), schedule and client communication requirements, including actions from Healthy Start Reviews and Project Reviews where appropriate.
 4. Clearly define the quality assurance/control requirements within the Project Plan or where required in a separate Project Quality Plan to be referenced and linked in the Project Plan.
- b. The content of the Project Plan is driven by the Project Plan template options according to the project risk category. If another Project Plan is developed, the contents of the Project Plan **must be equivalent** to the templates.
 - c. Other project-related plans may be required by the client as a part of our scope of services (e.g., Quality Assurance Plan, Design Quality Management Plan or Project Quality Management Plan) or internal AECOM policy (e.g., Health and Safety Plan, Operational Security Plan). These stand-alone plans should be developed in accordance with the Project Plan and referenced, attached, or hyperlinked to the Project Plan where appropriate generic templates for these plans are available for use in the regions on the [Project Delivery System \(PDS\)](#) or the functional area home page on the AECOM intranet. Projects implementing ISO44001 will also be required to develop project Collaborative Relationship Management Plans, and these should be referenced in the Project Plan.
 - d. When AECOM is the primary or majority joint venture partner, PM will prepare an overall project plan in conformance with this procedure and/or any client requirements (topics and approvals) and direct the joint venture partners conform to the requirements of the Project Plan, when included as part of our contract agreement.
 - e. When AECOM is a secondary or minority joint venture, PM will prepare a project plan for those portions of the work being performed by AECOM in conformance with this procedure.

4. Terms and Definitions

- | | | |
|----|--|---|
| a. | ECP | Enterprise Critical Pursuit – refer to the AECOM Pursuit Process Definitions |
| b. | Lead Region/Office/ Project Team (Lead Team) | The team who “owns” the contract with the Client and is leading the work in line with the contract. |
| c. | Partners | Offices providing internal work to another office, region, business line. |
| d. | Tier 2 Pursuits | Refer to the AECOM Pursuit Process Definitions |
| e. | Workshare | Shared work across offices, regions, business lines, Enterprise Capabilities (EC). There would be a Lead Region and Partner(s) (supplies resources and/or services to the Lead Region). |

5. Records

- a. [AECOM Risk Assessment – Workbench](#)
- b. Approved Project Plan and Referenced Documents
- c. [Pursuit Commitment – ECPs and Tier 2 Pursuits – DCS Q2\[DCS\]-151-FM3](#)
- d. [Project Plan App](#)
- e. [Project Plan – Long Form – DCS Q2\[DCS\]-221-FM1](#)
- f. [Project Plan – Short Form – DCS Q2\[DCS\]-221-FM2](#)
- g. [Project Plan – C3A – DCS Q2\[DCS\]-221-FM3](#)
- h. [Project Plan – Addendum Q2\[DCS\]-221-FM4](#)
- i. [Project Plan – Asia Q3AS-221-FM1](#)
- j. [Project Plan – Short Form – Asia Q3AS-221-FM2](#)

k. [Project Execution Plan – DCS – EC Q3\[DCS\]\(EC\)-221-FM1](#)

6. Appendices

a. Appendix 1 – Our Client Services Standard

7. Change Log

Rev #	Change Date	Description of Change	Location of Change
0	11-May-2011	Initial Release as Q2-221-PR1	
1	01-Oct-2012	2012 Review – minor editorial changes	All
2	10-Oct-2014	2014 Review – minor editorial changes and issued as I2-221-PR1	All
3	21-Mar-2016	2016 Review – updated to new IMS Template and implemented ePM elements.	All
4	07-May-2018	2017 Review – put into new IMS Template, changed to 2 column layout, updated cross-references and issued as Q2[DCS]-221-PR1.	All
5	20-Jan-2020	2020 Review – minor edits; removal of references to ePM; introduced Graded Approach; removal of Appendices 1 and 2 – Flow Diagram and Project Plan Content Descriptions.	All
6	04-Aug-2020	Minor edits; new exception of Asia using own Project Plan Template; introduced the Project Plan – Addendum option	Section 2, 4
7	11-Sep-2020	Addition of Asia requirement on the use of the Project Plan – Short Form – APAC – Asia Q3AS-221-FM2.	Section 2, 4
8	31-Mar-2022	2022 Review; put into new Template; added link to revised Project Healthy Start/Restart Procedure; minor edits to clarify need for a prelim project plan for C-3 projects and highlighting a plan is needed for all categories, including C-3A at Post-Award.	Page 1, Related PPI, Section 2, 3.1 (1), 4.
9	06-May-2024	2024 Interim Review; update to highlight the use of project plans to support Healthy Start and Project Reviews; replaced “geography/ies” with “region/s”; introducing Collaborative Working elements in Project Plans and use of the Project Plan App as alternative to the Project Plan – Short Form template for C-3 /C-3A projects.	Page 1, References, Section 1 (c) (ii), (vi), (vii), (viii) Section 2, 2 (c) Section 3 (a) (1) and (2), (c), Section 4 (d).
10	14-Oct-2024	2024 Review. - Updated AECOM's travel security provider and link. - Clarified all roles mentioned throughout refer to “Lead Region/Office/Project Team” unless otherwise defined. - Promoting “Workshare” and “Partner Offices” to enhance working practices across extended project teams. - Added reference to the new Project Quality Management and Plans – DCS Q2[DCS]-221-PR2 replacing ECs GEP 250 Project Quality Management Procedure – DCS – EC. - Added Project Type - Graded Approach - DCS - EC Q3[DCS](EC)-231-WI1 to the “Related PP” list. - Updated “Graded Approach” section to identify the AECOM Risk Assessment (ARA) is now part of project setup in Workbench. - Emphasized the need for Partner Offices (including EC) to document and submit their scope of work for direct inclusion in the Project Plan or via the Addendum option and attach. - Added Terms and Definitions section to promote new terms of “Lead Region/Office/ Project Team (Lead Team)”, “Partners” and “Workshare”.	Page 1 Related PPI Section 2 Section 4 Section 5

Rev #	Change Date	Description of Change	Location of Change
		Minor edits and updated links.	
11	07-Feb-2025	- Page 1 – “Who/What/When” table > Proposal/Prelim Plan > new bullet asking the PM/BM/CM and TL to obtain a copy of the completed Pursuits Commitment for ECPs and Tier 2s – DCS. - T&Ds – added ECP and Tier 2 Pursuits linking readers to the AECOM Pursuit Process Definitions. - Records – added reference to new form and hyperlinked.	Page 1 Section 4 Section 5
12	16-Apr-2025	Introducing: - the need for C-0/C-1 pursuits to confirm there is a Lead Verifier (LV) budget $\geq$ 1% project team budget. - touch points for pursuits to consider “Our Client Promise” when working with our clients. - new instruction called – Delivering our Client Promise – DCS	Page 1 Related PPI References Section 1 (c) (ii) Section 3 (a) (2) and (3) Appendix 1

Appendix 1 Our Client Service Standard

Our Client Service Standard

Our partnerships are built on trust, reliability and an unwavering dedication to your success. We uphold the values of exceptional client service in every project we undertake and every interaction we have together. As your trusted partner, we ask our teams to commit to the following:



Walk in your shoes

We...

- ... show we **care** by investing time to gain a deep understanding of you and your industry.
- ... ask questions and actively listen to understand all your business nuances.
- ... build lasting relationships that help us achieve your desired outcomes, every time.

Bring our best

We...

- ... take **pride** in the work we do, providing the best team and solutions to meet your challenges.
- ... deliver tailored solutions – drawing on our global and local expertise – with our best people, ideas and innovations.
- ... provide quality solutions that meet and exceed your expectations.

No surprises

We...

- ... **communicate** early and often, so we can respond to issues right away and avoid surprises.
- ... provide regular updates and actively seek feedback that helps us improve our approach.
- ... take personal responsibility in delivering what was agreed upon and raising any potential changes early on.

Legend						
C0-C3A	Level 1 = for Risk Categories C-0, C-1, C-2, C-3, C-3A - cannot be deleted					
C0-C2	Level 2 = for Risk Categories C-0, C-1, C-2					
C0-C1	Level 3 = C-0, C-1 - at the discretion of the Project's Requirements					
	= Optional where using a "Tool" to document the requirement AND for Enterprise Capabilities (EC)/Partner Office(s) folders where "Workshare" is not implemented in the Project.					
RN	= Renameable Folder, folder's name can be changed to suit project needs.					
Note	1: Refrain from using illegal characters in the folder naming convention: # % & * ' / : < > ? \ + . , : = [] { } 2: Where necessary, use an 'underscore'. 3: *The UFI is "Project" level not "Client" level. IT Helpdesk Tickets requesting project folder setups be moved from the designated source "Share/File Server" path in the Project Folder Creation Tool are not acceptable. A "Client" abbreviation can form part of the "Description" in 2 out of the 3 standard Folder Name formats used across the Company and demonstrated in the Project Folder Creation Tool : a) Number - Description (Description field = max of 25 chars e.g., Client_ProjectDesc). b) Description - Number (Description field = max of 25 chars e.g., Client_ProjectDesc). c) Project Number					
Lvl 1	Lvl 2	Lvl 3 (C0-C1, Partner Offices)	Guidance	Folder Permissions		
				Cannot Delete	Restrict Deletion BUT May Add To	RN = Renameable
Project Number / Project Number - Description / Description - Project Number				C0 - C3A	C0-C2	RN
000_PreContract [BID]				C0 - C3A		
	010_Go_NoGo [GNG]		This folder is intended as a repository for records of activities leading up to the client's notice-to-proceed on a project. Some of this information may need to be obtained from marketing/business development group.			
	020_RFP_RFO [RFP]		In lieu of copy saved here, can be held in approved system.			
	030_Pricing [PRICE]		The document, as received from the eventual client, that requests or invites the submittal of a proposal for the project.			
	040_Proposal [PROP]		Records of pricing strategies, calculations, projections, etc. used to submit a cost quotation, either prior to, or after, selection.			
	050_Presentation [PRES]		The actual signed version of the final proposal submitted, and any relevant records leading up to it.			
	060_Legal_Review [LEGAL]		When applicable, a copy of the PowerPoint or other media used in a presentation to elaborate on our qualifications for the project.			
	070_Negotiations [NEG]		Records of legal review of contract and terms and conditions. Copy of Contract review if not in CLM.			
	075_EC_Engagement_Worksheet [EC_ENGAGE]		Records of negotiations regarding scope, schedule and pricing between AECOM and client.			
	080_Superseded [SS]		Records pertaining to the EC engagement process.			
			Superseded version of documents in the Pre-Contract folder.			
100_Contract [CONT]				C0 - C3A		
	110_Client_Contract [CL_CONT]		This folder is intended to hold all legal agreements, contracts, POs, insurance certificates or other documents that bind AECOM in a business relationship with another entity.			
	120_TO_PO [PO]		General records related to contracting process and signed version of the primary contract between AECOM and the Client. Establish Level 3 folders as needed for Changes.			
	130_Approval_Matrix [APPVL_MTX]		Signed and executed task orders, purchase orders and notice to proceed as required by the client's contract. Must include corresponding scope of work, cost estimate and schedule.			
	140_Risk_Committee [RSK_COM]		Records of Approval Matrix approvals during the pre-contract and contract review process.			
	150_Subcontracts [SUBS]		Store correspondence for RA/RFA/RFPAs, especially when required to submit quarterly Risk Committee approval update forms.			
	160_Vendors_Suppliers [VENDOR]		Signed versions of contracts with technical/professional subs. Establish Level 3 folders as needed for Subs Invoices, QA/QC, Insurance Certificates.			RN
	165_Partner_MoUs [MOU]		Signed versions of contracts/POs with materials, equipment, supply providers. Establish Level 3 folders as needed.			RN
	170_Superseded [SS]		Signed versions of MOUs/ICAs with EC or other internal groups. Establish Level 3 folders as needed for Changes.			RN
			Superseded versions of documents in the Contract folder.			
200_Project_Control [PROJ_CONT]				C0 - C3A		
	210_Project_Plan_Risk [PLAN]		This folder is intended to contain records related to the overall project management and business administration of the project.			
	220_Risk_Assessment_Register [RISK_REG]		Save project plan and updates throughout project execution. PM Handover Checklist. Establish Level 3 folders as needed for Partner Office(s).			
	225_EC_Type_Assessment [EC_TYPE]		Save here for risk assessment (if AECOM Risk Assessment (ARA) not used) and risk register from Workbench.			
	230_WBS_Schedule [WBS_SCH]		Records pertaining to the EC Typing Assessment not in the tool.			
	240_Budget [BUDG]		Work breakdown structure and schedules. Include schedule bar charts, MS Project output/file, critical path analyses, other supporting documentation. Staffing worksheets, projections, assignment memos, etc. Establish Level 3 folders as needed for Partner Office(s).			
	250_Client_Invoices [INV]		Main budget is in Workbench; here include supporting budget worksheets, projections, variations/change orders and summaries for project team, etc. Establish Level 3 folders as needed for Partner Office(s).			
	260_Healthy_Start_Reviews [HS]		Invoices submitted to the client. Establish Level 3 folders, as needed, for things like Progress Reports.			
	270_Project_Reviews [PROJ_REV]		Healthy start reports, action items, follow-up documentation for evidence of closure. Establish Level 3 folders as needed for EC Healthy Start report.			
	280_Closeout [CLOSE]		Review schedules, agenda, discussion summaries, action item lists. This is for overall status reviews; EACs, monthly/quarterly project status reviews, etc. QC reviews go in 420. Note: High Risk projects document in Workbench.			
	290_Superseded [SS]		Records related to the pending or actual closure of the project. Establish Level 3 folders as needed for Partner Office(s).			
			Superseded versions of documents in the Project Control folder.			
300_Communications [COMM]				C0 - C3A		
			This folder is intended to house correspondence, records of calls, emails (depending on local IT requirements), meeting minutes and other forms of communication between AECOM and outside entities as well as internally within the AECOM team. * Meeting minutes can linked to meeting minutes in this folder. * It is anticipated Level 3 subfolders would be used appropriately according to the complexity of the project's organizational structure and as-needed to facilitate quick and easy retrieval. * As email is a primary form of communication, a separate email folder should not be necessary as the different file types (.pst, .pdf, etc.) of emails can be stored in the same folders with hard-copy scans of .doc, .ppt, .xls or other file types. Alternatively, a PM may elect to set up Level 3 subfolders within each of the four Level 2 folders as separate folders for emails, or for "incoming" and "outgoing" communications. * When documents that carry signatures are stored, these should either be electronically signed versions, or scans of wet-signed documents. Note: Must defer to local IT requirements/practice for storing email (e.g. ".msg" and ".pst").			
	310_Client [CLIENT]		Emails, meeting minutes, communications to and from client. Can add a Level 3 to differentiate between different types of communications.			
	320_Subs [SUBS]		General communication outside contract negotiations. Can add a Level 3 set of folders to differentiate between multiple Subs.			
	330_External [EXT]		Outside/Third Party/Regulatory entities other than those AECOM has a contractual relationship with (agencies, authorities, commissions, etc.)			
	340_Internal [INT]		Meeting minutes, file notes, records of conversations; Establish Level 3 folders as needed for Partner Office(s).			
	350_Feedback [FEEDBK]		Include informal and/or formal client feedback, evaluations, ratings, etc.			
	360_Superseded [SS]		Superseded versions of documents in the Communications folder.			
400_Technical [TECH]				C0 - C3A		
			Store data, input, standards, guidelines, manuals, calculations, software information and validation and other similar materials that support the development of the technical aspects of the work. * Examples of Level 2 folders: Reports, Calculations, Data, Information, etc. Includes all non-CAD, non-GIS working documents. * Replace "431_TechnicalArea_X" with appropriate naming convention i.e., discipline, Partner Office name etc.			
	405_Project_Inputs [INPUT]		Project reference library for all inputs, e.g., project specific information, e.g. historic site details, pictures, maps, reference drawings, etc. Establish Level 3 folders as needed for Partner Office(s).			
	410_Technical_Approach_Review [TAR]		Record of Technical Approach Review and follow-up; resolution of TAR comments. Establish Level 3 folders as needed for Partner Office(s).			
	420_Technical_Quality_Reviews [TQR]		Supporting evidence of quality review activity (markups, check sets, comments log, TQRs, etc.). May include optional QC Review checklists or other discipline-specific checklists. Establish Level 3 folders as needed for Partner Office(s).			
	425_Calculation_Review [CALC]		Record of Calculation Review and follow-up and resolutions; Establish Level 3 folders as needed for Partner Office(s).			
	430_Technical Working Documents					
	431_TechnicalArea_X					RN
	432_TechnicalArea_X					RN
	433_TechnicalArea_X					RN
	434_TechnicalArea_X					RN
	440_Field_and_laboratory_data [DATA]		Intended as a location for field forms, field data, boring logs, laboratory data and analyses, research data, permits, etc. Used to develop deliverables.			RN
	450_Photos [PHOTO]		Project photos, field photos and corresponding photo logs.			RN
	460_Calibration_Certs [CALCERTS]		Record of all calibration certificates and supporting documents relating to the calibration of equipment used.			RN
	470_Superseded[SS]		Superseded versions of documents in the Technical folder.			
500_Deliverables [DELIV]				C0 - C3A		
			File the record set (.pdf/locked version) of issued deliverables submitted to the client / outside entities (e.g. funding agencies, permitting agencies, etc.): * Replace "50X_Deliverable_X" with the appropriate naming convention matching the deliverable naming convention. * It is a requirement that these deliverables will be reviewed in accordance with the Technical Quality Review Procedure - DCS. Records of this review (TQRR) are stored in the respective deliverable folder (501, 502, etc.), or storage in folder 420 as determined by the PM. * Include client's interview review comments and transmittals associated to deliverables.			
	501_Deliverable_X					RN
	502_Deliverable_X					RN
	503_Deliverable_X					RN
	504_Deliverable_X					RN
	580_Other		Where superseded drawings exist as a deliverable, include in this folder for a record of the entire issued set.			RN
	590_Superseded [SS]					
600_Construction Support [CSUP]						RN
	610_Construction_Contract [CONST_CON]		This folder is intended to house records of AECOM's interaction with third-party contractors that are building the work designed by AECOM. Projects where construction management or administration is the primary service may be required to follow a different file organization structure by contract.			
	620_Communications [COMMS]		General records related to contracting process and signed version of the contract between AECOM and the Contractor. Establish Level 3 folders as needed for all "changes" including negotiations and permit approvals.			
	630_RFIs [RFI]		Establish Level 3 folders as needed to separate among various entities and/or types of communications (emails, meeting minutes, claim documents, etc.).			
	640_Submittals [SUBMITTALS]		Requests for Information submitted by contractors and our replies.			
	650_Pay_Applications [PAY_APPL]		Establish Level 3 folders as needed to store shop drawings, material submittals, method statements, pre-qualifications, plans reports and other submittals received from contractors.			
	660_Contractor Progress [CON_PROGRESS]		Pay requests from the contractor, including AECOM's review and response.			
	670_Site_Visits_Inspections [SITE_INSP]		Establish Level 3 folders as needed to store records for planning and daily, weekly, and monthly reports.			
	680_Punch_List_Closeout [PUNCH]		Establish Level 3 folders as needed to store records and notes resulting from AECOM and/or 3rd party inspections of the work performed i.e., work, material and site inspections.			
	690_Superseded [SS]		Documentation and progress records of contractor efforts to complete the work. Establish Level 3 folders for items such as Maintenance Manuals, etc.			
			Superseded versions of documents from Construction Support folder.			
700_Quality_Env_Sust [QES]				C0 - C3A		
	710_Plans [Q_E_PLAN]		The electronic tools (iQT, AECOM U) serves as the primary repository for some of these documents. When desired, or when electronic tools are not accessible to a project, this folder is used to house these records.			
	720_Audits_and_CARs [AUDIT_CAR]		Project-specific quality, environmental management and sustainability plans requested by clients above and beyond the sections in the project plan. If a deliverable, can be the work product in this folder with the final deliverable in a deliverable folder above. Establish Level 3 folders as needed for Partner Office(s).			
	730_Training [TRAIN]		Project safety, quality, EMS audit findings, nonconformities and corrective action documentation. If documentation not retained in iQT.			
	740_Reserved_for_PMs_option		Evidence of EMS, QMS, etc. training performed for the project.			RN
	750_Superseded [SS]					
			Superseded versions of documents in the QES folder.			
800_Safety [SAFETY]				C0 - C3A		
	810_Safety_Plan [SFTY_PLN]		This folder would be used on projects that involve field work or other-than-ordinary office-based physical activities that present a safety hazard.			
	820_Training [TRAIN]		Project-specific safe work plan, safety and health plan, Task Hazard Analyses (THAs), and hazard checklists as applicable. Establish Level 3 folders as needed for Partner Office(s).			
	830_Meetings [MTGS]		Include records of project-specific S&H training.			
	840_Incidents [INCID]		Include attendance/agenda of on-site tool box meetings, attendance at contractor mtgs, etc.			
	850_Safety_in_Design [SiD]		Investigation of safety incidents. Coordinate with SH&E and Legal regarding records to keep in project files.			
	860_Superseded [SS]		Include records and reports.			
			Superseded versions of documents in the QES folder.			
900_CAD_GIS				C0 - C3A		
	910_CAD		Intended as a location for CAD/BIM /GIS files, works-in-progress and collaborative working documents. Finished deliverables are stored in Section 500. If clients require alternate file structure, that requirement takes precedence over the below structure.			
			Intended as folder structure for design working documents that use CAD technologies, processes, and procedures to create, compose, and deliver project deliverable content. For example, AutoCAD (and design apps), Micro Station (and design apps), and Revit (design apps.) are examples of CAD/BIM technologies that will use this folder structure to manage and deliver project content. Other design technologies such as water modeling, traffic simulation, or structural analysis applications may choose to use these folders to integrate data more efficiently with CAD/BIM technologies.			RN
	911_Discipline_X					
	911_1_WIP					
	911_2_Shared					
	911_3_Published					
	911_4_Archived					
	912_Discipline_X					
	912_1_WIP					
	912_2_Shared					
	912_3_Published					
	912_4_Archived					
	920_GIS		Intended as folder structure for GIS data, analysis outputs, map documents and map project files that use and are derived by GIS technology. For example ArcMap, ArcGIS Pro, CityEngine, QGIS are examples of GIS technologies that will use this folder structure to manage and deliver project content. Other spatial technologies such as (but not limited to) reality modelling, data collection or data analytics tools may choose to use this folder to integrate data more efficiently with GIS technologies.			RN
	930_BIM		Intended as folder structure for design working documents that use BIM technologies, processes, and procedures to create, compose, and deliver project deliverable content. For example, BIM (and design apps) or REVIT will use this folder structure to manage and deliver project content. Other design technologies such as water modeling, traffic simulation, or structural analysis applications may choose to use these folders to integrate data more efficiently with BIM technologies.			RN
	940_999_Reserved_for_PMs_option					RN

Rev	Rev Date	Details
1	15-Jul-16	Initial Release as Q2[DCS]-222-W11
2	15-Jul-16	Minor edits.
3	23-Oct-16	1. Level 2 folder abbreviations added in []. 2. If abbreviations are not used, do not add the brackets or information inside of the bracket in the folder set up.
4		1. Instruction not to use illegal characters in folder naming convention - use 'underscore' instead.
5	07-Dec-16	1. Updates to CAD GIS folder per Global CAD/BIM teams request
6	01-Feb-17	1. Updated 130_DOA [DOA] to 130_Approval matrix [APPVL_MTX] 2. Updated CAD Discipline and CAD_GIS folder to correct sub-folder structures. 3. Removed further illegal characters i.e. dashes and forward slash. 4. Amended '400' + '500' renamable and put in their numbers.
7	02-Mar-17	1. Updated 270_Project_Reviews_APIC [PROJ_REV] to 270_Project Reviews [PROJ_REV] 2. Corrected number sequence for 700_740_Training is now 730_750_Reserved_for_PMs_options is now 740. 3. Removed references to Q-Dash and VPO
8	27-Jan-20	1. Updated to address Graded Approach and transition from ePM to APIC. 2. G18, replaced Salesforce for CRM System. 3. G52, removed statement 'May be in electronic tool (ePM, ePMP) as meeting minutes. 4. G81, removed 'Healthy Start audit review.
9	21-Oct-20	1. Moved 'Change Log' detail from main page to its own Tab called 'Change Log'. 2. I8 - Replaced 'Cannot Delete' with 'Restrict Deletion.....' 3. G12 - Replaced '.....CRM System.' with '..... approved system.' 4. G29 - Deleted '..... and Risk Register.....' 5. G38 - Reworded to highlight local IT requirements/practices are deferred to when storing email (e.g. .msg and .pst). 6. G45 - Reworded to better explain content to be stored in this location. 7. Row 48 - Added '425_Calculation_Review [CALC] 8. G57 - Reworded to better explain content to be stored in this location. 9. G62 - Replaced '..... CD Set.' with '..... Issued set.' 10. G81 - added 'hazard checklists' as an another example of content type for this area. 11. Row 85 - Renamed '850_Superseded [SS]' to '850_Safety_in_Design [SID] 12. Row 86 - Added '860_Superseded [SS]'
10	28-Apr-22	1. Applied new Branding. 2. G32 - Added 'variations/change orders' to guidance. 3. G87 - Added 'GIS' to 'Intended as a location for CAD/BIM/GIS files.....' and removed text saying 'GIS graphics'. 4. B99 - Replaced '920_929_(GIS_Graphics)' with '920_GIS'. 5. G99 - Replaced GIS guidance text with new guidance.
11	16-Feb-23	1. Row 56 - Added '460_Calibration_Certs [CALCERTS] 2. B57 - Renamed '460_Superseded [SS]' to '470_Superseded[SS]'
12	14-Oct-24	1. 2024 Review 2. Integration of Enterprise Capabilities components to retire GEP 317-01 Unified Project Folder Structure as all associated work is to be stored in the Lead Office Project's UFI. 3. Mentioning "Workshare" and "Partner Offices" to emphasize all associated work is to be stored in the Lead Office UFI and does not always need its own Level 2 folder - refer to Point 12. 4. Row 5 - Updated "Legend" to include a Color-shading for folders that can be "Optional" where using tools to store documents and folders for EC/Partner Office(s) where "Workshare" is not implemented. 5. Row 7 - Updated "Note" to include Point 3 to detract projects from putting in tickets to move their UFI from the designated and approved core local paths (i.e., DCS\Projects\ or DCS\Projects\BL) set by IT and Region Ops to group by Client. 6. Row 9 - Added "Partner Offices" to the Lvl 3 description. 7. Row 10 - Updated to correlate to the description used in the Project Creation Tool to support update to R7. 8. Row 11 - Deleting to support changes in R7 and R10. 9. Row 13 - Highlighted as "Optional". 10. Row 18 - Highlighted as "Optional". 11. Row 20 - NEW - 075_EC_Engagement_Worksheet [EC_ENGAGE] and highlighted as "Optional". 12. Row 29 - NEW - 165_Partner_MoUs [MOU] and highlighted as "Optional". 13. Updated the following rows with "Establish Level 3 folders as needed for Partner Office(s)" - G32, G35, G36, G40, G46, G51, G52, G53, G81, G87. 14. Row 33 - Highlighted as "Optional" and amended the explanation to say ARA for the risk assessment and Workbench for the risk register. 15. Row 34 - NEW - 225_EC_Type_Assessment [EC_TYPE] and highlighted as "Optional". 16. Row 38 - Updated "Guidance" to "Establish Level 3 folders as needed for EC Healthy Start Report". 17. Row 49 - Updated "Guidance" to add text to the 2nd "" to say "i.e., discipline, Partner Office name etc. 18. Row 50 - NEW - 405_Project_Inputs to act as a "reference library" for inputs related to historical information. Includes the "need for Level 3" statement for Partner Office(s).
13	21-Jan-26	1. Row 70 - changed 610 from Addenda [ADDENDA] to Construction_Contract [CONST_CON] and updated guidance. 2. Row 71 - minor edits to guidance for consistency. 3. Row 73 - changed 640 from Shop_Dwg_Submittals [SHP_DWG_REV] to Submittals [SUBMITTALS] and updated guidance. 4. Row 75 - changed 660 from Change_Orders [CHG_ORD] to Contractor Progress [CON_PROGRESS] and updated guidance. 5. Row 76 - minor edits to guidance and added "and/or 3rd party" to clarify not just AECOM inspections to be stored here. 6. Row 77 - minor edit to guidance.

Technical Task Protocol (TTP)

Q2[DCS]-321-PR2

1. Purpose and Scope

- a. This procedure supplements and is read in conjunction with the procedure, [Technical Approach – Planning and Review - DCS](#).
- b. The purpose of this procedure is to outline a process for using a Technical Task Protocol (TTP) to help guide the performance of specific technical work tasks in accordance with established requirements and full knowledge of input sources and guidance documents.

2. Procedure

- a. The intent of a Technical Task Protocol (TTP) is to provide those preparing technical documents with the input, references, criteria, direction, and background information necessary to carry out the task in a complete and efficient manner. TTPs are mainly useful for calculations, and may be used as input to specifications, drawings, and technical reports and studies. Exceptions are cases where the tasks are simple or for information only, or where the input information is readily available or developed in another manner for the project (e.g., Design Criteria Document). Depending on the scope and complexity of a task, TTPs may be developed for individual tasks or a series of tasks. In addition, standard TTPs may be developed by offices or other business units to address work that is performed for a given client on an ongoing or repetitive basis. Typically, **discipline leads** determine the value, necessity, and scope of TTPs on the projects their discipline is working on, or for their departments in general.
- b. **Discipline leads** shall assign competent individuals the task of preparing calculations. Refer to the Calculation Preparation Instructions – DCS for guidance on the preparation of calculations.
- c. Technical Task Protocol preparation – **Discipline leads**, or **designee**, prepare TTPs prior to the performance of technical tasks. TTPs generally include the information as described in the Technical Task Protocol Outline – DCS. Content is also based on the complexity of the task, size of project, project team familiarity with design requirements, new design requirements, etc.
- d. Technical Task Protocol format – TTPs are to be formatted in a manner that provides a clear understanding of the task and the conveyance of the required information.
- e. Control of Technical Task Protocols – TTPs are to be kept up to date throughout the development of technical documents and assigned revision numbers as appropriate. TTPs that have been superseded or cancelled are to be so noted. Revisions to TTPs should be given the same review and approval as the original.
- f. Review and Approval of Technical Task Protocols – TTPs shall be reviewed and approved by a **competent individual other than the preparer** to ensure the information is identified and presented correctly. The date and signatures of the preparer and reviewer appear on the cover sheet or first page of the TTP, signifying their review and approval for use.
- g. Approved Technical Task Protocols should be referenced as a design input in the related design document.

3. Terms and Definitions

- | | | |
|----|-------------------------------|--|
| a. | Technical Task Protocol (TTP) | A document that provides instructions on how to set up, plan and conduct a specific technical work activity. |
| b. | Discipline Lead | The manager or supervisory level person that is responsible overall for the project's technical work in a specific discipline. |

4. References

- a. [Technical Approach – Planning and Review – DCS Q2\[DCS\]-321-PR1](#)
- b. [Calculation Preparation Instructions – DCS Q2\[DCS\]-351-WI5](#)

5. Records

- a. [Technical Task Protocol \(TTP\) Outline – DCS Q2\[DCS\]-321-FM2](#)
- b. Approved Technical Task Protocol

6. Appendices

- a. N/A

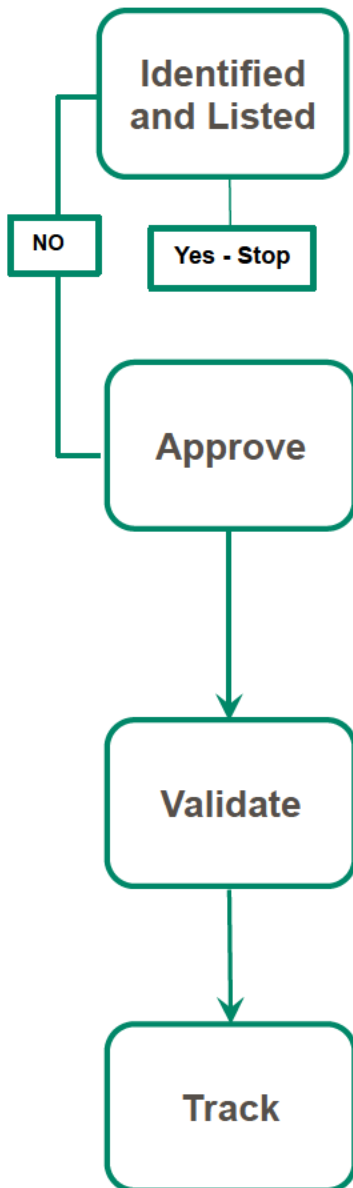
7. Change Log

Rev #	Change Date	Description of Change	Location of Change
1	26-July-2012	Initial release as Q4NA-321-PR1	
2	15-Sept-2016	Re-released as Q4NA-321-GL1	
3	15-Aug-2022	Re-released as Q3[DCS]AM-321-PR1	
4	14-Oct-2024	2024 Review; elevated from DCS Americas to DCS level procedure; re-released as Q2[DCS]-321-PR2.	

DCS

Validation of Software and Data Management Tools

Q2[DCS]-311-PR1



WHO	WHAT/HOW	PDS Phase
Technical Lead and Technical Team	- Identify technical software in Project Plan. - Confirm it is listed on the geography/region/office specific validated software listing. If yes, Stop, requirement is met. - If no, continue. Assign Validator and Approver to perform validation. Specify the method to be used for validation. - If software is developed by AECOM, implement Section 3.3 verification and validation.	Execution
Software Approver	- Review the information and, if found acceptable, approve the software for use. - Take the necessary steps to have the technical software added to the Geography/Business Line/Location validated software register.	Execution
Validator / Discipline Lead	- Perform validation using one of the following: - Run the software using input from a known solution and verify that the program output matches the known solution. All significant design options/methodologies offered by the program shall be verified. - Perform a manual calculation to verify the results obtained using the software. - Obtain manufacturer documentation of production of software under a recognized quality standard. - Provide results and documentation of the validation process to assigned Approver.	Execution
Geography Quality	- Develop and maintain a register accessible to all staff listing technical software that has been validated for use in above step. - The register shall include, at a minimum, the vendor name, software name/description, version number and AECOM's Discipline Manager/ Approver and contact person for the software.	Execution

Related PPI

- [IMS Manual - DCS Q2\[DCS\]-001-PR1](#)
- [Improvement Procedure – DCS Q2\[DCS\]-003-PR2](#)
- [Technical Quality Planning and Review - DCS Q2\[DCS\]-351-PR1](#)

References

- [Project Plan Template – DCS Q2\[DCS\]-221-FM1](#)
- [Project Plan – Short Form – DCS Q2\[DCS\]-221-FM2](#)
- [Project Plan – C3A – DCS Q2\[DCS\]-221-FM3](#)
- [Software Validation Form - DCS Q2\[DCS\]-311-FM1\(Fillable PDF\)](#)
- [Software Validation Form - DCS Q2\[DCS\]-311-FM1 \(MS Word\)](#)
- [DCSA Validated Software List](#)
- Geo/Regional Validation Software Registers
- [Technical Practice Groups \(TPGs\)](#)

Terms & Definitions

- [AECOM Glossary](#)

Help & Training

- None

[Change Log](#)

1. Purpose and Scope

This procedure describes minimum requirements to ensure software, including data management tools, used on AECOM DCS projects has been adequately selected and validated before use. Project Managers shall validate data management tools and software used to collect, store and process data used to develop project related deliverables, to ensure they meet the technical discipline and client requirements.

2. Procedure

When software is used to create inputs to work products or advice to clients, the validity of the software and its outputs, and its ability to satisfy the intended application, must be established. Software must be validated prior to initial use, and reconfirmed as necessary.

During the proposal stage, the Technical Leader should include in the Technical Approach development a list of appropriate technical software that will be used on the project, along with if the software has been/or needs to be validated. This list should be provided to the Project Manager to include as a link in the project plan and resources appropriately budgeted for where validation is needed.

If the software (and current version) is not already included on the geography/region software registers, the technical team member utilizing the software shall perform a validation that would be logged on the appropriate register for use by other technical team members.

The validation must be documented using Software Validation Form – DCS or equivalent and the documentation must be readily available (e.g., in the project central file or central register of validated software). Technical team members are required to confirm validation has occurred or are responsible for software validation for their technical software. Control of the software (including licenses, loading onto computer and addressing software errors and maintenance) is the responsibility of the IT Department.

This document focuses on the software validation, output review and testing and applies to “technical software” which is used for any of the following:

- Performing calculations;
- Developing input for use in calculations;
- Creating designs or drawings using embedded calculations;
- Generating output provided directly to clients;
- Generating output included in deliverables to clients; or
- Developing software for delivery to a client as a contractual obligation.

2.1 Technical Software Includes

- a. Advanced or complex programs developed within standard office-type platforms such as MS Excel and MS Access which are not amenable to standard checking/verification.
- b. Mathematical, formulaic, and logic-based programming developed within standard office-type platforms such as MS Excel and MS Access that cannot be validated as simple calculations.
- c. Industry Standard and non-standard software performing technical calculations to confirm/develop designs (e.g. STAAD, GT STRUDL, etc.).
- d. AECOM Data Management Tool (e.g. MS Excel macros, software developed to analyze data for a deliverable, etc.).

2.2 Technical Software Excludes

- a. Software that does not conform to the definitions provided in the list above;
- b. Used to produce output that is checked and verified manually;
- c. Inherent to equipment for measuring and testing, which is periodically verified and calibrated in accordance with the manufacturer's specifications; or
- d. Designed to enable the operation and maintenance of a computer system and its associated programs (systems software).
- e. Simple MS Excel and MS Access formulas or logic that can be validated as calculations in accordance with the Technical Quality Planning and Review Procedure - DCS.

The project technical lead and/or lead verifier are to confirm the appropriate technical software is being validated and implemented.

Geographies/Business Lines may develop supplemental procedures to include additional details or specifics. These may include the establishment of higher-level management control or coordination of the validation process.

3. Software and Data Management Tool Development Considerations

Prior to selecting or developing software, including data management tools, the PM and developers must agree on a few key elements of design as follows:

- | | | |
|------------------------|--------------|-----------------|
| • Functionality | • Capability | • Scalability |
| • Desired Output | • Speed | • Compatibility |
| • Method of validation | • Stability | |

"Non-standard" software (e.g. written in programmable third-party software such as C++, Visual Basic, MathCAD, MS Excel models, and extensions or revisions of verified software such as MS Excel macros or advanced formulas or logic based programming) or procured and employed by AECOM (STAAD, Roof View, etc.) shall be adequately documented, including authorship, revision history, description, applicability, testing and references. Such software shall be validated taking into account the applicable range of intended use, and software options and parameters consistent with the intended range of applications.

Where software not developed by AECOM is to be used to conduct AECOM business, that software must be currently licensed for use by AECOM.

- All software to be used on the AECOM network must be licensed and approved by the Information Technology (IT) group before it can be utilized.
- AECOM staff may not use software that they privately own in the conduct of AECOM business.

3.1 Purchased Technical Software Validation

Follow the flow diagram on Page 1 of this document (and itemized below) to add technical software to the validated software listing/register:

- a. Identify software to be used in the Project Plan;
- b. Determine whether validation is required;
- c. If validation is required, determine if validated, if not, assign technical team member to validate;
- d. Discipline lead review validation process and confirm accurate results are being output by the software;
- e. Transmit the validation documentation to the Software Approver (defined on Geo/Region/Location register);
- f. Software Approver request the software to be added to the register; and
- g. Perform a verification after use of the software to confirm the software provided reasonable results (could be in the Technical Quality Review process).

3.2 Client Specified Software

Follow the flow diagram on Page 1 of this document (and itemized below) to add technical software to the validated software listing/register:

- a. Identify software and confirm the software is fit for purpose and included in the Project Plan;
- b. Assign technical team member to prepare the validation form with links to the client/regulatory internet site with the clients/regulatory software verification and validation process or request documentation of verification and validation and attach to the Software Validation Form – DCS;
- c. Discipline lead review validation package and confirm accurate results are being output by the software;
- d. Transmit the validation documentation to the Software Approver; and
- e. Perform a verification after use of the software to confirm the software provided reasonable results (could be in the Technical Quality Review process).

3.3 AECOM Software/Data Management Tool Verification and Validation

Software developed by AECOM starts at the proposal stage and is included in the project schedule and budget, the table below identifies specific assignments for originators, reviewers and lead verifiers for the verification and validation process.

Proposal & Planning

- Project Manager and Technical Lead identify technical quality reviews applicability based on the project's data management and software validation needs and review software and tool development considerations.
- Categorize software as Legacy, Industry Standard, or Non-standard per Section 4.0, Terms and Definitions.
- For each non-standard software, confirm validation has occurred or assign Validator, Verifier and Approver to perform validation, and if appropriate, specify the method to be used for validation.

Check

- Originator should conduct self-check and test prior to release to reviewer.
- Reviewer should select test data and perform validation following the specified validation method and address applicable Technical Quality Review needs.
- Reviewer will conduct validation tests to ensure that results are consistent with technical practice and expected outcome, provide results, comments and documentation.
- Reviewer does the initial testing of end user interface such as forms, filters, commands, reports, etc. to ensure proper functionality and error handling.
- The originator addresses the comments, either making corrections or stating why the comment is not accepted. Disagreements are taken to the lead verifier; if the lead verifier cannot resolve the disagreement, the Department Lead/Manager makes the final decision.

Verify

- The Lead Verifier confirms that all comments have been addressed appropriately and that the software includes all required elements.
- The Lead Verifier conducts a discipline specific technical review of the deliverables or deliverable elements generated using the data and/or software.
- Verify that any comments or errors during testing of final user interface elements such as forms, filters, commands, reports, etc. have been resolved and confirm proper functionality and error handling.
- If the Lead Verifier has additional comments or disagrees with something in the software, the originator addresses the comments or states why the comment should not be incorporated. Disagreements are resolved by the Department Lead/Manager.
- The Lead Verifier completes and submits validation form to Software Validation Approver once all comments have been resolved.
- Provide results and documentation of the validation process to the assigned Approver. Changes that may affect previous output shall be noted and communicated to Approver and Department Lead/Manager.

Approve

- The Department Lead/Manager approves the software and requests the software be added to the validated software register.
- The PM approves deliverables or deliverable elements created with the software.

3.4 Validation of Software Revisions

New versions of previously validated software shall be validated again in accordance with the original process. Consideration shall be given to whether only the latest version of the software is to be maintained, keeping in mind that the use of older versions may still be required by clients or for continuity with earlier output.

3.5 Software Error and Errata Data

Errors identified by software vendors or by project team members during the use of the software must be reported to the Discipline Manager and the contact person identified on the relevant software register. The Discipline Manager shall:

- a. Notify the software developer/vendor and AECOM IT.
- b. Identify projects that have used or are using the software. Assess the impact of the error on both completed and ongoing projects.
- c. Notify the affected project managers.
- d. Notify the affected client if necessary.
- e. Develop a corrective action plan for all affected work products and deliverables.
- f. Revise the validation documentation, including the software register, as necessary.

3.6 Documentation

Validated Software records such as those listed below must be maintained in the local 'approved' Geography/ Business Line/Location validated software register:

- Completed the Software Validation Form - DCS (or equivalent) and supporting records, calculation check, comment sheets and software revision/version history maintained by the geography and business line Software Approver.
- Whenever possible developer should include the corresponding "About" Section and summarize licensing, copyright, and version information.

4. Terms and Definitions

a.	Data Management Tool	Any software, programming, template, spreadsheet or platform used to store, evaluate, format or manipulate data in any way from an Excel table to advanced software.
b.	Discipline Manager/ Approver	Leader that supervises and is responsible for the work performed in a specific discipline, market sector or practice area. Responsible for reviewing validation records from technical team members under his/her direction and providing to the Business Line Approver.
c.	Industry Standard Software	Commercially available technical software that is widely used and accepted in a discipline, market sector or practice area, and that does not require significant adaptation for use by AECOM (i.e. Primavera, ArcGIS, REVIT, etc.)
d.	Legacy Software	Technical software validated and regularly used in the current version at an AECOM legacy or newly acquired company for at least three years and for which no problems have been reported, or for which problems have been reported and corrected.
e.	Non-standard Software	Technical software that is not widely used and accepted in the industry.
f.	Software Approver	The individual, independent of the validator, who reviews the validation output and accepts the software for use by AECOM.
g.	Software Register	An up-to-date listing of validated technical software maintained by each Geography/Business Line/Location and posted in a location accessible to all staff.
h.	TL	Technical Lead; An individual competent in a technical discipline accountable to the PM for technical excellence on the project and for delivery of the technical tasks or technical packages of work within the scope, budget and schedule.
i.	Validation	The process of accepting technical software for use by AECOM. Validation may include verification of conformance with requirements.

- j. **Verification** The process, normally performed by the software vendor, demonstrating that the software will perform its intended function prior to distributing to users of the software (AECOM).
- k. **Validator** The individual who performs the validation – technical team member.

5. Appendices

- a. N/A

6. Change Log

Rev #	Change Date	Description of Change	Location of Change
0	05-11-2011	Initial Release as Q2-311-PR	All
1	04-18-2016	2015 Annual Review and released as Q2[DCS]-311-PR1	Minor edits throughout.
2	05-07-2018	2017 Review, in new IMS Template, major changes including title change from 'Software Validation Procedure – DCS'.	Read as new document.
3	20-Jan-2020	2020 Review; removal of all ePM references.	Page 1; S3.1
4	12-Oct-2021	2021 Review; put into new AECOM branded template; swapped order of "Approve" and "Track" in flow diagram; removed reference to the AECOM Software Catalog; new section for Client Specified Software; general edits.	Page 1, References, Section 2, 2.2, 3.2, 3.6,

DCS

Software Validation Form

Q2[DCS]-311-FM1

Instructions:

1. Refer to the [Validation of Software and Data Management Tools – DCS Q2\[DCS\]-311-PR1](#) for information on this process.
2. Completed and approved forms are to be maintained in the local 'approved' Geography/Business Line/Location validated software registers.

1. Software Information			
Software Name			Version
AECOM Contact Person			Date
Source	☐ Internal* ☐ External	Business Line	
Vendor/Developer			
Software Classification	☐ Legacy	☐ Industry Standard	☐ Non-Standard

* Validation of software developed by AECOM may not be performed by the software developer.

2. Software Validation		
Validation Type	☐ Initial	☐ Revision
Purpose & Description		
Validation Method		
Legacy	☐ Documented evidence of previous satisfactory use.	
Industry Standard	☐ Signed Statement / Certification of QC validation by vendor / developer. ☐ Sample data run for proper functioning on AECOM computers / system.	
Non-Standard	☐ Software run w/input having a known solution / output matches solution. ☐ Manual calculation verification.	
Other (specify method)	☐	
Validation Performed by		
Name	Signature	Date

3. Validation Approved by		
Discipline Approver:		
Name	Signature	Date
Software Approver:		
Name	Signature	Date

4. Notes/Comments

5. Documentation		
Attached (check)	☐ Previous internal use documentation.	☐ Known solution input data & output.
	☐ Vendor / Developer Statement or Certification.	☐ Manual calculation verification.
	☐ Other:	

DCS
Technical Quality Review - Job Aid

Q2[DCS]-351-WI2

Technical Quality Review Scope

Purpose:

- 1) Clarify the nature of technical quality review (TQR) by outlining the various technical review types and related scope. This complements existing procedures which provide more detailed guidance for implementation.
- 2) Provide guidance on TQR roles and responsibilities, realizing the Project Manager has the ultimate accountability to ensure the quality of the project and deliverables in accordance with scope, budget and schedule.
- 3) Refer to the Technical Quality Review (TQR) Procedure - DCS Q2[DCS]-351-PR1 for additional information: [Click here](#)
- 4) In the spirit of continuous improvement, we welcome comments and suggestions to keep this document relevant and useful. You can find the current version in the: [Project Delivery System](#)

Roles & Responsibilities

- R - Responsible (completes the task)
- A - Accountable (approves the task)
- C - Consulted (has information or capability to help complete the task)
- I - Informed (needs to be notified of task result)

	Technical Quality Review Type															Notes	Project Manager	Technical Lead	Originator	Lead Verifier	Reviewer	Interdisciplinary Reviewer	Independent Reviewer	Project Quality Manager
	Appropriate Budget, Schedule and Resources	Conformance with Standards & Regulatory Requirements	Review of Client, Sub & Third-Party Information	Compliance with Scope	Basis & Validity of Conclusion / Recommendation	Soundness of Approach / Design	Adequacy of Statements of Limitations	Technical Risk & Mitigation	Verification of Technical Solution	Validation of Assumptions	Software Verification & Validation	Check of Calculations	Check of Drawings & Graphics	Client Input Review	Organization, Clarity & Completeness									
Recommended scope when TQR Type is conducted Determine need based on project scope																Performed at or before the project reaches 15% complete or as described in the Project Plan. Document on TQRR, TAR checklist or meeting notes from TAR meeting, or equivalent.	C	C	C	R/A				I
Technical Approach Review (TAR) A review of the Technical Approach (including the technical solution) conducted to confirm that a project's creative, technical and client objectives are being addressed during the initial stages of the project to minimize risks resulting from an inadequate technical approach.																								
Calculation Check Performed to validate the accuracy and completeness of discipline specific calculations prior to deliverable hand-off to other task owners, disciplines, sub-contractors or the client.																	C	A	C		R			I
Discipline Review/Check A detailed examination performed within a single discipline to verify the correctness, completeness and technical adequacy of work, conformance with referenced standards, compliance with input requirements, acceptance criteria, relevant laws and regulations, anticipate safety standards (Safety in Design), basis and validity of assumptions, opinions, conclusions, recommendations, appropriate standard of care and potential for errors or omissions.																								
Interdisciplinary Review Conducted to align critical design elements and eliminate possible conflicts and gaps between elements developed and reviewed in different disciplines, office locations, and/or companies, including sub consultants.																	C	A	C	C		R		I
Specification Package Review A review that references to standards and codes are correct and the relevant specification sections are included. Usually coordinated with drawings and applicable conditions.																	C	A	C	C	R			I
Bidability / Contract Documents Review A comprehensive review of pre-final (90%) or final (100%) contract documents to determine if the documents are ready to bid in an effort to reduce the risk of RFIs, change orders, disputes and claims resulting from the quality of the contract documents.																	A	C		C	R			I
Constructability Review Intended to identify issues in designs and contract documents that could adversely impact the construction process, such as standards, compatibility, existing facilities/utilities, interface with existing operations, access and egress, availability of building materials and, long lead procurement and labor resources. This enables rational bidding, reduces uncertainties and minimizes potential changes during construction. An independent review of design documents to ensure work requirements are clear, documents are coordinated, and that they assist the contractor in bidding, construction and project administration to result in reduced adverse impacts to the project. To minimise delays and costs associated with the need to revise design after commencement of construction.																A	C		C	R				I
Independent Peer Review (C0 projects) A critical evaluation of work products, deliverables, material or data to verify or validate assumptions, plans, results, opinions, analysis, recommendations or conclusions at key milestones and prior to delivery to the client or other non-company entity.																								
Sub Consultant, Client, or Third-party Info Review A review of materials for completeness and verification that appropriate quality assurance and control checks have been completed by the sub consultant, client or third party.																A	R			I				I
TQR Review Types © AECOM Restricted Technical Quality Review - Job Aid (Q2[DCS]-351-WI2) Revision 5 October 14, 2024																								

DCS

Technical Quality Review - Job Aid

Q2[DCS]-351-WI2

Technical Quality Reviews - Overall

In addition to the Review Types on the Technical Quality Review Record - DCS Q2[DCS]-351-FM1 (TQRR), the below reviews take place in the overall process of the deliverable review, verification and approval process.

Type	Who	Responsibility	Record
Self-Check	The Originator	Check that the work product (deliverable) is complete and appropriate to the deliverable phase before sending to other reviewers or checkers.	No specific record required.
Reviews & Checking	Refer to the RACI* Page 1	Refer to the RACI Proofread content to review spelling, grammar and punctuation.	Signed and dated Technical Quality Review Record (TQRR) or equivalent documentation in the form of mark-ups with stamps/signatures, spreadsheets, etc.
Verification & Validation	Lead Verifier	Confirm the deliverable satisfies the technical approach/solution/methodology developed at the start of the project through a high-level review of the overall submittal. Confirm that the required quality checks and reviews have been performed. Achieve correction as needed by resolution with Originator and technical lead.	Signed and dated Technical Quality Review Record (TQRR) or equivalent documentation in the form of mark-ups with stamps/signatures, spreadsheets, etc.
Deliverable Approval and Issue	Project Manager	Final review of deliverable and authorization to issue.	Signed and dated Technical Quality Review Record (TQRR) or equivalent documentation in the form of mark-ups with stamps/signatures, spreadsheets, etc.

Rev	Change Date	Description of Change	Location of Change
0	02-February-2017	Initial Release as Q2[DCS]-351-WI2	All
1	20-July-2018	Minor editorial changes to accommodate ePM updates and referencing	A5, S5, A57-Q87
2	27-January-2020	2020 Review – minor edits; removal of references to ePM; introduced Graded Approach. Incorporate equivalent information from the Technical Quality Review Summary - DCS Q2[DCS]-351-WI1 and Technical Quality Review Types - DCS Q2[DCS]-351-WI3 and retired both these 2 Instruction documents.	All
3	09-April-2020	Revised 'TQR Review Types' tab: 1. Removed the word 'holistic' from Point (1) of 'Purpose'. 2. Reworded the 'Specification Package Review' section. 3. Reword the 'Independent Reviewer' wording. Revised 'TQR Reviews' tab: 1. Changed 'Checks' to 'Check' 2. Provided explanation for 'RACI' acronym 3. Corrected capitalization of 'technical' in the title of the TQRR. 4. Added 'if not performed by a Project Quality Manager' at the end of the sentence: <i>Confirm that the required quality checks and reviews have been performed,.....</i> 5. Added 'transmittals' and clarified 'submittals' by adding 'shop drawing' - Exception to TQQR Requirements section.	All A3 A26 R38 C4 A9 D5 C6 B13
4	28-June-2021	Updated to new AECOM colors and logo. TQR Review Types tab: 1. Added box to against TAR x Verification of Technical Solution. 2. Added '.... or equivalent' to the end of the Notes for TAR. 3. Changed 'R' to 'C' against Technical Lead for TAR. 4. Added 'C' to Lead Verifier against Discipline Review/Check, Interdisciplinary Review, Specification package Review, Bidability / Contract Documents Review. 5. Added a new sentence to the end of the 'Constructability Review' description. 6. Added '.... or other requirements.' to the 2nd last sentence of the 'Notes' for Independent Peer Review. 7. Changed 'C' to 'A' against PM for 'Sub Consultant, Client, or Third-party Info Review'. 8. Changed 'A' to 'R' against Technical Lead for 'Sub Consultant, Client, or Third-party Info Review'. 9. Changed 'R' to nothing against Originator for Sub Consultant, Client, or Third-party Info Review'. TQR Reviews tab: 1. Deleted '.... if not performed by a Project Quality Manager.' from the end of 2nd last sentence of the 'Verification and Validation' responsibility wording.	J9 R9 T9 V18, V22, V26, V30 A34 R38 S42 T42 U42 C6
5	14-October-2024	TQR Review Types tab: 1. Deleted "Suggestions/Changes + 'Click Here' link to email address" TQR Reviews tab: 1. Added statement on proofreading to allow for the removal of repetitive information on Self-Check, Checking, Verification and Inter-Disciplinary Review in the new Technical Quality Review Plan - Partner Office - DCS.	S2 C5

APPENDIX B – DISCIPLINE & INTER-DISCIPLINE QC FORMS

- *LADOTD Final Calculation Book Index Checklist*
- *AECOM QMS Technical Quality Review Procedure*
- *AECOM QMS Calculation Review Form*
- *AECOM QMS Calculation Cover Page Forms*
- *AECOM QMS Calculation Log Form*
- *AECOM QMS Calculation Discipline QC Review Checklist Form*
- *AECOM QMS Drawing Discipline and Inter-Discipline QC Review Checklist Form*
- *AECOM QMS Specification Discipline QC Review Checklist Form*
- *AECOM QMS Study/Report Discipline QC Review Checklist Form*
- *AECOM QMS Document Review Comment Sheet*

APPENDIX B—FINAL CALCULATION BOOK CHECKLIST

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

— **Cover Sheet**

The following information must be included on the cover sheet:

- LADOTD project number
- Project name
- The title of “Final Calculation Book”
- The EOR’s seal with signature and date

— **Final Calculation Book Check List**

— **QC/QA Certifications**

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

— **Design Criteria**

— **Final Hydraulic Analysis Report from Hydraulic Engineer**

— **Final Geotechnical Analysis Report from Geotechnical Engineer**

— **Superstructure Design Calculations**

— **Substructure Design Calculations**

— **Quantity Calculations**

— **Special Provisions/NS-Items**

— **Construction Cost Estimate**

— **As-Designed Rating Report**

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

Consultants shall submit the final calculation book to LADOTD bridge task managers; the submittal shall be on a CD or Flash Drive or placed to a designated ProjectWise folder including the following information:

— **A PDF File of the Calculation Book (Including the As-Designed Rating Report)**

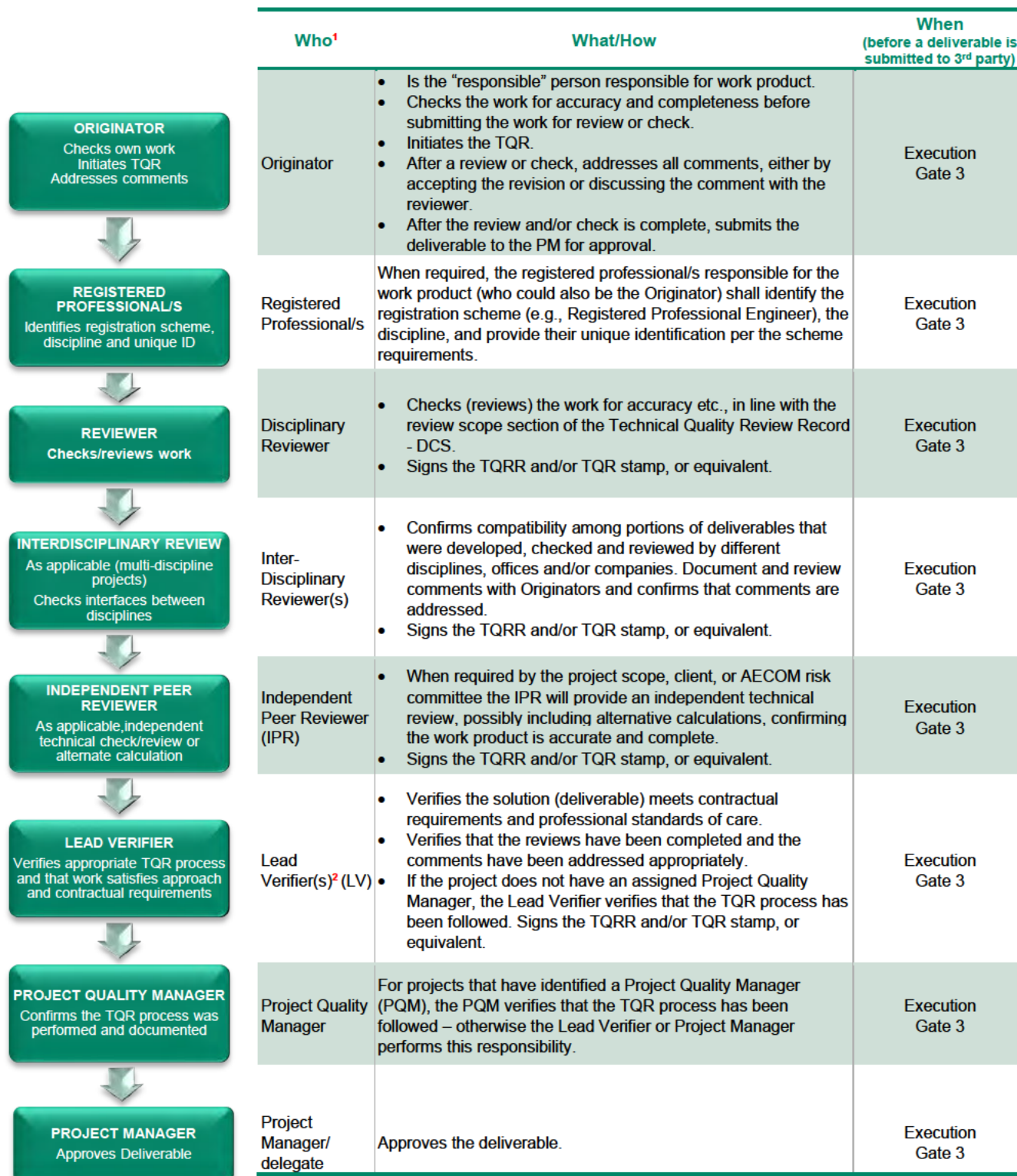
— **All Electronic Design Files**

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

The final calculation book for in-house projects shall include the same files listed above for consultant projects. The final calculation book and other final design documents for all projects including in-house and consultant projects shall be uploaded to the archiving location designated in the record retention policy within 30 calendar days after the stamped final plans are delivered.

Technical Quality Review Procedure

Q2[DCS]-351-PR1



1. All roles mentioned throughout refer to "Lead Region/Office/Project Team" unless otherwise defined.
2. Assign Senior LV for C-0/C-1 projects with multiple LVs.

Related PPI

- [IMS Manual - DCS Q2\[DCSJ\]-001-PR1](#)
- [Improvement Procedure - DCS Q2\[DCSJ\]-003-PR2](#)
- [Subs Management - DCS Q2\[DCSJ\]-141-PR1](#)
- [Project Plan Procedure - DCS Q2\[DCSJ\]-221-PR1](#)
- [Project Document and Records Control \(Information Management\) - DCS Q2\[DCSJ\]-222-PR1](#)
- [Project Risk Management - DCS Q2\[DCSJ\]-231-PR1](#)
- [Graded Risk Approach: Project Delivery Requirements - DCS Q2\[DCSJ\]-231-WI1](#)
- [Project Type - Graded Approach - DCS - EC Q3\[DCSJ\]\(EC\)-231-WI1](#)
- [Validation of Software and Data Management Tools - DCS Q2\[DCSJ\]-311-PR1](#)
- [Technical Approach – Planning & Review – DCS Q2\[DCSJ\]-321-PR1](#)
- [Technical Quality Review Job Aid - DCS Q2\[DCSJ\]-351-WI2](#)
- [Calculation Preparation Instructions – DCS Q2\[DCSJ\]-351-WI5](#)
- [Records Management & Retention Procedure – AECOM Global Q1-004-PR1](#)
- [Bluebeam Instructions](#)

Records & Checklists

- [Section 6](#)

Terms & Definitions

- [Glossary](#) + [Section 5](#)

Help & Training

- [Continual Improvement Library](#)
- [Multiple Hats How to Change Log](#)

1. Purpose and Scope

- This procedure establishes the process, roles, responsibilities and requirements for conducting a Technical Quality Review (TQR) of an AECOM Design Consulting Services (DCS) deliverable. It is mandatory for any project deliverable to a 3rd party. This includes deliverables developed in “Workshare” either by the Lead or Partner offices.
- Implementing this procedure supports a right first-time approach and promotes successful project outcomes, reducing the possibility of errors and omissions which can lead to rework and poor team morale, or even lead to legal claims affecting AECOM’s reputation and ability to win work.
- Refer to Appendix 1 for an understanding of what is expected as part of a project’s Technical Quality Review plan. Partner offices may use the [Technical Quality Review Plan – Partner Office – DCS](#), to define the details for the TQR process if not included in the Lead Office Project and/or Quality Plan documents.

2. Graded Approach

- The graded risk approach applies to this procedure. The project’s risk category (C-category) is determined by the AECOM Risk Assessment (ARA) completed as part of the [Workbench](#) project setup.
- The matrix below defines the graded requirements of this procedure according to the risk category of the project. Partners (including Enterprise Capabilities – EC) will follow the Lead Office C-Category for the TQR process. The Lead Office Technical Lead, Project Management and Lead Verifier(s) provide guidance to the Partner Office for performing and documenting the TQR on their portion of the project work.

Table 1. Technical Quality Review Graded Approach

C-3A	C-3	C-2	C-1	C-0
• LV approval that deliverable meets approach and client requirements. • Software validation - Calculation Checklist to document fit for use and functionality.	• LV approval that deliverable meets approach and client requirements. • Software validation - Calculation Checklist to document fit for use and functionality.	• LV approval that deliverable meets approach and client requirements. • Software validation - Calculation Checklist to document fit for use and functionality. • Functionality checked prior to use through alternative calculation or problem with known solution.	• LV approval that deliverable meets approach and client requirements. • IPR as appropriate to project scope. • Software validation - Calculation Checklist to document fit for use and functionality. • Functionality checked prior to use through alternative calculation or problem with known solution. • Software validation plan in project plan.	

Calculation Checklist*

C3A Category: Retain evidence of internal deliverable review using TQRR or equivalent documented content in the Lead Office project UFI. Retain client comments and dispositions (resolutions) in Lead Office project UFI. Retain evidence of calculation review and software validation using the Calculation Checklist. C-3, C-2, C-1, C-0 require a TQRR as evidence of deliverable review along with mark-ups in Americas Regions.

* = is optional in ANZ, Asia, EUR&I and MEA

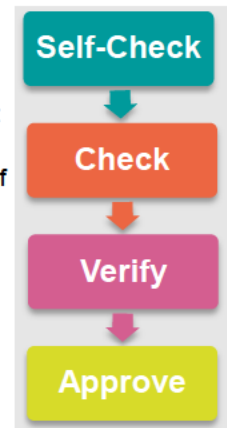
3. Procedure

The basic process for a TQR is illustrated at the right. Specific requirements are included in the Process Flow.

This process is required for all deliverables, although its application should vary based on the Project Risk Category described in Section 2, Graded Approach. Each project and deliverable are different; the review requirements are subject to the type and complexity of the deliverable, the requirements of the client or regulatory agency, and the character of the personnel actively involved with the work.

Recognizing these differences, the Project Manager, Technical Lead and project team must determine what level of effort will be necessary to routinely meet the requirements of this procedure. The process shall then be described and documented within the Technical Approach, Project Plan and Project Quality Plans and communicated to all technical team members within the Lead Office and Partner office(s).

Identification and centralization of the TQR review comments to prevent loss and rework between offices is critical. It is recommended using a digital process, such as Bluebeam, Revizto, BIM360, Autodesk Construction Cloud (ACC) etc. to document work product comments and collaborate within the digital deliverable document until resolution of all comments are clearly documented.



- a. This process applies to:
 - i. All types of deliverables, including reports, documents, plans, drawings, digital models, data tables, specifications, fact sheets, figures, logs, presentations etc. For projects involving more than one discipline with deliverables interfacing with other disciplines, an *interdisciplinary review* is required to be conducted (after the discipline review during the “Check & Review” phase) and the requirements and participants should be defined in the Project Plan/Project Quality Plan.
 - ii. Deliverables provided by Partners (including Enterprise Capabilities).
 - iii. Deliverables provided by our subcontractors, even though we may not conduct a thorough review of their work ourselves. See Section 4 for more detail on reviewing subcontractor work.
- b. All drafts, versions, and iterations of deliverables shall be reviewed prior to delivery.

Notes:

1. When deliverables must be signed and sealed, follow applicable statutory registration requirements and document on the Technical Quality Review Record – DCS or equivalent, making sure to have at least one person, other than the Originator or registered party, a part of the review process.
2. Where stand-alone calculations are prepared, the Calculation Checklist - DCS and Technical Quality Review Record – DCS should both be completed, unless the calculation is simple arithmetic included in a report where the calculation will be checked as a part of the report review and documented on a TQRR or equivalent.
3. Check with the applicable regional statement of limitations/disclaimers for applicability to deliverable documents.

4. TQR Process

- a. Each deliverable is planned and scheduled in the Project Plan and/or a list of deliverables with a TQR set up in a timely manner to notify the project team and reviewers of the upcoming required review.
- b. TQRs may be conducted at various phases of a deliverable, depending on the type of deliverable and its complexity. There may also be several types of TQRs but regardless of type, the process is the same as shown on [Page 1](#).

- c. TQR Types consist of Disciplinary, Interdisciplinary (when multiple disciplines are involved), Independent (when required by contract or when the project is a C-0 Project Risk Category). See definitions for definition details on these reviews.
- d. Information about TQR Types, Review Scope, and Roles and Responsibilities for personnel involved in the Technical Quality Review process is found in Appendix 1 for Category-C-3A and Category-C-3 projects and the [Technical Quality Review Job Aid - DCS](#) for all project risk category projects.

4.1 Documentation of TQRs

- a. Should client and or Joint Venture projects require adjustments to the TQR documentation process, this is to be specified in the Project Plan or Digital Plan/Digital Delivery Plan or Project Quality Plan hyperlinked into the Project Plan.
- b. TQR evidence must be retrievable for long term evidence that AECOM used qualified personnel to prepare, review, verify and approve its deliverable for issuance. TQRs are documented by using the Technical Quality Review Record (TQRR) form or Project Deliverable Manager (TQR App) or equivalent, which must be maintained in the project file or through stamps and markups directly on the document.
- c. Refer to the geography specific documentation requirements below:

Table 2. Technical Quality Review Documentation Requirements by Geography

Geography	C-3A	C-3	C-2	C-1	C-0
DCSA	TQRR or Equivalent Evidence	TQRR	TQRR	TQRR	TQRR
EUR&I	TQRR or Equivalent Evidence	TQRR or Equivalent Evidence	TQRR or Equivalent Evidence	TQRR or Equivalent Evidence	TQRR or Equivalent Evidence
MEA	TQRR or Equivalent Evidence	TQRR or Equivalent Evidence	TQRR or Equivalent Evidence	TQRR or Equivalent Evidence	TQRR or Equivalent Evidence
Asia	TQRR or Equivalent Evidence	TQRR or Equivalent Evidence	TQRR or Equivalent Evidence	TQRR or Equivalent Evidence	TQRR or Equivalent Evidence
ANZ	TQRR or Equivalent Evidence	TQRR or Equivalent Evidence	TQRR or Equivalent Evidence	TQRR or Equivalent Evidence	TQRR or Equivalent Evidence

Exception: A TQRR is **not required** if a deliverable is general correspondence e.g., emails, letters, monthly reports (without technical content). RFIs and Contractor Submittals such as Material Submittals, Method Statements, Shop Drawings etc. should go through the technical review process but a TQRR record is not required.

- d. When a client asks for a preliminary copy of the deliverable, prior to the internal TQR, a disclaimer – “Draft - has not gone through internal review” must be applied.
- e. Evidence of the review, such as written comments made during a TQR must be maintained in the project file, as follows:
 - i. Maintain markups, check sets, comment sheets, etc., in the project file until:
 1. At minimum, after the next submittal is accepted.
 2. Unless otherwise directed by the client or PM. Markups/check sets may be disposed after the submittal unless a TQRR was not used to document the review process.
 3. Project closeout. Discard all markups unless a TQRR was not used to document the review process, upon project closeout.
 - ii. For additional information on maintaining project records, see the [Project Document and Records Control \(Information Management\) - DCS](#).

4.1.1 Hardcopy TQR Process

The Technical Lead and Project Manager are responsible for defining and documenting with the Project Quality Manager (where a PQM applies), how and when the TQR process shall be performed in the Technical Approach, Project Plan and if required, Project Quality Plan. At a minimum, the following is documented:

- a. Schedule for deliverable reviews
- b. Resources to perform these reviews
- c. Definition of roles and responsibilities for each resource, e.g. Checker/Reviewer(s), Verifier (s) and Approver to be included.
- d. How to document the reviews along with the color-coding process – refer to Appendix 2 and Appendix 3 for version control of the check “prints” (documents) and where check “prints” are retained within the project UFI. To present as ‘One AECOM’ the arrangements or color-coding must be determined and consistently applied across the project (all disciplines and Partner offices being consistent).

Note: Understanding that schedules change – create an online document with a hyperlink within the Project Plan – this allows the schedule to be easily updated and the most current version to be available to the project team at all times.

4.1.2 Digital Tools for Technical Quality Review

- a. AECOM DCS encourages the use of digital review software tools like Bluebeam, Revizto, BIM360, ProjectWise Deliverables Management (PWDM), ProjectWise PDF markup, Autodesk Construction Cloud (ACC), etc.
- b. In such cases the Lead Office PM deliverable Technical Quality Review process shall be followed, and evidence of the process identified in Section 4.1.1 provided within the tool, as applicable. Any deviation of the process shall be explained in the Project Plan, Technical Approach or Digital Plan/Digital Delivery Plan (as applicable) and approved by the Project Manager or Project Approver (and PQM where required) through approval/release of the Project Plan or Project Plan revision.
- c. The Lead Office PM is responsible for collaborating with their Region Digital Lead to select the appropriate digital tool for the Technical Quality Review process. The tool and process will be identified in the Project Plan and could be detailed in a Technical Approach or Digital Plan/Digital Delivery Plan hyperlinked into the Project Plan. The Lead Office and all Partner offices will follow the process defined.

4.2 Client or Stakeholder Review Comments

- a. All comments received from a client or regulatory agency must be reviewed and included as agreed with the client or regulatory agency by the authorized project team member.
- b. Documentation of the reviews and agreement shall be maintained in the Lead Office project UFI.
- c. When deliverables are revised based on the Client or Stakeholder comments, the [Comment Response Sheet \(CRS\) – DCS](#) or equivalent, shall be included as part of the revised deliverables to assist efficient review/approval process. Where practical the CRS should identify the comment, how and where (drawing/document number and title) it was addressed. Where comments are not addressed, justification for not addressing the comments should be provided under the “Response” column. Discipline Review should be performed on the CRS as part of the deliverable internal review process to ensure all the comments are adequately addressed in the revised documents.
- d. The external drafts containing the client or regulatory agency comments must be retained in the project file in alignment with the [Records Management & Retention Procedure – AECOM Global](#), the client contract or regulatory requirements.
- e. Changes to the work product or deliverable resulting from these reviews are subject to the same verification, review, and documentation requirements as the original work product, except when the changes are editorial or minor in content and do not change the risk content of the document. For these changes, a review process shall be performed but evidence of review is directly on the work product, in an email or another documented form.

4.3 Project Input from External Stakeholders

- a. The PM or Technical Lead is responsible to take steps to confirm the Sub's deliverable or other project input (client or others) is suitable to be included in the project deliverable. The confirmation can be performed by:
 - i. Requesting evidence input was checked and reviewed by the provider, equivalent to this procedure; or
 - ii. Confirm the inputs meet the requirements of the project by including in the internal review process.
- b. Where the Sub is using measuring, monitoring, inspection and testing equipment that may impact the deliverable, check the deliverable e.g., report to ascertain whether the equipment used is identified in the deliverable to confirm traceability. Documentation to confirm validity e.g., calibration certificate, should also be submitted as part of the deliverable.

5. Terms and Definitions

The following definitions supplement those found in the [AECOM Glossary](#).

- a. **Deliverable** Work product that is intended for delivery to a 3rd party to meet final, interim, or milestone submittal obligations as defined in the contract or regulatory requirements. Deliverables subject to the TQR process are understood to mean those work products that fulfil the contract obligations (should be listed in the Project Plan). Deliverables can include reports, plans, drawings, data tables, specifications, calculations, models, conclusions and recommendations, fact sheets, white papers, letter reports, responses to comments, or any other project related document. Deliverables are not general correspondence (including emails, letters, monthly status reports (without technical content), etc.)
- b. **Deliverable Component** A specific piece or part of a deliverable, such as calculations, drawings, specifications, studies and reports. One or more components may be packaged to comprise the overall deliverable.
Calculations, even when not submitted to the client, are considered a deliverable component and shall follow the TQR process to the same rigor as the deliverable components.
Calculations developed from MSExcel, MathCAD and similar tools shall have internal logic statements, embedded equations and macros checked.
The Lead Verifier(s) is (are) responsible for confirming the tool is acceptable for the proposed application and meets these requirements.
- c. **Lead Region/Office/Project Team (Lead Team)** The team who "owns" the contract with the Client and is leading the work in line with the contract.
- d. **Lead Verifier** Reviews the technical approach and each deliverable for overall compliance with SOW, approach, requirements and regulations. Not involved in developing the work. Must be on the AECOM Approved Lead Verifiers list ([Lead Verifier Information](#)). A project may have more than one Lead Verifier to help address all discipline elements.
- e. **Originator** The individual or team of people who create a deliverable or work product. In the case of a team, the Originator includes the responsible person directing the work and having final decision authority over the work product. For example, a CAD designer may prepare a design under the supervision and direction of a lead engineer. Both the CAD designer and the lead engineer would be considered Originators of the work.
- f. **Partner** Offices providing internal work to another office, region, business line.
- g. **Registered Professional** In "Jurisdictions" where this is required, the responsible professional who either created the work product as the originator or who directly supervised the creation of the work product.
- h. **Technical Lead** An individual competent in a technical discipline accountable to the PM for technical excellence on the project and for delivery of the technical tasks or technical packages of work within the scope, budget and schedule.

- i. **Third (3Rd) Party** Job applicants, contractors, sub-contractors, joint ventures, partnerships, client and vendor staff, and members of the general public.
- j. **Work Product** Reports, drawings, specifications, data sheets, virtual deliverables, calculations or other output that may serve as input to subsequent project stages or be delivered to the client, regulatory agency or other stakeholder. Work product goes through stages of development internally and becomes a deliverable when handed over to the client.
- k. **Workshare** Shared work across offices, regions, business lines, Enterprise Capabilities (EC). There would be a Lead Region and Partner(s) (supplies resources and/or services to the Lead Region)

6. Records

- a. Technical Quality Review Record – DCS Q2[DCS]-351-FM1 ([Word](#) / [Fillable PDF](#))
- b. Calculation Checklist - DCS Q2[DCS]-351-FM3 ([Word](#) / [Fillable PDF](#))
- c. [Technical Quality Review Plan – Partner Office – DCS Q2\[DCS\]-351-FM6](#)
- d. [Comment Response Sheet \(CRS\) – DCS Q2\[DCS\]-351-FM7](#)

7. Appendices

- a. Appendix 1 – Matrix of Acceptability – C-3A/C-3 Project Roles and Responsibilities.
- b. Appendix 2 – Check Prints
- c. Appendix 3 – Examples – Color Coding and Quality Control stamps for Hardcopy/Printed Copies
- d. Appendix 4 - Examples – Quality Control Color Codes for Bluebeam Technical Review Process

8. Change Log

Rev #	Change Date	Description of Change	Location of Change
1	01-Oct-2012	Initial Release as Annual Review.	Sections 1, 2, and 4
2	01-Oct-2014	2014 Review – Updated with SHE comments and DEKRA Americas Observations in reference to monitoring and measurement.	Sections 3 and 4
3	18-Apr-2016	Released as Technical Quality Planning and Review Procedure Q2[DCS]-351-PR1.	All
4	----	-----	----
5	22-Jun-2016	Updated to better define actions for non-complex/low risk projects and team members performing multiple roles.	
6	21-Dec-2016	Minor updates to adjust role responsibilities and updates in ePM.	Sections 4, 5 and 6
7	20-Jul-2018	2017 Review; put into new IMS Procedure template and restructured to 2 column format; update references and removal of appendices prepared as independent documents.	All
8	01-Aug-2018	Added instruction around signing/sealing; amended the 'Originator' definition; and updated the responsibility matrix + redefined the 'key quality principles'.	Sections 2, 5 and Appendix 1
9	25-Jan-2019	Qualified that the TQRR form is not required to be used for review of minor-editorial changes to the work product.	Section 4.2

Rev #	Change Date	Description of Change	Location of Change
10	08-Aug-2019	Remove link to IMS Policy with its retirement; Updated retired linked location for Lead Verifiers to new location on Ecosystem; Amend 'Interdisciplinary Review' and Project Quality Manager actions in Flow Diagram on Page 1; Bold and underline Section 2, Point 4; Amend Section 4.2 Para 1 around client comments; Amended PQM line in Appendix 1 around who is responsible if a separate PQM is assigned.	Related PPI Section 2 Point 4 Section 4.2 Para 1 Section 5 (c) Appendix 1 – PQM
11	29-Jan-2020	2020 Review – minor edits; removal of references to ePM; introduced Graded Approach.	All
12	15-Jul-2020	Minor edits; added Project Manager as alternative Lead Verifier if project does not have an assigned Project Quality Manager; exemption clarifications on the use of the Technical Quality Review Record – DCS and amendment to 'Deliverable' definition.	Page 1, Sections 2, 3, 4.1, 5 and App 1 - PQM
13	14-Dec-2021	2021 Review; put into new Template; revised Page 1's "What/ How"; general edits; added optional use of Calculation Review Checklist for regions until review of Graded Approach; updated T&Ds; updated Appendix 1 to clarify roles and exceptions to overlapping.	ALL
14	15-Aug-2022	2022 Review; introducing the recognition of "Registered Professional/s" in jurisdictions where this is required; clarifying the need for "Interdisciplinary Review" for projects with more than one discipline jointly collaborating on deliverables; added definition for "Registered Professional"; minor edits.	Page 1, Section 3(a), 4.1, 5 and App 1.
15	18-Oct-2023	Minor edits; updated Graded Approach table to align with "Graded Risk Approach: Project Delivery Requirements – DCS; updated the Matrix of Acceptability for C-3A/C-3 projects to identify PQMs as Reviewer/Checker with a "Proceed with caution" icon.	Section 2 Appendix 1
16	14-Oct-2024	2024 Review. - Clarified all roles mentioned throughout refer to "Lead Region/Office/Project Team" unless otherwise defined. - Promoting "Workshare" and "Partner Offices" to enhance working practices across extended project teams. - Promoting "Digital" as an integral part of project planning and execution. - Updated "What/How" adding "Signs the TQRR and/or TQR stamp, or equivalent" for reviews. - Added reference to needing a Senior LV for C-0/C-1s with multiple LVs. - Added Graded Risk Approach: Project Delivery Requirements – DCS Q2[DCS]-231-WI1 and Project Type - Graded Approach - DCS - EC Q3[DCS](EC)-231-WI1 to the "Related PP" list. - Added links to the "Continual Improvement Library" and "Multiple Hats How to" to Help & Training. - Introducing information from EC to retire GEP 251 Checking and Verification – DCS – EC. - Elevated EC's Bluebeam set of instruction documents to DCS level. - Elevated MEA's Comment Response Sheet – MEA to DCS level. - Elevated EC's GEP 250-1 Quality Plan (C&V) – DCS – EC to DCS level – now Technical Quality Review Plan - Partner Office – DCS. - Updated "Graded Approach" section to identify the AECOM Risk Assessment (ARA) is now part of project setup in Workbench. - Updated Graded Approach area to emphasize EC follows the Project Risk Category of the Lead Office project for the TQR process and minor edit to C-0 streamline wording against Software Validation.	Page 1 Related PPIs Help & Training Section 1 Section 2 Section 3 Section 4 – all Section 5 Section 6 Section 7 Appendix 1, 2, 3, 4

Rev #	Change Date	Description of Change	Location of Change
		• Update main process wording emphasizing documenting, communicating and centralizing comments to prevent loss and rework across Partner Offices, including the use of the appropriate tools to do it in. • Modified Table 2 splitting out EURIMEA to make EUR&I and MEA rows. • New sections covering documenting of hardcopy TQR process; check prints; digital tools for TQR. • Added “Lead Region/Office/Project Team (Lead Team)”, “Partner” and “Workshare” definitions and updated LV with a project may have more than one LV to address all disciplines. • Updated Appendix 1 with a new training video link “Multiple Hats How to” and amended the role of the PQM to against “Reviewer/Checker” to proceed with caution. • New appendices – 2, 3 and 4. • Minor edits and updated links.	

Appendix 1 Matrix of Acceptability –C-3A/C-3 Project Roles and Responsibilities

The expectation inherent in the TQR process is the PM will coordinate with the Technical Leads to think through the project requirements and risks to verify:

- Technical Quality Review arrangements are appropriate and fit for purpose; and
- The completed deliverable is thorough, correct, accurate, professionally appropriate and meets contractual obligations.

In some instances, it may be necessary for one person to fulfil multiple roles on a project. Duplication of roles should be the *exception* (only C-3A and C-3 projects), not the rule. This matrix illustrates which roles may or may not overlap.

Note: For C-0, C-1, and C-2 **no roles should overlap**, and this matrix cannot be used. Only in exceptional circumstances, the Project Manager and Lead Verifier may agree to overlapping roles and shall be explained in the Project Plan and/or Technical Approach – refer to the ["Multiple Hats How to"](#) outlining the different roles and responsibilities.

	Project Manager	Lead Verifier	Technical Lead	Originator	Reviewer/Checker	PQM
Project Manager		△	△	△	✓	△
Lead Verifier	△		✗	✗	✓	✓
Technical Lead	△	✗		✓	△	△
Originator	△	✗	✓		✗	✗
Reviewer/Checker	✓	✓	△	✗		△
PQM	△	✓	△	✗	△	
Legend	✓ = acceptable △ = Proceed with caution ✗ = not allowed					

The **key quality principle** behind this distribution of roles is:

1. The Originator **cannot be the** Reviewer (checker) of their own work but is expected to self-check their work before submitting it for TQR.
2. Where the PM and Technical Lead are the same person, **they cannot be the Lead Verifier**.
3. Where the PM and Technical Lead are not the same person, the PM could act as the Lead Verifier **only if they are an approved Lead Verifier**.

Note:

PM	May be the Technical Lead and/or Originator; however, use caution to avoid compromising technical quality delivery due to schedule or budget constraints.
Technical Lead	Focuses solely on project technical quality, its planning and resources.
Originator	Performs the work and self-checks; could also be the PM and Technical Lead but cannot serve in a review/check or verify role. See the Key Quality Principle above.
Reviewer/Checker	Reviews (checks) work prepared by others. See the Key Quality Principle above. May also verify the work.
Lead Verifier	Reviews the technical approach and each deliverable for overall compliance with approach, requirements and regulations. Lead Verifier – not involved in developing the work – brings an independent viewpoint to the review process, an industry best practice. Also see PQM role below.
PQM	Confirms completeness of the TQR process per procedure. If separate PQM has not been assigned, LV or PM takes on this responsibility and their signature signifies that they are performing these responsibilities. On C-3A projects, the PM must take on the responsibility and their signature on the mark-up, email, TQRR or other equivalent document signifies they are performing these responsibilities.

Appendix 2 Check Prints

Digital Check Prints and mark-up process is defined by the tool to be used. Request your regional Digital Lead to provide guidance on which tool will be appropriate for your project. If using Bluebeam, refer to the Work Instructions listed below and linked in the Project Delivery System (PDS) for guidance.

For each cycle of Self-Check, Review, and Update (refer to Appendix 3 and Appendix 4 for check print stamps or digital tool steps options), the Project Plan shall identify one color-code mark-up process for all disciplines and Partners on the project. If there is not already a requirement from the Client for a specific process identified by the office/region, the color-code scheme in the Appendix shall be used.

- a. Check Prints:
 - i. Produce the check print with the applicable stamps identified in the Project Plan.
 - ii. If errors are found during the first check, create a second check print with updates and provide both the version with errors and the clean second set to the Reviewer/Checker to back check that their comments were properly incorporated. If they are not incorporated a discussion is held that determines no change needed – document agreement of no change on the second check print.
 - iii. Reviewer/Checker mark each update one at a time to confirm all comments were incorporated. If the comments were not incorporated – document why they were not, and agreement with not incorporating them.
 - iv. During back-check review, the reviewer/checker can add new comments.
 - v. Repeat until the deliverable is technically accurate.
 - vi. The final check print will only have check marks placed by the Checker/Reviewer.
- b. Technical Quality Hardcopy Mark-up Record:
 - i. All check prints for a deliverable's revision form the quality record.
 - ii. For hard copy check prints, staple them together.
- c. Projects Across Offices/Regions:
 - i. Lead Teams may perform additional checks and should append their mark-ups to the Partner office set using the same mark-up process as above.
 - ii. It is recommended for retention to scan the TQR set and retain in the project UFI defined by the Lead Office PM in the project plan.
- d. TQRRs (if required by region):

The Lead Office PM will discuss this during the Kick-Off Meeting and document in the project plan whether the TQR Record (TQRR) with the mark-ups or just the mark-ups with stamps equivalent to the TQRR is the process for the final TQR Record (TQRR).
- e. Bluebeam Workflow and Review Instructions
 - i. [Bluebeam Studio Account Setup – DCS Q2\[DCS\]-351-WI6](#)
 - ii. [Bluebeam Studio Workflow – DCS Q2\[DCS\]-351-WI7](#)
 - iii. [Bluebeam Workflow Process – DCS Q2\[DCS\]-351-WI8](#)
 - iv. [Bluebeam Review Instruction - Originator \(Small Projects\) – DCS Q2\[DCS\]-351-WI9](#)
 - v. [Bluebeam Review Instruction - Originator/Lead Project Office - DCS Q2\[DCS\]-351-WI10](#)
 - vi. [Bluebeam Review Instruction - Studio Administrator – DCS Q2\[DCS\]-351-WI11](#)
 - vii. [Bluebeam Review Instruction - Technical Reviewer – DCS Q2\[DCS\]-351-WI12](#)

Appendix 3 Examples – Color Coding and Quality Control Stamps for Hardcopy/Printed Copies

a. Sample Color-Coding - Color and Markups on Printed Copies

- i. If a client, project or office color-coding process is not already identified, the project shall identify a standard for the project. Below is a recommended set of colors that can be used when marking up check/verification prints, when a required alternative is not defined. As a minimum, the final color to indicate that the changes are correct must be green.
- ii. Where the client or project requires alternative colors, those shall be documented in the Project Plan or Project Quality Plan.
- iii. The Partner Office shall be directed by the Lead Office on the color-coding process for the project and all disciplines will implement the same color-coding process to eliminate any misunderstanding during Inter-disciplinary Review or when the final product from all Partner offices is pulled together.
- iv. Collaboration is greater when the entire project team is using the same color-coding process and the same digital tool when hard copies are not used.

HIGHLIGHTER	Item has been reviewed and found to be correct
PEN	RED shall be used by the Reviewer for any errors, changes or additions that are required.
PEN	Black Pen/Pencil shall be used by the Reviewer(s) for any comments, queries or any other items that need to be brought to the attention to the Originator but not incorporated in the Master document.
PEN	GREEN PEN for Originator, check marks if an agreement with the comments of the Reviewer, discusses to come to agreement with any comments the Originator does not agree with.
PEN	BLUE PEN shall be used by the Originator circling the RED mark-ups, after the relevant changes have been made on the Master document.
HIGHLIGHTER	The Reviewer may use GREEN to document the review, indicating that any errors, changes or additions have been incorporated with a green tick/check mark over the blue pen circle.

Note: For the Lead Verifier or Independent Reviewer comment process, the above process is to be performed on a separate version of the deliverable documents.

b. Sample Stamp for Single Discipline Checking

The explanatory notes provided herein are not intended to be included on stamps. These stamps may be applied physically to a hard copy print using ink and traditional hard stamps, or they may be applied electronically in a digitally enabled work process.

Discipline Review			
Seq. No.:	IDR required ☐		
	Name	Signature	Date
Self-Check (Originator)			
CAD/BIM Check			
Review/Tech. Check (Reviewer)			

Note: The sequence number block is optional for cases where it is desired to track the individual cycling of check prints; place an incremental number for each check print used in the checking process. DO NOT use revision or version number here, since those terms are used for document control of individual deliverables.

c. Sample Stamp for Inter-Disciplinary Review (IDR)

Inter-Discipline Review			
Owning Discipline:			
Disciplines	Name	Signature	Date
Originator:			
Discipline Reviewer(s)			

d. Sample Stamp for Verification (LV performed by Partner)

***** Verified *****			
	Name	Signature	Date
Worksharing Office Lead Verifier			
Lead Team Verifier			

Note: When the IDR is fully or partially performed by the Partner, the Partner verification step is performed after the IDR (where applicable) is completed. This sample stamp can be applied to leave space for the Lead Team to record their verification after the Partner completes verification since the two steps are sequential.

e. Sample Stamp for Verification (LV performed by Lead Team)

***** Verified *****			
	Name	Signature	Date
Lead Team Verifier			

Note: When the IDR is fully performed by the Lead Team, the Partner verification step is performed prior to the deliverable(s) being released to the Lead Team to perform the IDR. After the Lead Team performs the IDR, they would then apply their own Verification Stamp.

Appendix 4 Examples – Quality Control Color Codes for Bluebeam Technical Quality Review Process

This Appendix will provide example for color-coding and stamps that can be used to document the TQR process in the absence of guidance from the client or region/office/business line for **Bluebeam digital checking and verification**.

Note: Other Digital Tools are available, but guidance is currently not complete. Contact your Region/Business Line lead when using other digital tools for guidance.

When the client or Lead office does not have required mark-up colors, the below is a standard AECOM profile in Bluebeam that should be used when marking up check/verification prints. As a minimum, the final color to indicate the changes are correct must be "Green".

When using other digital tools for Technical Quality Review, like Revizto, a common color-coding mark-up process shall be set-up using similar guidance within the Project Plan or, where applicable, Digital Plan/Digital Delivery Plan.

Table 3. AECOM TQR – Internal and External (Client)

TQR Comment	TQR Comment Color
Original "Revision" Comment Added by Reviewer	Red Comment
Status Change (from DB or TQR Reviewer)	Comment Color (Change)
**RESPONSE to Reviewer / Lead Verifier Comment	
AGREE / ACCEPT	Dark Orange Comment
DISCUSS (see Reply) - Requires Reviewer Response	Red Comment
ANSWER PROVIDED to Question Asked (see Reply)	Dark Orange Comment
**ACTION to be Taken by Originator	
Markup HAS BEEN INCORPORATED	Dark Blue Comment
Markup WILL BE INCORPORATED into Next Submittal (see Reply)	Dark Orange Comment
Will NOT be INCORPORATED (see Reply)	Magenta Comment
Markup will be DEFERRED to a Later Submittal (see Reply)	Red Comment
ESCALATE Issue to PM (see Reply)	Red Comment
CLIENT RESPONSE Needed: Out of Scope (see Reply)	Red Comment
CLIENT RESPONSE Needed: Needs Client's Input (see Reply)	Red Comment
**Comment RESOLUTION by Reviewer / Lead Verifier	
CLOSED by REVIEWER - Comment Addressed	Green Comment
OPEN - Comment NOT Addressed or Resolved. Returned to Originator	Red Comment
CLOSED by PM / Designee - Comment Addressed	Green Comment
COMMENT FORWARDED to Next Phase	(No Color Change)
VERIFIED: CLOSED - Set by Verifier	Green Comment
VERIFIED: OPEN - Set by Verifier	Red Comment
Checked / Correct (Yellow Highlighter)	(same as closed)
Client Comment	Client Comment Color
Original "Revision" Comment Added by Reviewer	Red Comment

Status Change (from TQR)	Comment Color (Change)
**Response to CLIENT Comment by Consultants	
Accepted	Dark Yellow Comment
Clarification Needed	Red Comment
Deferred	Purple Comment
Rejected	Red Comment
Out of Scope	Red Comment
Needs Client Response	Red Comment
Minor Editorial	(Types of comments)
Major Technical Change	

DCS

Calculation Review Checklist

Q2[DCS]-351-FM3

Instructions:

1. Review of calculations can be guided by the questions listed below but not limited to. Add additional requirements where necessary.
2. Independent Peer Review, where required, concurrences as recorded on the Technical Quality Review Record Q2[DCS]-351-FM1.
3. File completed form on the front of the calculation.

Details			
Project Name		Date	
Project No.		Discipline	
Client		Subject	
Calculation No.		Rev No.	
Software Name (if used)		Software Version (if used)	
Originator			
Electronic File Name (if applicable)			
File Location of Versions Checked			

Review	Yes	No	N/A
1. Is the calculation in accordance with a standard approach to preparing the design?	☐	☐	☐
2. Have input data and information been verified and accepted?	☐	☐	☐
3. Do the calculations adopt the latest/necessary data? Tick "No" if calculations need to be updated when additional data becomes available and/or when assumptions have been confirmed?	☐	☐	☐
4. Have assumptions requiring follow-up been reviewed and confirmed?	☐	☐	☐
5. Have calculations prepared using technical software or excel spreadsheets (with macros or equations) been confirmed through a secondary method (i.e., manual, alternate software)?	☐	☐	☐
6. Are results and conclusions consistent and reasonable considering the inputs and approach?	☐	☐	☐
7. Have the Originator and the Checker/Reviewer signed and dated the calculation?	☐	☐	☐
8. Are the calculations associated with a "professional service" requiring the Originator (or individual who provided direct supervision for these deliverables) to be a "Registered Professional"? (For Regions where it is required). If "Yes" complete "Professional Registration" section in Approvals.	☐	☐	☐
9. Have all previous internal review comments been addressed and closed out with the originator?	☐	☐	☐
10. Have all previous client review comments been addressed and closed out?	☐	☐	☐
11. Are there any other considerations which require listing as additional scope to this review? – List if 'Yes'	☐	☐	☐
12. Is software used validated in accordance with AECOM procedure?	☐	☐	☐
13. Has an independent review and check of calculation been completed (if required)?	☐	☐	☐
14. Calculation/model version is archived in the relevant project folder structure?	☐	☐	☐

For any 'No' responses, please explain:

Approvals

Reviewer Name	Signature	Date

☐ **Professional Registration (where required)**

By completing the below, I confirm I am the Originator or have provided direct supervision for this deliverable.

Registration Scheme	Discipline / Area of Practice	Name of Registered Professional	Signature	Registration No.	Date

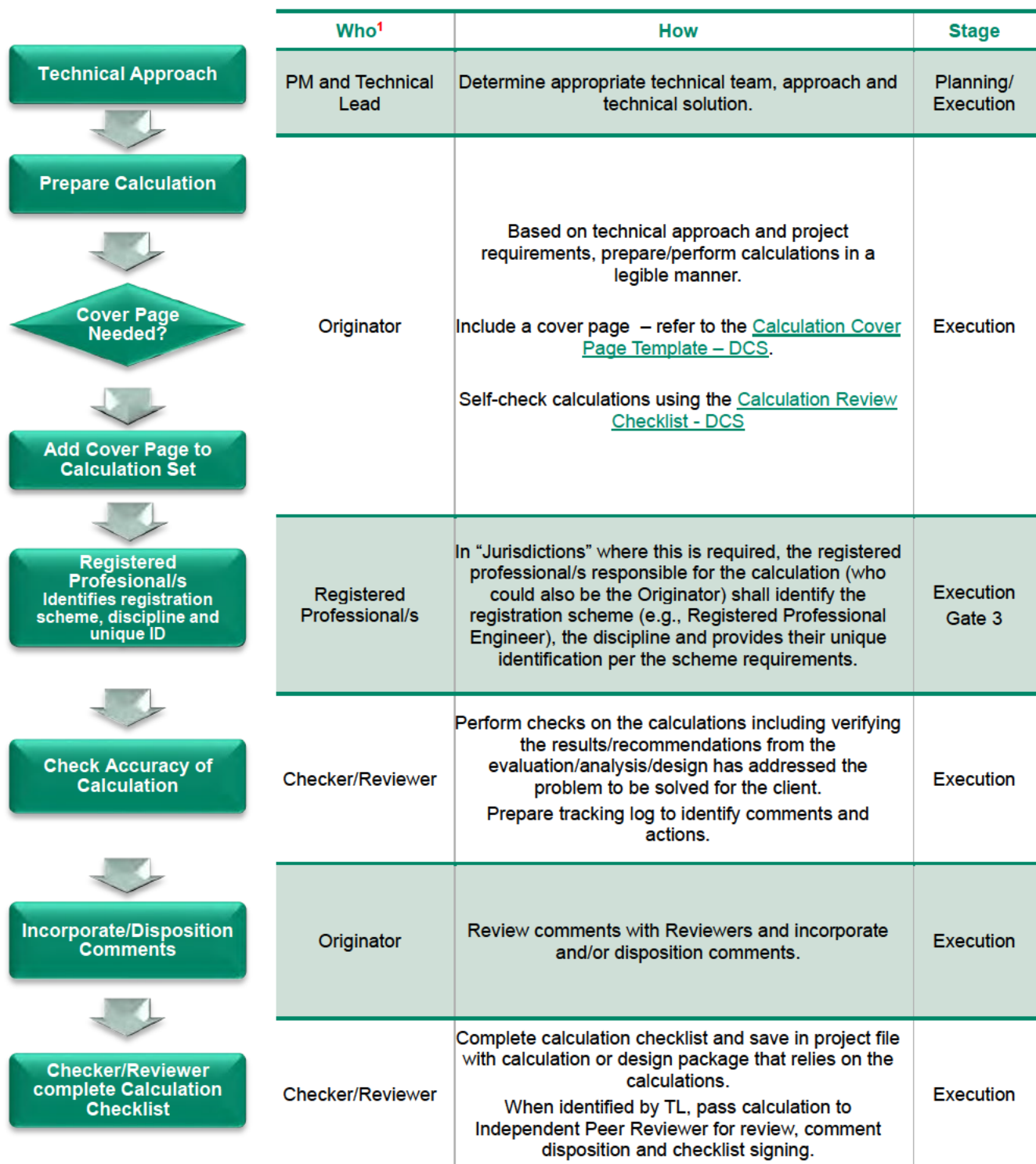
☐ **Independent Calculations (C-0 Projects ONLY)**

A separate, independent set of calculations has been prepared, validating the original calculations.

Independent Calculation Preparer	Signature	Date

Calculation Preparation Instructions

Q2[DCS]-351-WI5



1. All roles mentioned throughout refer to “Lead Region/Office/Project Team” unless otherwise defined.

Related PPI

- [Project Plan Procedure - DCS Q2\[DCS\]-221-PR1](#)
- [Project Document and Records Control \(Information Management\) - DCS Q2\[DCS\]-222-PR1](#)
- [Technical Quality Review Procedure - DCS Q2\[DCS\]-351-PR1](#)
- [Validation of Software and Data Management Procedure - DCS Q2\[DCS\]-311-PR1](#)
- [Project Closure Procedure - DCS Q2\[DCS\]-401-PR1](#)
- [Unified File Index - DCS Q2\[DCS\]-222-WI1](#)
- [Records Management & Retention Procedure - AECOM Global Q1-004-PR1](#)

References

N/A

Terms & Definitions

- [AECOM Glossary](#)

Help & Training

- [Quality Insights - Calculation Preparation & Review](#)

Change Log

1. Purpose and Scope

The purpose of this document is to assist technical staff in the preparation of models and/or calculations and outlines the mandatory step of checking all calculations as part of the overall preparation and review of a project's deliverables – refer to the [Technical Quality Review Procedure – DCS](#). Checking of calculations occurs throughout the Execution Phase and is to be completed prior to deliverables being approved for use/issue.

The key participants involved are as follows and their role in the process, is outlined in Appendix 1.

2. Graded Approach

The graded risk approach applies to this document. The project's risk category (C-category) is determined by the AECOM Risk Assessment (ARA) completed as part of the [Workbench](#) project setup. Use the below matrix for the required rigor of this procedure based on the Risk Category of project.

C-3A	C-3	C-2	C-1	C-0
Calculation Review Checklist*	Calculation Review Checklist*	Calculation Review Checklist*	Calculation Review Checklist*	Calculation Review Checklist*

* = is optional in ANZ, Asia and EUR&I and MEA.

3. Instructions

- For specific projects or programs, the Project Manager, Project Approver and/or Profit & Loss Manager or Business Line technical management group shall indicate in the Project Plan if exceptions to this instruction should occur. The same level of quality is required for the preparation of calculations regardless of the level of complexity of the project.
- Checking of calculations is required on all projects, but the rigor and documentation of the check depends on the complexity of the calculation. A calculation review checklist is required for all calculations unless:
 - Simple math is included in a technical report and checked as a part of the report review process (documented on the TQRR); or
 - if there is equivalent evidence of checks i.e., stamps/initials on each page; or
 - there is a client equivalent calculation checklist required.
- In "Jurisdictions" where this is required, a registered professional must either conduct the calculation or directly supervise the work undertaken. This professional must identify the registration scheme (e.g., Registered Professional Engineer), the discipline and provide their unique identification per the scheme requirements on the calculation review record.

3.1 Calculation Preparation

- a. The following information should be provided in the calculation, or on a cover or summary page:
 - i. Objective A statement of the problem or question to be solved (if not obvious from the title).
 - ii. Method Identify the methods to be used, including software.
 - iii. Assumptions Clearly state any assumptions applied.
 - iv. References and Inputs Identify the inputs to the calculation and the references for inputs, equations, methods, etc. Design inputs used as the basis for calculations shall be verified by the Originator as obtained from a reliable source. Design equations, tables, field data etc., shall be referenced to the specific section of the applicable design code or manual. Any information not readily available to a reviewer should be attached as an appendix to the calculation.
 - v. Conclusions Clearly state the conclusions of the calculations including any limitations, conditions and/or exceptions
- b. Confirmations – Critical assumptions, as defined in the AECOM Glossary, need to be tracked and confirmed by the Originator as soon as valid and current data becomes available. The impact of any variances between assumptions and confirmed information must be evaluated, and any necessary revisions to calculations made.
- c. In assembling larger sets of calculations, or where providing summary information will be useful, the use of a calculation cover page may be helpful – refer to the [Calculation Cover Page Template - DCS](#).
- d. Prior to the results of a calculation being utilized for subsequent work, relevant calculations shall be reviewed and verified in accordance with the [Technical Quality Review Procedure - DCS](#) and documented on the [Calculation Review Checklist – DCS](#). As stated in Appendix 1, C-0 projects with technical calculations require an Independent Peer Review, if assigned by the Technical Lead, in addition to the technical review/check.
- e. Computer calculations shall include or reference documentation clearly explaining the program's function, nomenclature, and sign conventions utilized. All technical software must be validated in accordance with the [Validation of Software and Data Management Tools Procedure - DCS](#).
- f. Calculations utilizing computer programs to perform analyses or design shall include the following:
 - i. Name of the program including version or revision level.
 - ii. Identification and/or location of associated electronic files.
- g. Spreadsheet calculations shall be documented and organized so formulae used in the spreadsheet can be checked for accuracy of incorporation into the spreadsheet, using a calculator or other method. After validation of the spreadsheet calculations, the spreadsheet shall be protected to prevent inadvertent modification of the embedded formulae.
- h. Calculations are to be neat, legible, and suitable for reproduction, including a header with space for identifying the calculation title, page numbers, project name and number, and the Originator's and Reviewer's names, initials, and dates.
- i. Calculations must be organized and logically presented, and are to include sufficient notes, explanations, and sketches to make the calculation easily followed. The intent is to make calculations understandable by an individual competent in the subject matter without going back to the Originator.

3.2 Revisions to Calculations

Revisions (or cancellations) may be required after an initial set of calculations has been reviewed. These revisions may be a result of client comments, scope changes, or errors found during checking. Revisions to the calculations do not necessarily warrant a second review of the entire set of calculations. Only the revised portion of the calculations may need to be reviewed. Required revisions shall, therefore, be completed as follows to appropriately document the revisions made:

- a. Revisions shall be reviewed and approved in the same manner as the original. The Originator and Reviewer of the calculations shall be responsible for the revision. The revision to the calculation shall be clearly identified and dated or shall be replaced by a new calculation.
- b. Revisions shall be prepared in a manner that provides a clear record of the content of the calculation, both prior to and after the revision. The reason for the revision should be identified.
- c. Revisions to calculations that impact other disciplines shall be immediately reported to the Project Manager and the affected disciplines.

3.3 Control of Calculations

- a. All calculations shall be organized and adequately indexed to facilitate retrieval of results and verification of completeness. A calculation index may be useful as a tool to help plan and organize the work, or may be developed upon completion of the calculations for record and archival purposes – refer to the [Calculation Index Template - DCS](#).
- b. The calculation review process shall be documented using the [Calculation Review Checklist – DCS](#) unless one of the three exceptions noted in Section 3b exist.
- c. Upon completion of the calculation review process, original calculations, including calculation cover pages, checklists, index pages and other associated documents shall be filed in the project's Unified File Index (UFI) with revision numbers and/or version dates for control in accordance with [Project Document and Records Control Procedure - DCS](#).

4. Records

- a. Technical Quality Review Record – DCS Q2[DCS]-351-FM1 ([Word](#) / [Fillable PDF](#))
- b. Calculation Checklist - DCS Q2[DCS]-351-FM3 ([Word](#) / [Fillable PDF](#))
- a. [Calculation Index Template – DCS Q2\[DCS\]-351-FM4](#)
- b. [Calculation Cover Page Template – DCS Q2\[DCS\]-351-FM5](#)

5. Appendices

- a. Appendix 1 – Calculation Preparation RACI

6. Change Log

Rev #	Change Date	Description of Change	Location of Change
0	05-31-2011	Previously Issued as NA Guidelines for the Preparation of Calculations (Q4NA-331-GL1).	Retired
0	05-16-2018	Elevated to a DCS Level 2 instruction and released as Q2[DCS]-351-WI1.	All
1	23-Mar-2020	2020 Review; introduced the Graded Risk Approach; minor edits.	All
2	15-Aug-2022	2022 Review; introducing the recognition of “Registered Professional/s” in jurisdictions where this is required; added optional use of Calculation Review Checklist for regions until review of Graded Approach; added Professional Registration line into App 1 RACI; minor edits.	Page 1, Section 2, 3(c), App 1.

Rev #	Change Date	Description of Change	Location of Change
3	14-Oct-2024	• 2024 Review. • Clarified all roles mentioned throughout refer to “Lead Region/Office/Project Team” unless otherwise defined. • Updated “Graded Approach” section to identify the AECOM Risk Assessment (ARA) is now part of project setup in Workbench. • Merged Sections 3.1 and 3.2 and reordered the steps. • Removed “Manual” from Section 3.1 title. • Minor edits and updated links.	Page 1 Section 2 Section 3.1

Appendix 1 Calculation Preparation RACI

R Responsible (completes the task) A Accountable (approves the task) C Consulted (has information or capability to help complete the task) I Informed (needs to be notified of task result)	Project Manager	Technical Lead	Originator	Reviewer	Independent Peer Reviewer*	Reference/Notes: Procedures (P) Template (T) Forms (F)
Prepare Calculation (Work Product/Project Work)						
1. Assign originator(s).	A	C				
2. Confirm Professional Registration	A	C	R			
3. Confirm design basis in technical approach.		A	R	C		
4. Develop the calculation cover page, optional.		A	R	C		Calculation Cover Page Template Q2[DCS]-351-FM5. T
5. Perform the calculation.		I	R	C		
6. Assure completeness and accuracy relative to design basis and technical approach.		I	R	C		
7. Complete conclusion portion of calculation cover page, optional.		I	R	C		Calculation Cover Page Template Q2[DCS]-351-FM5. T
8. Perform checks on the calculations including verifying the results/recommendations from the evaluation/analysis/design has addressed the problem to be solved for the client.	I	I	C	R	R*	*C-0 technical calculations assigned by Technical Lead.
9. Reconcile and incorporate Reviewers comments into Calculation.	I	A	R	C	C	
10. Sign Calculation Review Checklist.	I	C	R	A	R*	*C-0 technical calculations assigned by Technical Lead. Calculation Review Checklist – DCS Q2[DCS]-351-FM3 F

* Independent Peer Reviewer is required for C-0 project risk category projects when assigned by Technical Lead.

Calculation

EP 3.3-2F

Instructions:

1. Refer to [EP 3.3 Engineering Calculations](#) for information on this process.
2. Completed forms are to be kept in the project UFI Folder.
3. Delete **highlighted** instructions before submittal.

Calculation Number (#####-CAL-####):		Calculation Title:		Revision:	Page: 1 of 3
Project Number:		Project Title:		Date:	
Calculation Type: ☐ Scoping ☐ Preliminary ☐ Final ☐ Voided		Design Verification Required? (Select Yes if calculation is part of a design package required to be independently verified or the calculation is for items that have been classified as "Important to Nuclear Safety") ☐ Yes ☐ No		Superseded by Calculation No.: Supersedes Calculation No.:	
Was Software used: ☐ Yes ☐ No ☐ Non-safety software ☐ Safety Software		AECOM Computer Number: Software Name and Version: V&V package number: (V&V cover sheet must be an attachment to safety-related calculations using software).			

Original and Revised Calculation / Analysis Approval (Sign and Date)

- The signatures below shall denote that the checker has reviewed the text and attachment portion of the calculation.
- For Final Calculations (AECOM considers the calculation to be 100%, Revision 0 = Issue for Construction, etc.)
- Scoping and Preliminary Calculations require Originator and Checker Signatures (Revision A, etc.)
- Final Calculations (Revision 0, etc.) require Originator, Checker, and Engineering Manager Approval signatures
- Other signature is used for AECOM's acceptance of a subcontractor calculation performed per AECOM procedure

		Revision		Revision		Revision	
Originated By:	Name:		Click or tap to enter a date.		Click or tap to enter a date.		Click or tap to enter a date.
	Signature:						
Checked By:	Name:		Click or tap to enter a date.		Click or tap to enter a date.		Click or tap to enter a date.
	Signature:						
Approved By:	Name:		Click or tap to enter a date.		Click or tap to enter a date.		Click or tap to enter a date.
	Signature:						
Other:	Name:		Click or tap to enter a date.		Click or tap to enter a date.		Click or tap to enter a date.
	Signature:						

Record of Revision

Enter the Revision Number and Reason for Revision of the calculation. The list may start with Revision 0 for the initial issue or Revision 1 with reason for the revision. The reason shall include a description of the change(s) (i.e., added Sheet 3a, revised Sheet 6 to address correspondence XYZ).

Revision No.	Reason for Revision

Calculation Number (####-#CAL-###): Click or tap here to enter text.	Calculation Title: Click or tap here to enter text.	Revision: Click or tap here to enter text.	Page: 2 of 3
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Attachments

When available, enter each Attachment Number (A, B, etc.), Title, and total number of pages for each Attachment. Add a cover page for each attachment and include in the total page count. Include the Calculation Number, Revision No. and Page numbers to every page of the attachments (including cover).

Attachment No.	Title	Total Pages
Total Calculation Page Count		

1.0 Introduction

This section shall state the reason for originating the calculation and may describe alternatives examined. Limits of applicability shall be included (i.e., 1.1 Purpose, 1.2 Scope)

1.1 Purpose

1.2 Scope

2.0 Basis

This section shall state supporting information used to develop the calculation. References and sources shall be cited for basis values (see Section 3.0, "References," for citation requirements). Subsections should cover Section 2.1, "Design Inputs," Section 2.2, "Criteria," and Section 2.3, "Assumptions." Additional subsections should be provided as appropriate. Sources for basis values shall be identified.

2.1 Design Inputs

This paragraph shall include published or validated data with referenceable sources.

2.2 Criteria

This paragraph shall provide the criteria that apply specifically to the calculation.

Calculation Number (####-#CAL-###): Click or tap here to enter text.	Calculation Title: Click or tap here to enter text.	Revision: Click or tap here to enter text.	Page: 3 of 3
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2.3 Assumptions

This subsection shall list suppositions necessary to perform the calculation, identifying those that must be verified as the design proceeds. If it becomes necessary to release the calculation before assumptions can be verified, the assumptions shall be discussed in Section 5.0, "Results and Conclusions." Explicitly state or reference assumptions used in the calculation along with supporting data. Clearly state assumptions resulting from engineering judgment with the basis for that engineering judgment.

3.0 References

This section should provide page numbers, sections, and paragraphs or table numbers, and revision and date of issue for the cited reference in text.

4.0 Methods

Non-safety related calculations shall describe the basic approach taken in the analysis. Safety-related calculations shall describe the basic approach taken in the analysis.

5.0 Results and Conclusions

This section shall briefly state the results of the calculation and condition under which they apply. This section should be reconciled with the calculation Section 1.1, "Purpose" and Section 1.2, "Scope."

6.0 Calculations and Analyses

This section can be presented as additional pages (i.e., MathCAD, handwritten notes) or scanned images into the Word document.

EP 3.3-1F

Instructions:

1. Refer to [EP 3.3 Engineering Calculations](#) for information on this process.
2. Completed logs are to be kept in the project UFI Folder.
3. Add rows as required.

Project Number:	
Project Manager:	
Project Title:	
Discipline:	

[illegible]

DCS

Calculation Review Checklist

Q2[DCS]-351-FM3

Instructions:

1. Review of calculations can be guided by the questions listed below but not limited to. Add additional requirements where necessary.
2. Independent Peer Review, where required, concurrences as recorded on the Technical Quality Review Record Q2[DCS]-351-FM1.
3. File completed form on the front of the calculation.

Details			
Project Name		Date	
Project No.		Discipline	
Client		Subject	
Calculation No.		Rev No.	
Software Name (if used)		Software Version (if used)	
Originator			
Electronic File Name (if applicable)			
File Location of Versions Checked			

Review	Yes	No	N/A
1. Is the calculation in accordance with a standard approach to preparing the design?	☐	☐	☐
2. Have input data and information been verified and accepted?	☐	☐	☐
3. Do the calculations adopt the latest/necessary data? Tick "No" if calculations need to be updated when additional data becomes available and/or when assumptions have been confirmed?	☐	☐	☐
4. Have assumptions requiring follow-up been reviewed and confirmed?	☐	☐	☐
5. Have calculations prepared using technical software or excel spreadsheets (with macros or equations) been confirmed through a secondary method (i.e., manual, alternate software)?	☐	☐	☐
6. Are results and conclusions consistent and reasonable considering the inputs and approach?	☐	☐	☐
7. Have the Originator and the Checker/Reviewer signed and dated the calculation?	☐	☐	☐
8. Are the calculations associated with a "professional service" requiring the Originator (or individual who provided direct supervision for these deliverables) to be a "Registered Professional"? (For Regions where it is required). If "Yes" complete "Professional Registration" section in Approvals.	☐	☐	☐
9. Have all previous internal review comments been addressed and closed out with the originator?	☐	☐	☐
10. Have all previous client review comments been addressed and closed out?	☐	☐	☐
11. Are there any other considerations which require listing as additional scope to this review? – List if 'Yes'	☐	☐	☐
12. Is software used validated in accordance with AECOM procedure?	☐	☐	☐
13. Has an independent review and check of calculation been completed (if required)?	☐	☐	☐
14. Calculation/model version is archived in the relevant project folder structure?	☐	☐	☐

For any 'No' responses, please explain:

Approvals

Reviewer Name	Signature	Date

☐ **Professional Registration (where required)**

By completing the below, I confirm I am the Originator or have provided direct supervision for this deliverable.

Registration Scheme	Discipline / Area of Practice	Name of Registered Professional	Signature	Registration No.	Date

☐ **Independent Calculations (C-0 Projects ONLY)**

A separate, independent set of calculations has been prepared, validating the original calculations.

Independent Calculation Preparer	Signature	Date

Specification Review Checklist

Q3[DCS]AM-351-FM4

Instructions:

1. This form is optional to assist the review of specifications, which can be guided by the questions listed below but is not limited to them.
2. It should be attached to the [Technical Quality Review Record – DCS Q2\[DCS\]-351-FM1](#) to support this process.
3. Attach/add additional information when necessary.
4. File completed form with deliverable.

Details

Project Name				Date	
Project No.				Discipline	
Client				Rev No.	
Specification Sections					
Review Level	☐ Final Submission	☐ Pre-Final Submission	☐ Other:		
Originator				Specification Coordinator	
Discipline Reviewer				Lead Verifier	
Electronic File Name (if applicable)					
File Location of Versions Checked					

Discipline Review	Yes	No	N/A
1. Has the correct specification format been used?	☐	☐	☐
2. Is the specification section coordinated with applicable general and special provisions?	☐	☐	☐
3. Have duplications or variances between drawings and specifications been eliminated?	☐	☐	☐
4. Are nomenclature and item numbering used in specifications exactly as used on drawings and other contract documents?	☐	☐	☐
5. Are requirements for shop drawings specified, both as to content and timely submission?	☐	☐	☐
6. Have cited products and equipment been checked for updates and availability?	☐	☐	☐
7. Have all previous internal review comments been addressed and closed out?	☐	☐	☐
8. Have all of the client's review comments to previous drafts been closed out?	☐	☐	☐
Additional questions for non-standard specifications (only those which have not been created and maintained as a company or client standard):			
9. Are material / equipment identification requirements properly identified?	☐	☐	☐
10. Are appropriate codes, standards, processes etc referenced and dated?	☐	☐	☐
11. Are measurement units and basis of payment properly specified?	☐	☐	☐
12. Are shipping, cleaning, storage and handling requirements properly specified?	☐	☐	☐
13. Are provisions made for the qualification and approval of special construction processes?	☐	☐	☐
14. Are the acceptance criteria tests (tolerances, etc) specified and are they adequate, realistic and in line with industry practice?	☐	☐	☐
15. Is test and inspection documentation properly specified?	☐	☐	☐
16. Have client's sole-source requirements been followed?	☐	☐	☐

Discipline Review

	Yes	No	N/A
17. Are manufacturers' installation requirements referenced?	☐	☐	☐

For any 'No' responses, please explain:

Approvals

Discipline Reviewer	Signature	Date

Inter- discipline Review

Compatibility, interfaces, and potential interferences/conflicts between the designated discipline and all other disciplines have been reviewed using the specification(s) and supporting data by the following reviewers.

	Discipline (please specify)	Signature	Date	OK	Comments Made	Comments Resolved
☐				☐	☐	☐
☐				☐	☐	☐
☐				☐	☐	☐
☐				☐	☐	☐
☐				☐	☐	☐
☐				☐	☐	☐
☐				☐	☐	☐
☐				☐	☐	☐
☐				☐	☐	☐

For any 'No' responses, please explain:

Specifications Coordinator or Project Manager Review (to be completed on Lead Discipline Checklist ONLY)

	Yes	No	N/A
1. Are the specification format, type, nomenclature, item numbering, and level of detail consistent for all specification sections?	☐	☐	☐
2. Have required discipline reviews been completed and documented for all specification sections?	☐	☐	☐
3. Have all specification sections been reviewed for inter-discipline conflicts?	☐	☐	☐
4. Have methods and measurements of payment been checked for consistency and conflicts?	☐	☐	☐

For any 'No' responses, please explain:

Approvals

Specifications or Project Manager Coordinator	Signature	Date

DCS - Americas

Study/Report Review Checklist

Q3[DCS]AM-351-FM5

Instructions:

1. This form is optional to assist the review of study/reports, which can be guided by the questions listed below but is not limited to them.
2. It should be attached to the [Technical Quality Review Record – DCS Q2\[DCS\]-351-FM1](#) to support this process.
3. Attach/add additional information when necessary.
4. File completed form with deliverable.

Details

Project Name				Date	
Project No.				Discipline	
Client				Rev No.	
Study/Report Title/Chapter					
Review Level	☐ Final Submission	☐ Pre-Final Submission	☐ Other:	% Submission	
Originator				Project Manager	
Discipline Reviewer				Lead Verifier	
Electronic File Name (if applicable)					
File Location of Versions Checked					

Discipline Review

	Yes	No	N/A
1. Has the discipline portion of the study/report meet or support the stated objectives of the project?	☐	☐	☐
2. Are assumptions, criteria, or basis for evaluation of alternatives clearly described?	☐	☐	☐
3. Is supporting material identified appropriate and accessible?	☐	☐	☐
4. Have backup calculations been checked, reviewed and documented?	☐	☐	☐
5. Have embedded drawings, sketches, figures, and other graphics been checked and reviewed?	☐	☐	☐
6. Are results logical and reasonable and are they stated accurately?	☐	☐	☐
7. Have embedded tables been checked and reviewed?	☐	☐	☐

For any 'No' responses, please explain:

Approvals

Discipline Reviewer	Signature	Date

Inter- discipline Review

Compatibility, interfaces, and potential interferences/conflicts between the designated discipline and all other disciplines have been reviewed using the study/report(s) and supporting data by the following reviewers.

Discipline (please specify)	Signature	Date	OK	Comments Made	Comments Resolved
☐			☐	☐	☐
☐			☐	☐	☐
☐			☐	☐	☐
☐			☐	☐	☐
☐			☐	☐	☐
☐			☐	☐	☐
☐			☐	☐	☐
☐			☐	☐	☐
☐			☐	☐	☐
☐			☐	☐	☐

For any 'No' responses, please explain:

Project Manager (to be completed on Lead Discipline Checklist ONLY)

	Yes	No	N/A
1. Is the study or report format consistent with the client's requirements?	☐	☐	☐
2. Are all conclusions and recommendations fully supported and explained in the text?	☐	☐	☐
3. Has the report been completed in accordance with the scope of work?	☐	☐	☐
4. Is the index or table of contents complete and accurate?	☐	☐	☐
5. Is tense consistent and has the text been spell/grammar checked?	☐	☐	☐
6. Has the report been properly titled and dated?	☐	☐	☐
7. Have all contractually specified alternatives been addressed?	☐	☐	☐
8. Have all previous internal review comments been addressed and closed out?	☐	☐	☐
9. Have all previous client review comments been addressed and closed out?	☐	☐	☐

For any 'No' responses, please explain:

Approvals

Project Manager	Signature	Date

APPENDIX C – INDEPENDENT PEER REVIEW BRIDGE QC FORMS

- *LADOTD Peer Review Resolution Agreement Form*
- *AECOM QMS Independent Peer Review Bridge QC Form – Technical Quality Review Record*

APPENDIX E—PEER REVIEW RESOLUTION AGREEMENT

Project No.:

Project Name:

We, the undersigned Peer Reviewer, Supervisor or Team Leader of the design team, and LADOTD Representative for this project, have reviewed and accepted the attached peer review resolutions. We certify that the peer review has been performed in accordance with the LADOTD Bridge Design Section policy on QC/QA.

Team Members	Name	Signature
Peer Reviewer		
Supervisor or Team Leader		
LADOTD Representative		

DCS

Technical Quality Review Record (TQRR)

Q2[DCS]-351-FM1

Instructions

- For information on the Technical Review process, refer to the [Technical Quality Review Procedure – DCS Q2\[DCS\]-351-PR1](#) and the [Technical Quality Review Job Aid – DCS Q2\[DCS\]-351-WI2](#).
- Reminder - Checking Table: Depending on volume, teams can attach a table with the minimum required details noted below OR if using the MS Word version, insert additional rows OR if using the fillable PDF version, the Technical Quality Review – Supplementary Checkers' Table – DCS Q2[DCS]-351-FM8 can be used ([Fillable PDF](#) / [Word](#)).

Project Details		TQRR No. (Optional)	
Project No.		Delivery Date	
Project Name		PM Name	
C- Category	Select....	Comments Due By	
Client/Client POC		Technical Lead	
Title of Work Product		TQR Team Assigned	

Type	Review Scope	Other (e.g. Construction Services documentation)
☐ Calculation Check (complete Calculation Review Checklist - DCS - required). ☐ Independent Peer Review (IPR). ☐ Biddability / Contract Documents Review. ☐ Subconsultant, Client, or Third-Party Information Review.	☐ Constructability Review. ☐ Interdisciplinary Review. ☐ Discipline Review. ☐ Technical Approach and solution review. ☐ Specification Package Review. ☐ Contract Document Review.	Specify
☐ Appropriate budget, schedule and resources. ☐ Soundness of approach/design. ☐ Technical risk and mitigation. ☐ Validation of assumptions. ☐ Conformance with standards and regulatory requirements. ☐ Check of calculations. ☐ Client input review.	☐ Review of client, sub and third-party information. ☐ Edit for elements such as grammar, punctuation, formatting and graphics. ☐ Adequacy of Statements of Limitations. ☐ Verify technical solution. ☐ Basis and validity of conclusion / recommendation.	☐ Check of drawings and graphics. ☐ Compliance with scope. ☐ Organization, clarity and completeness. ☐ Specification Review. ☐ Contract Document Review. ☐ Other:

Checking (Required for ALL Projects)

Discipline	Description (Calc/Rpt/Dwg/Specs)	*Format / Network Link	Originator Initials	Reviewer/Checker Signature	Date
Technical Quality Review – Supplementary Checkers' Table (or equivalent)		☐ N/A ☐ Linked			

*Format Legend = N (None), HC (Hard Copy), EF (Electronic File – add network link), or RCF (Review Comment Form).

- Originator initials indicate self-check is complete and the document is ready for checking.
- Reviewer/Checker signature indicates verification of the accuracy and completeness of the work product and Reviewer/ Checker comments have been incorporated, including subsequent or new comments; further, Reviewer is not an Originator of the work product.

Verification (Required for C-3, C-2, C-1 and C-0 Projects)

Lead Verifier signature indicates confirmation the work product is complete and in accordance with the technical approach/ solution.

Lead Verifier Select One:

☐ Lead Verifier has verified that review(s) have been adequately completed and documented. There are no outstanding issues.

or

☐ Lead Verifier has verified that review(s) have been adequately completed and documented, except for unresolved items (items not impacting adequacy of submittal). Any unresolved items have been submitted to the Project Manager or Designee for final resolution.

Lead Verifier Name and Discipline	Lead Verifier Signature	Date
Lead Verifier Name and Discipline	Lead Verifier Signature	Date
Lead Verifier Name and Discipline	Lead Verifier Signature	Date
Lead Verifier Name and Discipline	Lead Verifier Signature	Date
Lead Verifier Name and Discipline	Lead Verifier Signature	Date

Professional Registration (Where Necessary)

By completing the below, I confirm I am the Originator or have provided direct supervision for this deliverable.

Registration Scheme	Discipline / Area of Practice	Name of Registered Professional	Signature	Registration No.	Date

Approval (Required for All Projects)

☐ Confirmation the deliverable has been reviewed for overall completeness, compatibility and conformance with scope and other contract requirements; all applicable reviews have been completed, and deliverable is ready for submission to the client.

Project Manager (or Delegate) Signature	Date
Project Quality Manager Name (If not performed by LV or PM)	Project Quality Manager Signature (If not performed by LV or PM)
	Date

Independent Peer Review (C-0 Projects)

Comments have been provided on:		☐ Directly on work product (electronic or on hard copy)	☐ Comment and Disposition Form
		☐ Other (paste link to network file):	
Independent Peer Reviewer Name (as applicable)	Independent Peer Reviewer Signature (as applicable)		Date
DISTRIBUTION	Project Central File – Quality File Folder	Other – Specify:	

APPENDIX D – QUALITY ASSURANCE & DELIVERABLE RELEASE RECORD FORMS

- *LADOTD QA Information Package Checklist*
- *LADOTD QC/QA Certification*
- *LADOTD Consultant Submittal QC/QA Certification*
- *AECOM QMS Document Transmittal*

APPENDIX C—QA INFORMATION PACKAGE CHECKLIST

Project No.:

Project Description:

_____	Calculation Book
_____	Plans
_____	Special Provisions
_____	Cost Estimate
_____	Other Documents _____

APPENDIX D—QC/QA CERTIFICATION

Project No.:

Project Name:

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

Team Members	Name	PE Registration No.	Responsible Plan Sheets	Responsible Special Provisions	Construction Cost Estimate	Signature
Designers						
Design Checkers						
Detailers						
Detail Checkers						
Reviewers						
Peer Reviewer						
Geotechnical Engineer						
Hydraulic Engineer						
EOR						

APPENDIX I—CONSULTANT SUBMITTAL QC/QA CERTIFICATION

Project No.:

Project Name:

I, the undersigned Supervisor or Team Leader for this project, certify that the information included in this submittal has been prepared in accordance with the QC/QA plan documents and LADOTD Bridge Design Section policy on QC/QA and the information presented is accurate and meets the requirements of this submittal. All CAD drawings meet LADOTD CAD standards.

Submittal Description

Supervisor or Team Leader Name

Signature

Date

DCS - Americas

Document Transmittal

AP 6.1-1F

Instructions:

1. Refer to [AP 6.1 Document Control](#) for information on this process.
2. Completed forms are to be kept in the project UFI Folder.

Sign and return this section via e-mail to:			
Technical Document ID No:		Date	Click or tap to enter a date.
To:		Return Responses To:	
cc:		Return By:	Click or tap to enter a date.
Project:		Number of Copies:	
Description:			

Client Action Items	AECOM Action Items
☐ For Approval	☐ Not Applicable
☐ For Review	☐ UCNi Controlled Document
☐ For Reference	☐ Records UFI No:
☐ QA Original Records	☐ Non-Permanent ☐ Lifetime
☐ Change Request	☐ Scanned
☐ Document Control Submittal for Records Filing	☐ CD to Client Dual Storage CD Made? ☐ Yes ☐ No
☐ Other:	☐ For QA Files
	☐ Other:

Instructions/Remarks:

Action: (A=Approval; R=Review; I=Information; and N/A=Not Applicable)				
Action	Disciple	Name	Signature	Date
	Project Mgr			Click or tap to enter a date.
	Engineering Mgr/Technical Lead			Click or tap to enter a date.
	Business Line Lead			Click or tap to enter a date.
	Quality Assurance			Click or tap to enter a date.
	Program Director			Click or tap to enter a date.
	ES&H Mgr			Click or tap to enter a date.

Action: (A=Approval; R=Review; I=Information; and N/A=Not Applicable)

Action	Disciple	Name	Signature	Date
	Contract/Project Supt Mgr			Click or tap to enter a date.
	Process Technology Mgr			Click or tap to enter a date.
	Other:			Click or tap to enter a date.
	Other:			Click or tap to enter a date.

Client Receipt (Sign and Return)			Click or tap to enter a date.
	Printed Name	Signature	Date
AECOM QA Record Receipt/Authentication ☐ Authentication documented in DCRMS			Click or tap to enter a date.
	Printed Name	Signature	Date

Documents Transmitted				
Number	Revision	Title	No. of Pages	Dated
				Click or tap to enter a date.
				Click or tap to enter a date.
				Click or tap to enter a date.
				Click or tap to enter a date.
				Click or tap to enter a date.

22. Sub-consultant information

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and Email Address	Phone Number
Ardaman & Associates, Inc.	316 Highlandia Dr., Baton Rouge, LA 70810	Robert Jewell, PE RJewell@ardaman.com	225.666.4598
Bridge Diagnostics, Inc.	4300 S I-10 Service Rd W Suite 210, Metairie, LA 70001	Steven Fall, PE stevenf@bditest.com	504.874.1042
Consor North America, Inc.	110 West Airline Drive, Suite F, Kenner, LA 70062	Michael Dukes; mdukes@consoreng.com	864.431.0572
Forte and Tablada, Inc.	9107 Interline Ave., Baton Rouge, LA 70809	Russell "Joey" Coco, Jr. jcoco@forteandtablada.com	225.927.9321
KPFF, Inc.	450 Laurel Street, 8th Floor, Baton Rouge, LA 70801	Chris Ligozio Chris.ligozio@kpff.com	585.465.5092
Marrero, Couvillon & Associates, L.L.C.	3525 Hessmer Ave, Suite 304, Metairie, LA 70002	Kimball Schlafly, P.E. kschlafly@mca-llc.com	504.834.3448
T. Baker Smith, LLC	17927 Old Jefferson Highway, Prairieville, LA 70769	TJ Stokes, PE T J.Stokes@tbsmith.com	985.302.0728
Vectura Consulting Services, LLC	PO Box 14269, Baton Rouge, LA 70898	Brin Ferlito bferlito@vecturacs.com	225.223.6685
Wiss, Janney, Elstner Associates, Inc.	330 Pfingsten Road, Northbrook, IL 60062	Jonathan McGormley jmcgormley@wje.com	847.753.7234

23. Location:

Section left intentionally blank.