PROPOSAL TO PROVIDE ENGINEERING AND RELATED SERVICES

IDIQ CONTRACT FOR IN-DEPTH BRIDGE INSPECTION STATEWIDE

CONTRACTS NOS. 4400029683, 4400029684, AND 4400029685

AUGUST 8, 2024

SUBMITTED TO

LOUISIANA DEPARTMENT
OF TRANSPORTATION
AND DEVELOPMENT

SUBMITTED BY

Michael Baker
INTERNATIONAL

SECTIONS 1-11

CONTRACT AND CONSULTANT INFORMATION

DOTD FORM: 24-102

(Revised January 2023)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1. Contract Name as shown in the advertisement	IDIQ Contract for In-Depth Bridge Inspection Statewide
2. Contract Number(s) as shown in the advertisement	4400029683, 4400029684, AND 4400029685
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name (name must match as registered with the Louisiana Secretary of State where such registration is required by law)	Michael Baker International, 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)	E.F. 0000062 V.F. 0000010
6. Prime consultant mailing address	2600 Citi Place Drive, Suite 450 Baton Rouge, Louisiana 70808
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Daniel Thornhill, PE Office Manager - Associate Vice President 225-218-2846 | daniel.thornhill@mbakerintl.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	

BY CHOOSING MICHAEL BAKER, LADOTD WILL BENEFIT FROM:

UNPARALLELED BRIDGE INSPECTION AND LOAD RATING EXPERTISE

Michael Baker brings a unique perspective to identify and verify bridge inspections that protect our clients and the traveling public. Michael Baker literally wrote the book on bridge inspection, having **authored the FHWA Bridge Inspector's Reference Manual**. Our team has provided bridge inspection and load rating services for LADOTD, OSARC, MDOT, and many other DOTs nationally for more than 5,000 structures during the past 13 years. This experience allows us to best judge the repair or maintenance types needed and provide clients with necessary/comprehensive/accurate/reliable data to make decisions for structure management.

INNOVATIVE UNMANNED AERIAL SYSTEM CAPABILITIES

We are a leader in Unmanned Aerial System (UAS). The use of UAS can help provide a more thorough inspection in previously hard to reach spaces, assist with multi-level direct connector inspections without resorting to under bridge inspection trucks, reduce the duration of lane closures, and reduce costs. **Michael Baker wrote *NCHRP 12-122 Proposed AASHTO Guidelines for Applications of Unmanned Aerial Systems Technologies for Element- Level Bridge Inspection***, and recently presented the findings at the 2024 International Bridge Conference.

AVAILABLE RESOURCES

DOTD stands to gain from our robust staff, many of whom are Louisiana locals. Michael Baker recognizes the importance of adjusting staffing levels to match design and construction demands, and our team incorporates redundancies across all disciplines. With multiple qualified design staff supporting each discipline during peak design reviews, we ensure efficiency. Additionally, we'll assign at least one dedicated, fully-certified inspector to each bridge end, minimizing travel time and ensuring timely construction progress.

10. *This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.*	Signature above shall be the same person listed in Section 9: August 8, 2024 Date: Addendum 1 was issued on 7/26/2024.
11. *If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.*	Firm(s): — Firm(s)' %: Vectura Consulting Services, LLC — 2.70% Marine Solutions, Inc. of Kentucky — 3.60% Infinity Engineering Consultants, LLC — 4.50%

MICHAEL BAKER AT A GLANCE

The DBE goal for this contract is 2%. Michael Baker will exceed that goal with 10.8% DBE participation.

84+ Years
of Engineering Excellence

4,000+
Professionals Nationwide

150+
Projects Completed for LADOTD

100+
Offices Nationwide

20+
Offices in the Southern Region

2024 ENR RANKINGS

THE TOP **500** DESIGN FIRMS

28	Top 500 Design Firms
18	Top 100 Pure Designers
5	Bridges
6	Dams & Reservoirs
11	Water Supply
13	Transportation
16	Construction Management
16	Highways
18	Airports
21	Mass Transit & Rail

Michael Baker provides the full spectrum of services related to bridge design, analysis, load rating, preservation, maintenance and inspection with innovative and sustainable solutions. Inspection has been a primary component and and focus of Michael Baker's bridge services throughout our more than 80-year history. The combination of our national expertise, involvement with NHI course development and instruction, and decades of experience inspecting bridges offers DOTD qualifications and experience that few other consultants can match. Our passionate team is dedicated to DOTD's success and envisions a long-term partnership.

Michael Baker wrote the book on bridge inspection, having authored the popular FHWA Inspector's Training Manual 90 including up to six updates over the past 30 years with the latest being the Specifications for National Bridge Inventory (SNBI) Version of the Bridge Inspector's Reference Manual (BIRM) in 2023. This manual has been used by tens of thousands of consulting and state bridge inspectors across the country and serves as the comprehensive guide to all aspects of in-service bridge inspection. The BIRM also serves as the basis for NHI bridge inspection training courses, which were mostly developed and recently upgraded by Michael Baker and are taught throughout the nation. Over 30 bridge inspection and load rating manuals have been written for both FHWA and State bridge owners and we are currently updating many to accommodate the new NBIS rules and SNBI. Michael Baker has also developed 15 inspection and load rating courses and taught them to approximately 35,000 participants to date.

SECTION 12

PAST PERFORMANCE EVALUATION DISCIPLINE TABLE

12. Past Performance Evaluation Discipline Table:

Past Performance Evaluation Discipline(s)	*% of Overall Contract*	*Michael Baker*	*Gresham Smith*	*KTA - Tator, Inc.*	*Infinity Engineering Consultants, LLC*	*Forte & Tablada, Inc.*	*Vectura Consulting Services, LLC*	*Marine Solutions, Inc. of Kentucky*	*Each Discipline must total to 100%*
Bridge	90.00%	64.00%	21.00%	6.00%	5.00%	0.00%	0.00%	4.00%	**100%**
Road	3.50%	70.00%	30.00%	0.00%	0.00%	0.00%	0.00%	0.00%	**100%**
Traffic	3.00%	5.00%	5.00%	0.00%	0.00%	0.00%	90.00%	0.00%	**100%**
Survey	3.50%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	**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%**	**60.20%**	**20.10%**	**5.40%**	**4.50%**	**3.50%**	**2.70%**	**3.60%**	

SECTION 13

FIRM SIZE

13. Firm 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)*
Michael Baker INTERNATIONAL	Principal	1	3
	Supervisor - Engineer	3	12
	Supervisor - Other	8	70
	Engineer	4	12
	Engineer - Intern	8	32
	Engineer Other	8	40
	Inspector - Bridge	4	45
	Senior Technician	2	18
	Technician	2	14
	CADD Drafter	2	8
	GIS Analyst	1	10
	Administrative	1	4
Gresham Smith	Principal	1	1
	Supervisor - Engineer	4	8
	Engineer	2	6
	Engineer - Intern	4	8
	Inspector - Bridge	1	3
	Clerical	1	1
KTA	Supervisor - Other	2	4

** The quantity of staff shown is intended for peak coverage, and it is not anticipated that all staff will be assigned concurrently. Our approach and methodology details our understanding of how best to scale staffing needs up and down to meet the needs of this project. The number of personnel committed to this contract will vary depending on the work that is issued for each task order. Michael Baker will make sure the appropriate team staff are assigned to task orders.*

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
Infinity Engineering Consultants	Engineer	2	11
	Engineer - Intern	1	3
	Other (Engineering Graduate)	1	3
	Inspector	0	3
	Designer	1	7
	Drafter	1	2
FORTE & TABLADA	CADD Technician	2	4
	Instrument Man	2	3
	Party Chief	2	5
	Principal	1	3
	Rodman	2	5
	Senior Technician	3	6
	Surveyor	1	5
VECTURA	Supervisor - Engineer	2	2
	Engineer	3	3
	Engineer - Intern	2	2
	Inspector	1	1
	Senior Technician	1	1
	Supervisor - Other	1	1
	Clerical	1	1
MARINE SOLUTIONS	Engineer	8	49
	Inspector	3	69

STAFF RESOURCING PLAN & PROJECT SCHEDULES

Based on our review of the scope of services for this IDIQ, we have identified as shown in Section 13/Section 14 the core staff that will be assigned to this contract. The number of staff that will be active depends on the task orders that are given, the type and complexity of work, and the schedule.

SECTION 14

ORGANIZATIONAL CHART

14. Organizational Chart:

YOUR DEDICATED, EXPERIENCED TEAM

LA DOTD PROJECT MANAGER

PRINCIPAL-IN-CHARGE
♦*Daniel Thornhill, PE [MBI]

TECHNICAL ADVISOR
Paul McGuinness, PE [MBI]

CLIENT LIAISON
*Jade Rung, PE, PMP [MBI]

QUALITY MANAGER
* Mary E. Flynn, PE [MBI] (Construction)
♦* Bert Moore, PE, PLS, PTOE [GS] (Traffic Control)
* Tony Hunley, PhD, PE, SE [MBI] (Bridges)
Ralph Gromley, PLS [MBI] (Survey)

DEPUTY PROJECT MANAGER
Michael Cresap, PE [MBI]

PROJECT MANAGER
xx * Ellis Luke McMahen, PE [MBI]

SURVEY
Brad Hollerman, PE, PLS [FT]
Ross Wilson, PLS [FT]
Brent Cambell [FT]
Rachel Waldroup, PLS [FT]

ROADWAY DESIGN
♦* Daniel Thornhill, PE [MBI]
♦* Brandon Pitre, PE, PTOE, RSP1 [MBI]
* Alison Gonzalez, PE [MBI]

TRAFFIC CONTROL
♦ Laurence Lambert, II, PE, PTOE, PTP [VCS]
♦ Kristen Farrington, PE, PTOE, RSP1 [VCS]
♦ * Rebecca Murray, PE [GS]

ABOVE WATER BRIDGE INSPECTION
TEAM LEADERS
xx Joshua Derechin, PE [MBI]
xx *Ellis Luke McMahen, PE [MBI]
xx Joseph Brach, CBI, SPRAT III [MBI]
xx Albert Ho, PE [MBI]
Don Harris, PE [MBI]
Jesus Armendariz [MBI]
John Weres, PE [GS]
xx Courtney Rome, PE [GS]
Ryan Horn, EI [GS]
Jackson Hartley, EI [GS]
Russell Childs, PE [GS]
Yun Lin, PhD, PE [GS]

ASSISTANT TEAM LEADERS
xx Christopher Princiotta, CBI, SPRAT II [MBI]
Nathaniel Joseph, PE [MBI]
Danny Contreras [MBI]
Michael Jakiel [MBI]
xx Adam Wriston, PE, CBI [MBI]
Daniel Fint, PE [MBI]
Timothy Franciosa, PE [MBI]
Shawn Watrous, PE [MBI]
Brian Howlett, PE [MBI]

UNDERWATER BRIDGE INSPECTION
DIVER TEAM LEADER
* Brian Rhett, PE [MBI]
William Gwaltney, EIT [MBI]
Chris Perry, EIT [MBI]
Lee Murdoch, PE, CCM [MBI]

IMAGING
* Brian Rhett, PE [MBI]
Brent Cambell [FT]

INSPECTOR DIVER
Tristin Stewart [MBI]
John Loftus, PE [MS]
Jeremy Ross Whiting, PE [MS]
Kyle Morrow, PE [MS]
Brad Koch, PE [MS]
Anderson Potter, PE [MS]

MECHANICAL/MOVEABLE BRIDGES
John Weres, PE [GS]
Davis Cole, EI [GS]
Reese Hallek [GS]

ELECTRICAL
Gabe Peer, EPA [GS]
Matthew Torres, PE [IEC]
John Lawrence, PE [IEC]
Bart Lacomb [IEC]

BRIDGE REPAIR/DESIGN
* Phillip Walker, PE [MBI]
* Stephen Fowler, PE [MBI]
Aaron Stover, PE, SE [MBI]
* Shalin Sheth, PE [MBI]
* Jeffrey McRae, PE [MBI]

DESIGN SERVICES & LOAD RATING
xx Joshua Derechin, PE [MBI]
xx Joseph Brach, CBI, SPRAT III [MBI]
xx Adam Wriston, PE, CBI [MBI]
Philip Quillin, II, PE, PMP [MBI]
Robert Frye, PE [MBI]
Jeffrey McRae, PE [MBI]
Shalin Sheth, PE [MBI]

COATINGS/CORROSION/NDT
James Kretzler [KTA]
Robert Lanterman [KTA]

LEGEND
- Personnel fulfilling an MPR role
* - Louisiana PE
♦ - Personnel holds TCT, TCS, and Flagger certifications
xx - SPRAT Certified

PROJECT TEAM
Michael Baker International (MBI)
Gresham Smith (GS)
KTA-Tator, Inc. (KTA)
Infinity Engineering Consultants, Inc. (IEC) - **DBE**
Forte & Tablada, Inc. (FT)
Vectura Consulting Services, LLC (VCS) - **DBE**
Marine Solutions, Inc. of Kentucky (MS) - **DBE**

SECTION 15

MINIMUM PERSONNEL REQUIREMENTS

15. Minimum Personnel Requirements:

MPR No. Do not insert wording from ad	*Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)*	*Firm employed by*	*Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)*	*State of license*	*License/certification expiration date*
1	Daniel Thornhill, PE	Michael Baker International, Inc.	PE 32367 - Civil	LA	September 2024
2	Daniel Thornhill, PE	Michael Baker International, Inc.	PE 32367 - Civil	LA	September 2024
	Jade Rung, PE, PMP	Michael Baker International, Inc.	PE 29081 – Civil	LA	September 2026
3	Ellis Luke McMahen, PE	Michael Baker International, Inc.	PE 39510 - Civil	LA	September 2025
	Phillip Walker, PE	Michael Baker International, Inc.	PE 0046394 - Civil	LA	September 2024
4	Nathaniel Joseph, PE	Michael Baker International, Inc.	FHWA-NHI-130055	N/A	N/A
	Christopher Princiotta, CBI, SPRAT II	Michael Baker International, Inc.	FHWA-NHI-130053	MS	September 2027
			FHWA-NHI-130055	MS	N/A
			FHWA-NHI-130078	MS	January 2025
	Nick Riha, PE, PMP	Michael Baker International, Inc.	FHWA-NHI-130053	IL	February 2025
			FHWA-NHI-130055	IL	N/A
	John Weres, PE	Gresham Smith	PE 36429 - Civil	LA	September 2025
			FHWA-NHI-130053	NJ	N/A
			FHWA-NHI-130055	KS	N/A
			FHWA-NHI-130078	LA	N/A
			FHWA-NHI-130087	FL	N/A
			FHWA-NHI-130091B	TX	N/A
			FHWA-NHI-130092	MS	N/A
5	Danny Contreras	Michael Baker International, Inc.	FHWA-NHI-130055	NE	N/A
	Courtney Rome, PE	Gresham Smith	PE 43335 - Civil	LA	September 2025
			FHWA-NHI-130053	MS	N/A
6	Robert Lanterman	KTA - Tator, Inc.	NACE Certified Coatings Inspector Level 3 - #13505	N/A	May 2025
			SSPC Certified Protective Coatings Specialist #2015-820-136	N/A	December 2027
7	James Kretzler	KTA - Tator, Inc.	ASNT Level III MT, PT, RT, UT - #186946	N/A	October 2025

MPR No. Do not insert wording from ad	*Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)*	*Firm employed by*	*Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)*	*State of license*	*License/certification expiration date*
8	William Gwaltney, EIT	Michael Baker International, Inc.	ADCI Air Dive Supervisor 62853	N/A	April 2026
			ADCI Air Diver 61510	N/A	July 2025
			FHWA-NHI-380078	MD	N/A
			FHWA-NHI-130053	NJ	June 2027
			FHWA-NHI-130055	CT	N/A
			FHWA-NHI-130091	NH	N/A
	Chris Perry, EIT	Michael Baker International, Inc.	ADCI - 52909	N/A	May 2028
			FHWA-NHI-130078	CT	N/A
			FHWA-NHI-130053	WA	April 2027
			FHWA-NHI-130055	FL	N/A
			FHWA-NHI-130091	CT	N/A
			FHWA-NHI-130087	CT	N/A
	Lee Murdoch, PE, CCM	Michael Baker International, Inc.	ADCI #57517	N/A	March 2028
			FHWA-NHI-130053	MD	May 2028
			FHWA-NHI-130055	MD	N/A
			FHWA-NHI-130091	MD	N/A
9	Tristin Stewart	Michael Baker International, Inc.	FHWA-NHI-130091	CT	N/A
			FHWA-NHI-130078	SC	N/A
			ADCI - 62494	SC	February 2026
			ADCI - 62259	SC	January 2026
	John Loftus, PE	Marine Solutions	PE #0049019 – Civil	LA	September 2024
			ADCI #1765	N/A	December 2026
			FHWA-NHI-130055	N/A	N/A
			FHWA-NHI-130053	VA	November 2024
			FHWA-NHI-130078	N/A	N/A
			FHWA-NHI-130087	N/A	N/A
			FHWA-NHI-130091	N/A	N/A
			FHWA-NHI-135047	N/A	N/A

MPR No. Do not insert wording from ad	*Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)*	*Firm employed by*	*Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)*	*State of license*	*License/certification expiration date*
9	Jeremy Ross Whiting, PE	Marine Solutions	PE #0049014 – Civil	LA	September 2024
			ADCI #60158	N/A	August 2024
			FHWA-NHI-130055	MD	N/A
			FHWA-NHI-130053	KY	February 2028
			FHWA-NHI-130078	MD	N/A
			FHWA-NHI-130091	KY	N/A
	Kyle Morrow, PE	Marine Solutions	PE #59227 – Civil	MD	April 2026
			ADCI #63170	N/A	July 2026
			SPRAT #200033 – Level 2	N/A	February 2026
			FHWA-NHI-130055	N/A	N/A
			FHWA-NHI-130053	NY	February 2029
			FHWA-NHI-130078	OH	N/A
			FHWA-NHI-130087	MD	N/A
			FHWA-NHI-130091	KY	N/A
10	Brent Campbell	Forte & Tablada, Inc.	N/A	N/A	N/A
	Brian Rhett, PE	Michael Baker International, Inc.	ADCI – 55452	N/A	February 2027
			FHWA-NHI-130091	LA	N/A
			FHWA-NHI-135047	MN	N/A
			FHWA-NHI-130053	TX	December 2025
			FHWA-NHI-130055	SC	N/A
			FHWA-NHI-130078	SC	May 2029
11	Brad Hollerman, PLS	Forte & Tablada, Inc.	PLS 5082 – Survey	LA	September 2024
	Ross Wilson, PLS	Forte & Tablada, Inc.	PLS 5148 - Survey	LA	March 2026

SECTION 16

STAFF EXPERIENCE

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Ellis Luke McMahen, PE**		Years of relevant experience with this employer	18	
Title	Project Manager Construction Services		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			MEM / 2023 / Engineering Management & Systems Engineering BS / 2010 / Civil and Environmental Engineering BS / 2003 / Business Administration		
Active registration number / state / expiration date			Professional Engineer - 39510 / Louisiana / September 2025		
Year registered	2015	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			**MPR #3: Project Manager**		

Mr. McMahen is an experienced engineer who has worked on multiple complex CE&I projects, most recently the US 49 CE&I from Florence to the Scale Area (Richland, Mississippi). These projects have ranged in cost from $57 million to $253 million. Trained by numerous retired DOT engineers, he has performed every duty on a CE&I project, including but not limited to Survey, Lead Inspector, Assistant Project Engineer, Certified Stormwater Control, Traffic Control, and Project Engineer. Additionally, Mr. McMahen has experience in inspecting in-service bridges as a project manager and team leader. He is very familiar with various types of complex and fracture-critical bridges and has performed these duties in multiple states, including Arkansas, Louisiana, Mississippi, and Tennessee.

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).
09/17 – 08/20	**OSARC Statewide Bridge Inspection, Statewide, Mississippi.** *Mississippi Department of Transportation.* Team Leader. Responsible for in-depth inspections of bridges for State Aid. Provided hands-on approach. Documented the condition of the structures with measurements, notes, and photos. Provided the client with a report based on the findings and maintenance/repair options. Michael Baker provided inspection and engineering services under multiple contracts for the National Bridge Inventory bridge safety inspections, load rating, and reporting of bridges with varying superstructure types. Michael Baker's services included project management, development of inspection plans, routine and in-depth condition and appraisal inspections, load ratings, and preparing inspection and load-rating reports. The bridges were located on local road systems owned and maintained by various Mississippi counties, cities, and towns. Michael Baker inspected 1,322 bridges over nine years, from FY 2012 to FY 2020.
09/23 – Ongoing	**U.S. 84 Natchez Fracture Critical Inspection, Natchez, Mississippi.** *Mississippi Department of Transportation.* Project Manager. Responsible for leading a team performing a Nonredundant Steel Tension Member (NSTM) inspection of the U.S. 84 truss bridges over the Mississippi River. Michael Baker used a hybrid method of rope access and equipment (man-lifts, under-bridge inspection) to perform a non-redundant steel tension member fraction critical inspection of the U.S. 84 truss bridges over the Mississippi River in Natchez, Mississippi. Michael Baker's services included an inspection of the bridge, traffic control, documentation of the deficiencies, and report preparation in accordance with the latest AASHTO Manual for Bridge Evaluation.
10/18 – 02/19	**U.S. 84 Bridge Inspection, Natchez, Mississippi.** *Mississippi Department of Transportation.* Project Manager. Responsible for routinely inspecting two Mississippi River Truss Bridges in Natchez, Mississippi, for MDOT. Michael Baker used a hybrid rope access method and equipment (man-lifts, under-bridge inspection) to perform a routine and fracture-critical inspection of the U.S. 84 truss bridges over the Mississippi River. Michael Baker's services included a full inspection of the bridge, traffic control, a hydrographic survey, documentation of the deficiencies, and report preparation in accordance with the latest AASHTO Manual for Bridge Evaluation.

04/17 – 04/17	**Hernando de Soto Bridge Inspection, Crittenden County, Arkansas, and Shelby County, Tennessee.** *Arkansas Department of Transportation.* Team Leader. Responsible for hands-on inspection of fracture critical members in the two trusses for the Mississippi River Bridge in Memphis, Tennessee, on I-40. Michael Baker performed a hands-on fracture-critical inspection of the Hernando DeSoto Bridge, which carries I-40 over the Mississippi River. Michael Baker's services included hands-on inspection of all main members, visual inspection of all secondary members, condition documentation, and preparation of an inspection report.
08/15 – 05/16	**Inspection of Locally Owned Complex and Fracture-Critical Bridges, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Team Leader. Responsible for several in-depth inspections of bridges for State Aid. Provided hands-on approach. Documented the condition of the structures with measurements, notes, and photos. Provided the client with a report based on the findings and maintenance/repair options. Michael Baker provided engineering services for inspecting 105 locally owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services included project management, the preparation of bridge inspection plans, in-depth and fracture-critical inspections, condition and load ratings, and preparation of inspection reports.
09/13 – 07/15	**Complex and Fracture-Critical Bridge Inspections, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Bridge Inspector. Responsible for the inspection of in-service bridges for OSARC. Performed routine and fracture-critical inspections of in-service bridges. Took pictures and detailed notes documenting any areas of concern for the structures. Helped with writing the technical reports. Michael Baker is providing engineering services for inspecting 101 locally-owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services include project management, the preparation of bridge inspection plans, condition, appraisal, fracture-critical inspections, load ratings, and inspection and load rating reports.
06/14 – 05/15	**Biennial Inspection of the U.S. 82 Cable-Stayed Bridge over the Mississippi River, Washington County, Mississippi.** *Mississippi Department of Transportation.* Bridge Inspector. Responsible for inspecting cable-stayed bridge in Greenville, MS. Helped with routine and fractured critical inspections. Took pictures and detailed notes documenting any areas of concern for the structure. Helped with the writing of the technical report. Michael Baker performed a routine and fracture-critical inspection of the U.S. 82 cable-stayed bridge over the Mississippi River near Greenville, Mississippi. Michael Baker's services included bridge inspection using under-bridge inspection vehicles, a large man lift, and climbing by Society of Professional Rope Access Technicians-certified inspectors; traffic control; hydrographic survey; and documentation of deficiencies and report preparation, in accordance with the latest AASHTO Manual for Bridge Evaluation.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Michael Cresap, PE**		Years of relevant experience with this employer	4	
Title	Project Manager - Bridge Inspection		Years of relevant experience with other employer(s)	29	
Degree(s) / Years / Specialization			BS / 1991 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer - 39510 / Mississippi / December 2024		
Year registered	1996	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Deputy Project Manager		

Mr. Cresap joined Michael Baker as part of the Bridge Engineering Team in the Ridgeland, Mississippi office after serving with the Mississippi Department of Transportation (MDOT) for 29 years. While at MDOT, Mr. Cresap served as the Transportation Information Division Director, a position he held for nine years. As Transportation Information Division Director, Mr. Cresap's responsibilities included managing MDOT's enterprise Geographic Information System (GIS) program, providing technical assistance to districts and divisions for managing transportation asset data, and developing data collection and management applications. Before working in the Transportation Information Division, Mr. Cresap was a Design Section Engineer within MDOT's Bridge Division. Responsibilities for this role included supervision of structural and hydraulic design and plan preparation activities, constructability reviews, and providing technical assistance to Divisions and Districts for construction, inspection, repair, and maintenance activities of 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).
10/23 - Ongoing	**OSARC Local System Manual Update, Statewide, Mississippi.** *Mississippi Department of Transportation.* Project Manager. Responsible for overall project oversight for developing a report summarizing the efforts required to update OSARC's current manual to be in compliance with new NBIS regulations and SNBI inspection requirements. This work involves coordinating with Michael Baker's staff to perform a comprehensive review of the current OSARC manual and supplemental documents and developing a Survey for bridge inspectors and County Engineers feedback.
08/23 - Ongoing	**Bridge Inspection and Related Services IDIQ Master Contract 2023.** *Mississippi Department of Transportation.* Project Manager. Responsible for overall project oversight; establishing and administering QA/QC controls that ensured quality project deliverables; developing and maintaining detailed project work plans and equipment and inspection schedules; coordinating with Michael Baker's bridge inspection teams and rigging subcontractor's bridge inspection equipment; monitoring project status; providing status reports to the client, reporting critical findings or urgent issues affecting public safety to the client; performing QA/QC reviews of inspection and load rating; and approving inspection and load rating information in the OSARC AssetWise System.
08/22 - 07/23	**Bridge Inspection and Related Services IDIQ Master Contract 2022.** *Mississippi Department of Transportation.* Project Manager. Responsible for overall project oversight; establishing and administering QA/QC controls that ensured quality project deliverables; developing and maintaining detailed project work plans and equipment and inspection schedules; coordinating with Michael Baker's bridge inspection teams and rigging subcontractor's bridge inspection equipment; monitoring project status; providing status reports to the client, reporting critical findings or urgent issues affecting public safety to the client; performing QA/QC reviews of inspection and load rating; and approving inspection and load rating information in the OSARC AssetWise System.
08/21 - 7/22	**OSARC 2021 Bridge Inspection.** *Mississippi Department of Transportation.* Technical Manager. Responsible for project coordination; administering QA/QC controls that ensured quality project deliverables; reviewing detailed project work plans and inspection schedules; coordinating with Michael Baker's bridge inspection teams; monitoring project status; reporting critical findings or urgent issues affecting public safety to the client; performing QA/QC reviews of inspection and load rating information in the OSARC AssetWise System.

05/21 – 08/21	**OSARC 2021 QA/QC Inspection Reports.** *Mississippi Department of Transportation.* Project Manager. Responsible for project coordination; developing QA/QC controls that ensured quality project deliverables; monitoring project status; performing QA/QC reviews of inspection reports in the OSARC AssetWise System.
11/21 – 03/22	**OSARC2021 On-Call Bridge Reinspection.** *Mississippi Department of Transportation.* Technical Manager. Responsible for project coordination; administering QA/QC controls that ensured quality project deliverables; performing bridge re-inspection, load rating reviews, and reporting services; monitoring project status; performing QA/QC reviews of re-inspection and load rating information in the OSARC AssetWise System.
08/20 – 07/21	**OSARC 2020 TIMBER Bridge Inspection.** *Mississippi Department of Transportation.* Technical Manager. Responsible for project coordination; administering QA/QC controls that ensured quality project deliverables; reviewing detailed project work plans and inspection schedules; coordinating with Michael Baker's bridge inspection teams; monitoring project status; reporting critical findings or urgent issues affecting public safety to the client; performing QA/QC reviews of inspection and load rating information in the OSARC AssetWise System.
09/20 – 06/21	**OSARC 2020 COMPLEX Bridge Inspections.** *Mississippi Department of Transportation.* Technical Manager. Responsible for project coordination; administering QA/QC controls that ensured quality project deliverables; reviewing detailed project work plans and inspection schedules; coordinating with Michael Baker's bridge inspection teams; monitoring project status; reporting critical findings or urgent issues affecting public safety to the client; performing QA/QC reviews of inspection and load rating information in the OSARC AssetWise System.
08/20 – 07/22	**OSARC 2019 COMPLEX Bridge Inspection.** *Mississippi Department of Transportation.* Technical Manager. Responsible for project coordination; administering QA/QC controls that ensured quality project deliverables; reviewing detailed project work plans and inspection schedules; coordinating with Michael Baker's bridge inspection teams; monitoring project status; reporting critical findings or urgent issues affecting public safety to the client; performing QA/QC reviews of inspection and load rating information in the OSARC AssetWise System.

16. Staff Experience:				
Firm employed by:	Michael Baker International, Inc.			
Name	**Paul McGuinness, PE**		Years of relevant experience with this employer	24
Title	Vice President		Years of relevant experience with other employer(s)	14
Degree(s) / Years / Specialization			B.S.C.E./1986/Civil Engineering - Structural Engineering	
Active registration number/state/expiration date			Arkansas PE 20965 / Arkansas / December 2025; Connecticut PE PEN.0017040 / Connecticut / January 2025 Massachusetts PE 55572 / June 2026; Rhode Island PE 13161/ Rhode Island / June 2025; FHWA-National Certified Tunnel Inspector 130124 / Nationwide / June 2026; FHWA NBIS Safety Inspect of In-Service Brdgs Trng 130055 / Nationwide / March 2027; NHI Fracture Critical Inspection Certification 130078 / Nationwide / No Exp.	
Year registered	PE – 1991 FHWA NHI – 1995	Discipline	Structural Engineer	
Contract role(s) / brief description of responsibilities			Technical Advisor	

Mr. McGuinness' main responsibilities include financial, operations, forecasting and engineering management for the New England region. He has been an active FHWA/NHI Bridge and Tunnel Inspection Course Instructor since 2001 and serves as Michael Baker's National Lead for bridge and tunnel inspection services. He currently serves as QA Manager for the New England Region and QA/QC Engineer or Technical Advisor for multiple DOT bridge inspection contracts throughout the country. Former roles and responsibilities include Program, Department, and Project Manager for New England bridge contracts totaling over $50 million in fee. He also has experience as a Proposal Manager, Bridge Inspection Team Leader, Structural Engineer, and Construction Inspector. In the past 5 years, Paul has assisted FHWA and more than 6 bridge owners with updating their bridge inspection manuals and procedures to keep up with the latest NBIS requirements including SNBI coding. He has experience with multiple Bridge Management Systems, including Assetwise.

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).
07/10 – 01/22	***Inspections and Load Ratings of Highway Bridges and Tunnels, Statewide, Connecticut.*** *Connecticut DOT (CTDOT).* QA/QC Engineer, Technical Advisor. Responsible for verifying that quality control procedures were in place and also performed field visits to ensure proper safety and inspection procedures were followed. He verified that quality control procedures were in place and also performed field visits to ensure proper safety and inspection procedures were followed. Michael Baker is performing over 1,000 biennial bridge safety inspections with element-level reporting throughout the state of Connecticut in accordance with NBIS and AASHTO's Bridge Manual for Element Inspection.
08/09 – 03/21	***Bridge Safety Inspection and Load-Rating Services, Statewide, Rhode Island.*** *Rhode Island DOT (RIDOT).* QA/QC Engineer, Technical Advisor, Manual Author. Responsible for QA/QC review and technical oversight for inspection and LRFR load rating completed for the project. He performed review of all Critical Finding reporting as well as special investigations related to problematic bridge situations. He was also the main author for RIDOT's Bridge Inspection Manual. Michael Baker performed inspection services for bridges throughout Rhode Island as part of the Statewide Bridge Inspection Services Master Price Agreement project. Michael Baker performed inspections on more than 800 bridges and load ratings on more than 300. Additionally, it co-authored the RIDOT Bridge Inspection Manual in partnership with RIDOT bridge engineering staff and has developed repair sketches for emergency repairs of deficiencies discovered during its inspections.
07/19-09-19	***Metropolitan Transportation Authority Bronx-Whitestone Bridge Inspection, New York City, NY.*** *The Thorton-Tomasetti Group, Inc.* Project Manager. Responsible for Michael Baker's SPRAT inspection of The Bronx-Whitestone suspension bridge following very stringent technical and safety requirements. Michael

	Baker provided bridge inspection services for the Bronx-Whitestone Bridge, which included inspection of the 12 suspender hangers spread throughout the structure. The 3,700-foot-long Bronx-Whitestone Bridge is a suspension bridge carrying six lanes of Interstate 678 over the East River.
06/23 – 06/24	**Bridge Inspection Manual Update, Iowa.** *IowaDOT*. Project Manager and Primary Author. Responsible for managing all technical aspects of review and critique of Iowa's 2015 Bridge Inspection Manual and updating it to meet the new 2022 NBIS Rule and SNBI coding using their SIIMS BMS program.
06/06 – 06/12	***FHWA Comprehensive Bridge Safety Inspection Training Program and Bridge Inspection Reference Manual, Nationwide.*** *Federal Highway Administration.* Instructor, QC. Responsible for teaching bridge inspection training courses to thousands bridge inspectors since 2001. Also performed QC review for sections of updated 2020 BIRM Manual. Michael Baker updated the popular FHWA "Bridge Inspection Training Manual" (BITM) 90 and NHI Course No. 130055 "Safety Inspection of In-Service Bridges" as part of an IDIQ contract. Under a separate task order award, Michael Baker was charged to deliver NHI Course Number 130053A – Bridge Inspection Refresher Training, NHI Course Number 130054A – Engineering Concepts for Bridge Inspectors, NHI Course Number 130055A – Safety Inspection of In-Service Bridges, and NHI Course Number 130078 - Fracture Critical Inspection Techniques for Steel Bridges.
09/23 – 09/28	***Biennial Safety Inspection of Highway Bridges, Statewide, Massachusetts.*** *Massachusetts DOT (MassDOT).* QA/QC Engineer, Technical Advisor. Responsible for QC reviews. Michael Baker performed an inspection of bridge structures statewide in accordance with the latest editions of designated MassHighway references. All bridge reports were prepared and submitted in MassHighway's 4D program. The project typically consisted of four bridges a month over a course of 30 months.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Daniel Thornhill, PE**		Years of relevant experience with this employer	4	
Title	Office Executive and Associate Vice President		Years of relevant experience with other employer(s)	23	
Degree(s) / Years / Specialization			BS / 1997 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer - 32367 / Louisiana / September 2024; Traffic Control Technician / LA State Specific / April 2026; Traffic Control Supervisor / LA State Specific / April 2026		
Year registered		Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			**MPR # 1 and #2: Principal-In-Charge, Roadway Design**		

Mr. Thornhill will apply 26 years of transportation engineering, design, and construction experience to successfully manage this project, allocating necessary resources to ensure designs are developed on time and within budget. Mr. Thornhill specializes in various roadway design, corridor/traffic operation concept analysis, bridge design, hydraulics design, and subsurface drainage design projects and has delivered more than 140 roundabout layouts throughout his career. He has partnered successfully with DOTD for over 15 years and is highly familiar with your standards and specifications for road, bridge, traffic, and drainage design work.

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).
07/22 – Ongoing	**Entrance Road and Gate Complex, Barksdale Air Force Base, Bossier City, Louisiana.** *NAVFAC Southeast.* Senior Engineer. Served as project manager overseeing the CLIN 2 portion of the entrance road project that falls under DOTD jurisdiction. Additional responsibilities included overseeing the development of horizontal and vertical alignments along with development of construction plans for RQ Construction. Michael Baker provided full plans and specifications as subconsultant and the designer of record for the construction of a new U.S. Air Force entry control facility (ECF) at the Barksdale Air Force Base (AFB) in Bossier City, Louisiana. The new ECF will serve as a primary gate and will provide a point of entry for personnel, visitors, and deliveries to Barksdale AFB directly from Interstate 20 and Interstate 220. These proposed upgrades will provide the antiterrorism force protection and physical security measures required for current security and terrorist threats. The ECF will be located on the northern side of Barksdale AFB and will connect the base to a new state highway constructed by the Louisiana Department of Transportation and Development.
07/22 – Ongoing	**New Orleans Rail Gateway - Avondale PEL Study, Jefferson Parish, Louisiana.** *LADOTD.* Senior Engineer. Providing QA/QC review of the alignments and corridor improvements that were being developed by Michael Baker staff in the Baton Rouge office. Project included corridor screening of several different alternatives to provide access over the railroad tracks vs. at-grade railroad crossings. Additional responsibilities included making sure the design team were meeting DOTD design guidelines while considering improvements the Parish would like incorporated into the corridor improvements. Michael Baker is providing operations, engineering, and environmental studies and preparing a PEL study to evaluate the consolidation, road-over-rail grade separation, or closure of four at-grade highway-rail crossings (Live Oak Boulevard, Willswood Lane, George Street, and Avondale-Garden Road). For the project, Michael Baker is performing project management, solicitation of views, secondary-source environmental resources inventory, GIS mapping, freight rail operations forecasting and crossing occupancy time analyses, roadway traffic and crash analyses, purpose and need, roadway/bridge conceptual design, cost estimates, alternatives analyses, stakeholder and agency coordination, and public outreach.

03/21 – Ongoing	**Pearl River Truss Replacement, Pearl River, Louisiana.** *Norfolk Southern Corporation.* Senior Engineer. Worked with CE&I Field Engineer regarding allocations and/or re-allocation of resources for the project's duration. Michael Baker was part of the project team to replace the Lindbergh Norfolk Southern Bridge crossing the East Pearl River in Louisiana. Tasks included traffic maintenance, protection of environmental areas, and lead-based coatings demolition.
11/21 – Ongoing	**US 371: KCS Railroad Overpass HBI, Webster Parish, Louisiana.** *LADOTD.* Principal-In-Charge. Initially served as Project Manager but is currently serving as principal-in-charge. Responsible for coordination with DOTD PM and DOTD contract services on contract management. Will also serve as QA/QC lead for the design team for each milestone submittal. Responsible for designing and developing construction plans to replace 3 bridges at two locations along US 371. Also responsible for horizontal and vertical geometry, intersection improvements, and setting the grade for the bridges. The first location is the replacement of a 3-span bridge over KCS Railroad in Sibley, LA. The project entails the development of a new bridge alignment following DOTD and KCS Railroad requirements, along with modifications of the existing road to accommodate the new bridge's vertical alignment. The second location is the replacement of parallel bridges along US 371 at the Minden/I-20 interchange. Bridges will be replaced in phased construction to maintain traffic. Two new 3-span bridges will be constructed over the KCS railroad, meeting the DOTD and KCS design requirements required at the Sibley bridge site.
10/22 – Ongoing	**Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program, District 07, Louisiana.** LA *DOTD, District 07.* Principal-in-Charge. Responsible for overseeing the development of a Preliminary Bridge Matrix and Final Structure Recommendation for the off-system bridge program for five parishes in District 07. The project is broken into the Initial Phase and the Final Design Phase. Matrix developments were part of the initial phase that started in October 2022 and was finished and submitted in December 2022. District 07 was given $30.3 million dollars with allocations for each parish. Also responsible for meeting with each Parish engineer/ Policy Jury to determine priority for which bridges needed replacement. The project is currently in the Final Design Phase for the replacement of 12 Bridges, and the duties include contract management, overseeing the design of the roadway approaches, approving the new bridge grades, and selecting new bridge structures.
04/22 – Ongoing	**LA 30: EBR PL – I-10, East Baton Rouge, Iberville, and Ascension Parishes, Louisiana.** *DOTD Headquarters.* Project Manager & Principal-in-Charge. Responsible for overseeing the Environmental Assessment (EA) of the widening of LA 30 from a 2-lane roadway to a 4-lane roadway. Project limits are roughly 14 miles from the East Baton Rouge/Iberville Parish line to the terminus at the I-10 interchange. The project is currently in Part 1 of the EA, which mainly focuses on traffic count/study/analysis, early environmental field screening, initial geometric improvements at five intersections, SUE services, and developing existing hydraulic flows for six bridge/culvert structures. Additional responsibilities include oversight of existing alignments along with existing right-of-way lines. Further coordination is required with DOTD's new Mississippi River Bridge Environmental ongoing project. A recent addition of 7 miles to the project limits has been added to the project to include LA 30 from Brightside/Lee Drive Intersection to the East Baton Rouge/Iberville Parish line.
08/12 – 01/18	**Juban Road (LA 1026) Widening (I-12 to US 190), Livingston Parish, Louisiana.** *LA DOTD.* Project Manager and Lead Design Engineer. Responsible for the development of construction plans for the widening of Juban Road from a 2-lane roadway to a 4-lane boulevard from just north of the I-12 Interchange to US 190. Improvements included three multi-lane roundabouts along Juban Road while including side paths on both sides of Juban Road to meet the DOTD complete. streets initiative. Access Management was a priority along this route; therefore, the median was reduced to 6' to 8' to discourage left-turn movements and make all driveways right-in/right-out while utilizing the roundabouts for U-turn movements. The first roundabout was located at future driveway number 5 for the Juban Crossing Development. The second roundabout was located midway along the project, with the addition of service roads to encourage Livingston Parish to extend the project to reduce driveways along Juban Road during future development. The third roundabout was located at the Juban Road at US 190 intersection.

16. Staff Experience:				
Firm employed by:	Michael Baker International, Inc.			
Name	**Jade Rung, PE, PMP**		Years of relevant experience with this employer	3
Title	Regional Practice Lead – Bridge and Transportation		Years of relevant experience with other employer(s)	26
Degree(s) / Years / Specialization			MBA / 2024 / Executive Development, General Management BS / 1995 / Civil Engineering	
Active registration number / state / expiration date			Professional Engineer - 29081 / Louisiana / September 2024 Project Management Professional (PMP) - 1284298 / Nationwide / July 2027	
Year registered	PE – 2000 PMP - 2009	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			**MPR#2: Client Liaison**	

Mr. Rung is a professional engineer experienced in all delivery phases for multi-million-dollar capital projects. He has a proven history of domestic & international business development and program/project management for commercial, municipal, industrial, marine, and heavy civil construction. He has substantial experience in design and construction management, including the delivery in all phases of the project life cycle including, but not limited to, programming, funding acquisition, design, bid solicitation, permitting, cost estimating, procurement, general contracting, construction management, closeout, and asset management. Mr. Rung has extensive communication and management skills, including scheduling, cost management, construction coordination, scope compliance, issues/change management, conflict resolution, standardized status reporting, and community outreach.

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).
06/22 – 05/23	**Parish Comprehensive Drainage Plan, Covington, Louisiana.** *St. Tammany Parish.* Business Development Lead. Responsible for project acquisition, stakeholder engagement; client management, public outreach coordination, and local representation. Michael Baker conducted a comprehensive drainage plan for the Saint Tammany Parish located on the north shore of Lake Pontchartrain, Louisiana. The plan evaluated the existing state of drainage in the parish, including flood risk, water quality, and development guidelines, recommended capital projects, and potential policy changes that would lead to reduced flood damage and increased safety. The Michael Baker team provided data gathering efforts, ranked a list of problem areas, and provided four in-person public and stakeholder outreach throughout Phase I of this project.
2021 – Ongoing	**H.013284 Mississippi River Bridge South GBR: LA 1 to LA 30 Connector, Baton Rouge, Louisiana.** *LA DOTD.* Executive Sponsor for Bridge Services. Mr. Rung provided business development and executive contract development for the bridge design/review services for the Enhanced Planning Study for the new Mississippi River bridge to alleviate traffic congestion in the Capital Region. The five-parish Baton Rouge Metropolitan Area includes Ascension, East Baton Rouge, Iberville, Livingston, and West Baton Rouge Parishes. The new "south" Mississippi River Bridge and approaches will be a conventional highway/expressway facility connecting to LA 1 on the west side of the Mississippi River and to LA 30 (and widening of LA 30) on the east side of the Mississippi River. It is planned that the new crossing will be funded in part through the collection of tolls. Three alternatives have been identified from the Enhanced Planning Study and will be analyzed further in Part 2 of the project, which consists of preparing the NEPA document to identify a preferred alternative.
01/16 – 01/17	**Ocean Cay MSC Marine Reserve, Ocean Cay, Bahamas.** *MSC Cruises.* Project Development Manager. Facilitated the scope development and coordination for the Design-Build project; investigated scope alternatives, provided detail adjustments and facilitated value-engineering options for the construction of the project; coordinated scope and bid evaluations for the dredging, sitework, port improvements, building construction, and utility systems for the island development. The

	project work includes dredging, demolition, clearing and grubbing, mass grading, beach grading and re-nourishment, bulkhead for cruise ship berth and marina basin, breasting and mooring dolphins, CIP reinforced concrete, rip rap, landscape, hardscape, buildings, utilities, RO plant, power plant (generators), wastewater treatment plant, fuel storage, water intake wells, and deep injection wells.
01/01 – 01/03	**Marine Corps Reserve Training Center, Lafayette, Louisiana.** *Department of the Navy.* Project Manager. Provided contract negotiation and management of all subcontractors for every trade on the project; provided estimating, negotiating, contracting, and change management services for the Design-Build project.
02/06 – 10/06	**Louisiana Department of Transportation and Development District 02 Office Hurricane Repairs, New Orleans, Louisiana.** *LA DOTD.* General Contractor. Provided general contracting, permitting, subcontracting, scheduling, coordination and close-out for the repairs to the existing office building.
07/10 – 09/11	**Ruskin Dam Rehabilitation.** *British Columbia Hydro Power, Vancouver, Canada.* Project Controls Manager/Deputy Project Manager. Provided management for the project controls team to provide all data control for the project; coordinated internal project tasks and responsibilities; developed cost-loaded project schedule including maintenance and publication; facilitated internal and external project communications; coordinated all project scopes, schedules, funding, and budgets for accurate and timely reporting during all phases of the project.
09/11 – 07/12	**Union Passenger Terminal to Canal Street Rail Expansion, City of New Orleans, New Orleans, Louisiana.** *Regional Transit Authority.* Project Executive. Facilitated communications for the project between the internal project management team, City of New Orleans, project designer, and general contractor; provided updates on the progress and schedule look-ahead for the project progress.
03/11 – 07/12	**Sewer System Evaluation and Rehabilitation Program, City of New Orleans, New Orleans, Louisiana.** *Sewerage and Water Board of New Orleans.* Project Executive. Facilitated communications for the project between the internal project management team, City of New Orleans, project designer, and general contractor; provided updates on the progress and schedule look-ahead for the project progress.
11/14 – 01/16	**Hurricane and Storm Damage Risk Reduction System (HSDRRS), Mississippi River Levee (1.2A & 2.2) Flood Protection.** *US Army Corps of Engineers.* Project Executive. Provided executive support for the project delivery team; local communications with State, Parish, and City officials; provide oversight for the general construction activities.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Phillip Walker, PE**		Years of relevant experience with this employer	6	
Title	Regional Practice Lead- Bridges		Years of relevant experience with other employer(s)	27	
Degree(s) / Years / Specialization			MSCE / 1991 / Structural Engineering BSCE / 1990 / Structural Engineering		
Active registration number / state / expiration date			Professional Engineer - 0046394 / Louisiana / September 2024		
Year registered	2022	Discipline	Structural Engineering		
Contract role(s) / brief description of responsibilities			**MPR #3: Bridge Repair**		

Mr. Walker's experience focuses on the preliminary evaluation, design, and construction of long span bridge structures with a specialty in segmental concrete bridges. He has either managed, developed concepts for, peer reviewed, load rated, or been responsible for the design of bridges ranging from short span top-down constructed structures to bridges crossing navigational channels with up to 650-foot spans. He has been responsible for structures ranging from segmental concrete bridges to either curved steel girder or steel truss structures. He is currently supporting the Florida DOT through design and construction on the Selmon Extension–a precast segmental concrete viaduct containing multiple extradosed towers. He is an instructor at USF for concrete bridges, instructor for the NHI Strut and Tie Concrete course, and was one of the responsible engineers for two projects winning national awards–the Marc Basnight Bridge in NC and the St. Croix River crossing in Minnesota.

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).
11/17 – 11/21	**10th & 11th Avenue South Booker Creek Bridge, Pinellas County, Florida.** *Florida Department of Transportation - District 7.* QA/QC. Responsible for plan and calculation review. Michael Baker prepared a complete set of construction contract documents including plans, specifications, supporting engineering analysis, calculations, and other technical documents for improvements to the 10th & 11th Avenue South Booker Creek Bridge. The purpose was to design the most economical approach to repair the existing two-cell, cast-in-place concrete box culvert under 10th Avenue South from its northwest end at Booker Creek to the intersection with 5th Street South (approximately 382 feet), as well as southward approximately 150 feet under 5th Street South, and to repair the existing three-to-five-cell portion of the same culvert under 5th Street South and 11th Avenue South. Improvements incidental to the culvert replacement work included road and sidewalk reconstruction and Americans with Disabilities Act (ADA) curb ramp upgrades.
09/16 – 01/22	**Inspection of Bridges and Overhead Sign Structures 2016-2021, Statewide, Connecticut.** *Connecticut Department of Transportation.* QA/QC. Provided review of all calculations and documents prepared. The evaluations required inclusion of existing conditions which impacted rating calculations. The superstructure of each bridge was comprised of single cell, pre-cast, post-tensioned, box girders with spans of varying length. Segmental boxes are constant depth (11 feet, 8 inches) and constant width (74 feet, 8 inches for Bridge #06200A and 83 feet, 9 inches for Bridge #06200B). Each pre-cast segment is post-tensioned transversely and incorporates diagonal struts between the central top slab longitudinal stiffening rib and strut blocks at the bottom slab/web intersection. Under its sixth consecutive inspection contract, Michael Baker evaluated and prepared reports for bridges, including the Baldwin Twin Bridges, Tomlinson Bridge, Goldstar Northbound Bridge, and the Goldstar Southbound Bridge, and sign structures throughout the state of Connecticut. Michael Baker's services included compliance with state and federal highway safety standards and responding to emergency evaluation and repair needs. Since 1999, Michael Baker has inspected more than 3,500 Connecticut bridges, more than 100 of which were cross active rail lines. Michael Baker also inspected more than 1,700 overhead sign structures located on interstates and state highways.

08/20 – 03/22	**ALDOT Dauphin Island (#8479), Mobile County, Alabama.** *Alabama Department of Transportation.* Senior Engineer and QA/QC. Responsible for senior engineering and quality control. Served as the quality control reviewer for load rating of the segmental concrete box constructed units of the 17,814-foot-long bridge crossing an intracoastal waterway to Dauphin Island, Alabama. Work effort consisted of load rating four units constructed using the span-by-span erection technique as well as a single unit constructed using the balanced cantilever erection technique that contains a central 400-foot span across the navigational channel. At the owner's request, ratings were developed in accordance with LRFR Part B with modifications to reflect evaluation of a segmentally erected concrete superstructure. Operating ratings were developed for HS20, Military Loading, as well as several ALDOT posting vehicles. Although the bridge was in good condition, further refinement of evaluations was required in specific areas at the owner's request.
05/19 – 12/23	**I-40/Mississippi River Inspection, West Memphis, Arkansas and, Memphis, Tennessee.** *Arkansas Department of Transportation.* QA/QC. Served as the quality control reviewer for the system redundancy evaluations for the twin span 1800-feet arched truss bridge over the Mississippi River. The work consisted of determining whether the structure could support an acceptable level of live load after a hypothetical member failure. Using both linear and non-linear analysis of 3D models of the bridge, the redundant capacity of the system was determined based on the capacity of the faulted system. The end conclusions of the report allow the owner to designate specific members as System Redundant Members (SRM). These SRM members are designed and fabricated as Fracture Critical Members (FCM) but do not need to be considered as FCM members for FCM inspection requirements. This allows the owner to tailor the inspection procedure requirements for the truss, reflecting the redundancy of its component members in the fracture critical system. Michael Baker provided engineering services for inspecting the I-40 Bridge over the Mississippi River. Michael Baker dedicated a strong team of experienced bridge engineers and inspectors to guarantee the highest quality of services to meet the client's goals for this important undertaking of inspecting one of the most significant and heavily traveled bridges in Arkansas. Serving as the prime consultant, Michael Baker provided pre-inspection planning and coordination, field inspection, and an inspection report.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Nathaniel Joseph, PE**		Years of relevant experience with this employer	9	
Title	Civil Engineer		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS / 2015 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer - 137387 / Texas / December 2024 FHWA-NHI-130055 / North Dakota / No expiration date		
Year registered	PE – 2020 FHWA - 2021	Discipline	Civil		
Contract role(s) / brief description of responsibilities			**MPR #4: Certified Bridge Inspector**		
Mr. Joseph is a Professional Engineer qualified as a bridge engineer and Routine Inspection Team Leader. He created tools and applications that optimize and modernize his team's work in bridge inspection and design. He is currently performing project management and Team Leader roles in bridge inspection.					
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).				
09/17 – 08/20	**OSARC Statewide Bridge Inspection, Statewide, Mississippi.** *Mississippi Department of Transportation*. Engineering Technician. Responsible for assisting and QA/QC of load rating calculations for Mississippi timber bridges. Michael Baker provided inspection and engineering services under multiple contracts for the National Bridge Inventory bridge safety inspections, load rating, and reporting of bridges with varying superstructure types. Michael Baker's services included project management, development of inspection plans, routine and in-depth condition and appraisal inspections, load ratings, and preparing inspection and load-rating reports. The bridges were located on local road systems owned and maintained by various Mississippi counties, cities, and towns. In all, Michael Baker inspected 1,322 bridges over nine years, from FY 2012 to FY 2020.				
02/19 – 11/19	**Statewide Bridge Inspections, Statewide, Texas.** *Texas Department of Transportation*. Engineering Technician. Responsible for assisting the Team Leader with field inspections, inputting structure information in Inspecttech, and completing inspection forms for submittals. Used Visual Basic to create tools that expedite completion by making inspection forms more user-friendly, consolidated workspace to improve collaboration, and worked with the inspection team to streamline the completion of submittals. Trained new inspection assistants about collecting field data and creating Inspecttech reports. Performed QA/QC of reports and produced load rating calculations of select bridges. Michael Baker provided engineering services for inspecting bridges owned and maintained by the Texas Department of Transportation. The contract included the initial and routine inspection of 254 bridges in multiple counties within the Beaumont District. Bridge types entailed prestressed concrete beam or girder bridges, reinforced concrete T-beam bridges, reinforced concrete slab bridges, single or numerous box culverts, and steel multi-girder or -beam bridges. For the project, Michael Baker performed structural inspections and load ratings, identified and documented structural deficiencies, and provided traffic control plans where necessary.				
09/11 – 10/19	**Complex and Fracture Critical Bridge Inspections, Statewide, Mississippi.** *MDOT/State Aid Road Construction*. Engineering Technician. Responsible for performing routine and fracture critical inspections on Mississippi bridges and creating Inspecttech inspection reports. Michael Baker provided engineering services under multiple contracts for the inspection of locally-owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services included project management; inspection plan development; in-depth condition, appraisal, and fracture-critical inspections; load ratings; and				

	preparation of inspection and load-rating reports. The number of bridges inspected in the multiple contracts were: 1) FY 2018 & 2019 – 166 bridges; 2) FY 2016 & 2017 – 107 bridges; 3) FY 2014 & 2015 – 101 bridges; and 4) FY 2012 & 2013 – 194 bridges.
09/17 – 12/17	**Emergency Visual Bridge Inspections, Gonzales County, Texas.** *Texas Department of Transportation*. Civil Associate. Responsible for using knowledge of Texas Department of Transportation (TxDOT) Bridge Inspection protocol and Visual Basic to consolidate inspection teams' data and create inspection reports and submittals for the client. Michael Baker provided a quick visual assessment of 200 structures on the state highway system (Interstate, U.S., State Highway, Farm to Market) in three days using three two-person teams. The work aimed to assess any structural damage/misalignment, drift accumulation quickly, scour of the channel bed and banks, or erosion of the approach roadway embankments. As needed, Michael Baker measured the channel cross-section relative to the bridge for comparison to records maintained in the routine bridge inspection records.
02/21 – Ongoing	**Ancillary Traffic Structures Inspections, Statewide, Texas.** *Texas Department of Transportation*. Inspector. Responsible for performing safety inspections of ancillary light pole structures. Checked light modules, base plates, foundations, and other relevant parts of the structures for defects on behalf of the client. Michael Baker is providing engineering services to develop a statewide program for the inventory and inspection of ancillary traffic structures, including high mast illumination poles, overhead sign structures, traffic signal mast arm poles, intelligent transportation system (ITS) poles, and other roadway assets. As part of the project, Michael Baker is performing mobile LiDAR survey and developing a geographic information systems (GIS) database.
02/15 – 09/17	**Bridge Inspection Services, Texas.** *Texas Department of Transportation*. Civil Associate. Responsibilities included assisting the Team Leader with field inspections, inputting structure information in Pontex, and completing inspection forms for submittals. Used Visual Basic to create tools that expedite completion by making inspection forms more user-friendly, consolidate workspace to improve collaboration, and worked with the inspection team to streamline the completion of submittals. Under a two-year indefinite-delivery contract (IDC), Michael Baker provided inspection of bridge structures in various counties. Services included routine safety inspections of bridge conditions aided by routine inspection tools and means of access, photo-documentation, evaluation of scour, load rating, and evaluation of features such as alignment, waterway adequacy, and approach guardrails. Bridge types included prestressed, steel, reinforced concrete girders, slab girders, trusses, and metal and concrete culverts in urban and remote rural locations.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Chris Princiotta, CBI, SPRAT II**		Years of relevant experience with this employer	9	
Title	Inspector – Construction		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS / 2018 / Construction Engineering Technology		
Active registration number / state / expiration date			FHWA-NHI-130053 / Mississippi / September 2027 FHWA-NHI-130055 / Mississippi / No expiration date FHWA-NHI-130078 / Mississippi / January 2025 Society of Professional Rope Access Technician II (SPRAT) / Colorado / February 2026 Certified Bridge Inspector		
Year registered	FHWA – 2022; 2015; 2020 SPRAT - 2023	Discipline	Bridge Inspection		
Contract role(s) / brief description of responsibilities			**MPR #4: Certified Bridge Inspector**		
Mr. Princiotta is a construction inspector specializing in bridges, minor structures, and utility operations. He has experience inspecting all types of in-service bridges, with an emphasis on fracture-critical bridges. He is certified in the use of rope access as an inspection method.					
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).				
10/18 – 09/19	**U.S. 84 Bridge Inspection, Natchez, Mississippi.** *Mississippi Department of Transportation.* Bridge Inspector. Responsible for assisting Team Leader with routine inspection of two Mississippi River Truss Bridges in Natchez, Mississippi for MDOT. Michael Baker used a hybrid method of rope access and equipment (man-lifts, under-bridge inspection) to perform a routine and fracture critical inspection of the U.S. 84 truss bridges over the Mississippi River. Michael Baker's services included a full inspection of the bridge, traffic control, a hydrographic survey, and documentation of the deficiencies and report preparation in accordance with the latest AASHTO Manual for Bridge Evaluation.				
09/11 – 10/19	**Complex and Fracture Critical Bridge Inspections, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Bridge Inspector. Responsible for assisting the Team Leader with the inspection of fracture-critical bridges, collecting dimensions and inspection information. Michael Baker provided engineering services under multiple contracts for inspecting locally-owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services included project management, inspection plan development, in-depth condition, appraisal, and fracture-critical inspections, load ratings, and preparation of inspection and load-rating reports. The number of bridges inspected in the multiple contracts were: 1) FY 2018 & 2019 – 166 bridges; 2) FY 2016 & 2017 – 107 bridges; 3) FY 2014 & 2015 – 101 bridges; and 4) FY 2012 & 2013 – 194 bridges.				
09/17 – 08/20	**OSARC Statewide Bridge Inspection, Statewide, Mississippi.** *Mississippi Department of Transportation.* Bridge Inspector. Responsible for assisting Team Leader with inspection of bridges, collecting dimensions and inspection information. Michael Baker provided inspection and engineering services under multiple contracts for the National Bridge Inventory bridge safety inspections, load rating, and reporting of bridges with varying superstructure types. Michael Baker's services included project management, inspection plan development, routine and in-depth condition and appraisal inspections, load ratings, and the preparation of inspection and load-rating reports. The bridges were located on local road systems owned and maintained by various counties, cities, and towns throughout Mississippi. In all, Michael Baker inspected 1,322 bridges over nine years, from FY 2012 to FY 2020.				

16. Staff Experience:				
Firm employed by:	Michael Baker International, Inc.			
Name	**Nick Riha, PE, PMP**		Years of relevant experience with this employer	3
Title	Project Manager		Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization			MS / 2012 / Civil Engineering - Structural BS / 2009 / Civil Engineering - Structural	
Active registration number / state / expiration date			Professional Engineer - 139231 / Texas / September 2024 PMP - 4634533 / Nationwide / December 2025 FHWA-NHI-130053 / Illinois / February 2025 FHWA-NHI-130055 / Illinois / No expiration date	
Year registered	PE - 2020 PMP - 2016	Discipline	Structural	
Contract role(s) / brief description of responsibilities			**MPR 4:** Certified Bridge Inspector	

Mr. Riha has extensive professional experience including two years of civil design, two years of construction management, and 7-plus years of experience in structural engineering. His design experience includes single span prestressed concrete bridges, cast-in place and MSE retaining walls, noise abatement walls, drainage structures, overhead sign structures and truss systems, building foundations, drilled shaft foundation systems, continuously reinforced pavement, toll plaza islands and layouts, adjacent roadway barriers and moment slabs, as well as highway geometry and pavement requirements. As mentioned, beyond the aforementioned design experience, he has ample involvement with Phase I, which includes Environmental Impact Studies; as well as Phase III, which includes construction inspection of structures and inspection of roadway reconstruction.

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).
02/21 – Ongoing	**Ancillary Traffic Structures Inspections, Statewide, Texas.** *Texas Department of Transportation*. Structural Engineer. Responsible for leading and coordinating the High Mast Illumination Poles inspection and preparing associated documentation. Michael Baker is providing engineering services to develop a statewide program for the inventory and inspection of ancillary traffic structures, including high mast illumination poles, overhead sign structures, traffic signal mast arm poles, ITS poles, and other roadway assets. As part of the project, Michael Baker is performing mobile LiDAR survey and developing a GIS database.
06/19 – Ongoing	**I-2/I-69C Interchange and I-2 Reconstruction Design-Build, Pharr, McAllen, and San Juan, Texas.** *Texas Department of Transportation*. Structural Engineer. Responsible as the engineer of record for multiple requests for information and assisting with Michael Baker's construction services support scope. Provided structural engineering analysis and design review for bent caps, beams, columns, and foundations, as well as specification and constructability review. Michael Baker provided design and engineering services for this major transportation reconstruction project for 7.8 miles of operational and safety improvements along I-2 in a rural-to-urban segment of the county. For this project, it developed roadway designs and alternative concepts as well as maintenance and protection of traffic (MOT) plans for efficiently redirecting traffic. Its roadway, bridge, and MOT teams collaborated using 3D models to ensure designs met requirements set by the Texas Department of Transportation (TxDOT) for construction clearance, profile grades, design speeds, bridge removals, and work-zone traffic barrier clearances. Michael Baker's unique solution for construction allowed the contractor to construct three out of the four direct connectors using minimal closures. By eliminating these restrictions, the contractor could offer a lower bid, reducing costs and saving money.

10/21 – 07/22	**Houston Metroplex Statewide Inventory and Inspection, Houston and Beaumont Districts, Texas.** *Texas Department of Transportation*. Project Manager. Responsibilities included project management and coordination with Texas Department of Transportation and two subconsultants, and team leader inspection services. Provided inspection in the southeast Texas region and worked on documentation, analysis tasks, and quality management. Michael Baker provided engineering services for the development of a statewide program for the inventory and inspection of ancillary traffic structures, concentrating on high mast illumination poles. As part of the project, Michael Baker performed mobile light detection and ranging survey and developing a geographic information systems database. Additionally, Michael Baker performed hands-on inspection services and coordinated with the client to refine the statewide inspection manual and asset management guidelines. This project primarily served the southeast Texas region including Houston and Beaumont Districts.
12/17 – 10/22	**Structural Inspections and Asset Management Services, Dallas/Fort Worth International Airport (DFW), Texas.** *Dallas/Fort Worth International Airport*. Structural Engineer. Responsible for quality control and assurance review of documentation. Michael Baker is providing design and engineering services for structural inspections to maintain a variety of transportation and building assets at the Dallas/Fort Worth International Airport. Since 2006, Michael Baker has provided structural inspection services on the airport's infrastructure, including landside and airside bridges, multi-mile elevated SkyLink bridge structures, taxiway bridges, drainage structures, sound walls, retaining walls, runway and taxiway pavement, ancillary structures (sign structures, high mast illumination poles, and traffic sign structures), parking garages, and various building structures. For this contract, Michael Baker performs data collection and analysis, topographic mapping, surveying, and forensic and geotechnical investigations.
09/22 – 02/23	**Fracture Critical Inspection Services WA04, Paris, Tyler, and San Antonio, Texas.** *Texas Department of Transportation*. Structural Engineer. Coordinated and performed bridge inspection techniques on various bridges throughout Dallas, Texas and surrounding areas. Tasks included fracture critical inspection and documentation to assess the condition of various bridge components and types. Michael Baker is providing fracture critical inspection services in the districts of Paris, Tyler, and San Antonio, Texas.
01/23 – 01/24	**I-35 Dart Bridge Assessment, Storey Road, Dallas, Texas.** *Dallas Area Rapid Transit.* Project Manager. Responsible for reviewing and implementing DART policies and procedures for bridge structures. Provided coordination with DART and supply vendors to perform the evaluation safely and without significant public impact. Met with inspection and design teams to help prepare and finalize the assessment report and cost estimate. Continually monitored the project status as it pertains to schedule and budget at overall and task levels. Michael Baker evaluated cracks at the DART Bridge over I-35 straddle bent near Storey Road. The Michael Baker team was responsible for evaluation of cracks at this structure, review of DART documentation and standards, execution of a structural assessment including sketches and measurements, and preparation of an assessment report with repair recommendations, as well as the scope of repairs and engineer's estimate.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Danny Contreras**		Years of relevant experience with this employer	7	
Title	Bridge Inspector		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			AAS / 2016 / Construction Management		
Active registration number / state / expiration date			NHI Bridge Inspection - FHWA-NHI-130055 / Texas / No expiration date		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			**MPR 5:** Bridge Inspector		

Mr. Contreras' personal skills have been mainly achieved by obtaining an associate's degree in Construction Management and previous employment. His knowledge and skills obtained from school range from estimating, inspection, OSHA safety, construction. material testing, construction methods and materials, surveying, and many more. His broad range of knowledge has given him the fundamentals to succeed in the construction industry and get a foothold in a career path in bridge inspection. Through schooling and past employment he has also gained great writing and verbal skills and the ability to retain and present information. His ability to execute quality assurance and control. His ability to easily adapt to new technology and provide input on new technology. His ability to work alone or in a group setting and highly motivated to succeed and take on any challenge. He is bilingual, computer competent, and technology savvy.

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).
09/17 – 12/17	**Emergency Visual Bridge Inspections, Gonzales County, Texas.** *Texas Department of Transportation.* Bridge Inspector. Responsibilities included gathering and recording data and inspection findings during routine bridge inspections. Prepared inspection reports that document the condition of the structures inspected. Michael Baker provided a quick visual assessment of 200 structures on the state highway system (Interstate, U.S., State Highway, Farm to Market) in in three days using three, two-person teams. The purpose of the work was to assess any structural damage/misalignment, drift accumulation quickly, scour of the channel bed and banks, or erosion of the approach roadway embankments. As needed, Michael Baker measured the channel cross-section relative to the bridge for comparison to records maintained in the routine bridge inspection records.
09/11 – 10/19	**Complex and Fracture Critical Bridge Inspections, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Bridge Inspector. Responsible for providing safety and assistance with performing Complex Inspections for the Mississippi Department of Transportation. Responsibilities included gathering and correctly setting up equipment, securing the worksite, ensuring safety, and performing inspection assessments within state and federal compliance. Complex and Fracture Critical structures require a close visual inspection of every component. In many instances, a hydro platform was required on-site to help us gain access to unreachable areas. Michael Baker provided engineering services under multiple contracts for the inspection of locally owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services included project management, inspection plan development, in-depth condition, appraisal, and fracture-critical inspections, load ratings, and preparation of inspection and load-rating reports. The number of bridges inspected in the multiple contracts were: 1) FY 2018 & 2019 – 166 bridges; 2) FY 2016 & 2017 – 107 bridges; 3) FY 2014 & 2015 – 101 bridges; and 4) FY 2012 & 2013 – 194 bridges.
02/19 – 11/19	**Statewide Bridge Inspections, Statewide, Texas.** *Texas Department of Transportation.* Bridge Inspector. Responsibilities included gathering and correctly setting up equipment, securing the worksite, ensuring safety, and performing inspection assessments within state and federal compliance. Michael Baker provided engineering services for inspecting bridges owned and maintained by the Texas Department of Transportation. The contract included the initial and routine inspection of 254 bridges in multiple counties within the Beaumont District. Bridge types entailed prestressed concrete beam or girder bridges, reinforced

	concrete T-beam bridges, reinforced concrete slab bridges, single or multiple box culverts, and steel multi-girder or -beam bridges. For the project, Michael Baker performed structural inspections and load ratings, identified and documented structural deficiencies, and provided traffic control plans where necessary.
09/17 – 08/20	**OSARC Statewide Bridge Inspection, Statewide, Mississippi.** *Mississippi Department of Transportation.* Bridge Inspector. Responsible with providing safety and assistance with performing Timber Bridge Inspections for Mississippi Department of Transportation. Responsibilities consisted of gathering and correctly setting up equipment, securing the worksite, ensuring safety and performing inspection assessments within state and federal compliance. Timber routine inspections consisted of a close visual and hands on inspection. Sounding with a hammer and drilling were the primary methods used to find critical findings. Michael Baker provided inspection and engineering services under multiple contracts for the National Bridge Inventory bridge safety inspections, load rating, and reporting of bridges with varying superstructure types. Michael Baker's services included project management, inspection plan development, routine and in-depth condition and appraisal inspections, load ratings, and the preparation of inspection and load-rating reports. The bridges were located on local road systems owned and maintained by various counties, cities, and towns throughout Mississippi. In all, Michael Baker inspected 1,322 bridges over nine years, from FY 2012 to FY 2020.
10/19 – 11/20	**TxDOT Paris District Bridge Inspections, Multiple Counties, Texas.** *Texas Department of Transportation.* Bridge Inspector. Responsibilities consisted of gathering and correctly setting up equipment, securing the worksite, ensuring safety and performing inspection assessments within state and federal compliance. Michael Baker provided engineering services for the inspection of bridges owned and maintained by the Texas Department of Transportation's Paris District. The contract included the initial and routine inspection of 426 bridges in Fannin, Grayson, Hunt, Rains, and Red River Counties. Bridge types entailed prestressed concrete beam or girder bridges, reinforced concrete T-beam bridges, reinforced concrete slab bridges, single or multiple box culverts, and steel multi-girder or -beams bridges. For the project, Michael Baker performed structural inspections and load ratings, identified and documented structural deficiencies, and provided traffic control plans where necessary.
12/17 – 10/22	**Structural Inspections and Asset Management Services, Dallas/Fort Worth International Airport (DFW), Texas.** *Dallas/Fort Worth International Airport.* Bridge Inspector. Responsible for providing safety and assistance with performing Routine Bridge Inspections inside DFW International Airport. Responsibilities consisted of gathering and correctly setting up equipment, securing the worksite, ensuring safety and performing inspection assessments within state and federal compliance. Michael Baker is providing design and engineering services for structural inspections to maintain a variety of transportation and building assets at the Dallas/Fort Worth International Airport. Since 2006, Michael Baker has provided structural inspection services on the airport's infrastructure, including landside and airside bridges, multi-mile elevated SkyLink bridge structures, taxiway bridges, drainage structures, sound walls, retaining walls, runway and taxiway pavement, ancillary structures (sign structures, high mast illumination poles, and traffic sign structures), parking garages, and various building structures. For this contract, Michael Baker performs data collection and analysis, topographic mapping, surveying, and forensic and geotechnical investigations.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**William Gwaltney, EIT**		Years of relevant experience with this employer	8	
Title	Bridge Inspector		Years of relevant experience with other employer(s)	2	
Degree(s) / Years / Specialization			BS / 2014 / Civil Engineering		
Active registration number / state / expiration date			South Carolina Engineer-in-Training 19700 / South Carolina / No expiration date ADCI Dive Supervisor 62853 / Nationwide / April 2026 ADCI Air Diver 61510 / Nationwide / July 2025 FHW-NHI-380078 / Maryland / No expiration date FHW-NHI-130055 / Connecticut / No expiration date FHW-NHI-130053 / New Jersey / June 2027 FHW-NHI-130091 / New Hampshire / No expiration date		
Year registered	EIT - 2015 ADCI – 2020 NHI - 2015	Discipline	Engineering		
Contract role(s) / brief description of responsibilities			**MPR #8:** Diver Team Leader - Underwater Bridge Inspection		

Mr. Gwaltney is a civil/structural engineering technician experienced in designing, managing, and conducting above and underwater inspections on bridges and waterfront facilities. Over his career, he has led and participated in the underwater and topside inspection of bridge and waterfront structures throughout Alabama, Arkansas, Colorado, Georgia, Florida, Indiana, Iowa, Kentucky, Louisiana, Mississippi, North Carolina, Ohio, South Carolina, Tennessee, Texas, Wisconsin, Wyoming, Puerto Rico, and St. Lucia. He is experienced in SCUBA and surface-supplied diving and has completed training in lifesaving, CPR, and First-Aid. As part of underwater inspections of structures, Mr. Gwaltney has conducted ultrasonic testing and photographic documentation. He also has experience in the inspection of ancillary sign-structures in the states of Colorado, Ohio, and South Carolina. He is also experienced in structural design and load rating of 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).
10/22 – Present	**Bridge Inspection and Evaluation Engineering Services, Statewide, South Carolina.** *South Carolina Department of Transportation.* Team Leader. Responsible for providing quality assurance on bridge inspection reports performed/created by other SCDOT subconsultants. Michael Baker is providing bridge inspection and engineering evaluation services in support of a statewide, consultant-led, bridge inspection effort for higher priority bridges across South Carolina. The bridges included in this contract encompass interstate system bridges, bridges over railroads, underwater inspections, and bridges with more challenging access needs.
11/22 – 11/22	**Bridge Load Rating and Evaluation Engineering Services, South Carolina.** *South Carolina Department of Transportation.* Team Leader. Responsible for updating SCDOT forms to comply with new SNBI regulations. Michael Baker provided bridge load rating and evaluation engineering services for state-owned, county-owned, and other municipality-owned structures throughout South Carolina, primarily for the 1,815 bridges in District 3. Tasks include project management, site assessments, data collection, agency coordination, quality assurance reviews, and training development. Michael Baker established this statewide program and oversees five other consultants performing bridge load ratings, assessments, load and material testing, oversize and overweight permitting, complex structure rating and maintenance manuals, development of custom AASHTOWare Bridge Management program, and quality assurance reviews.

08/15 – 03/22	**Timber Bridge Inspections, Statewide, Mississippi.** *Mississippi OSARC.* Project Engineer. Project included providing NBIS bridge safety inspections, inspections for structural maintenance and repair, and develop load ratings of bridges containing decayed or deteriorated bridge components for the Mississippi Department of Transportation Office of State Aid Road Construction (OSARC) for 177 bridges statewide. All bridges included timber substructure elements, with timber or concrete superstructures. The purpose of the inspections was to inspect and determine the structural condition of all bridge components and determine the capacity of each bridge. Severely deteriorated bridges that represented a hazard to the traveling public were closed until repairs could be implemented. Above water bridge inspections were performed. A load rating of each span of each bridge was performed using AASHTO BrR® software. A detailed load rating report was prepared for each bridge. The bridges were evaluated for all vehicles, including Special Hauling Vehicles (SHVs) as defined in the AASHTO Manual for Bridge Evaluation. The Load Factor Rating (LFR) and Allowable Stress Rating (ASR) methods were used. All inspection data was uploaded in to OSARC's InspectTech database. Responsible for inspections, reports, and load ratings.
10/15 – 11/15	**Mechanical Inspection of Four Bridges, Statewide, Mississippi.** *Mississippi OSARC.* Project Engineer. The project included visual and operational inspections of the mechanical components of four moveable bridges in the Mississippi Counties of Harrison and Yazoo. The bridges consisted of two single-leaf lift spans, a double-leaf bascule, and a steel girder swing span. The visual portion of the inspection entailed a cursory evaluation of all accessible mechanical components, focusing on those most prone to wear and damage and damage. Coordinated with the various bridge operators to schedule operations of the moveable portions of the bridges and their respective components. Reports summarizing the method of inspection and the findings, along with evaluations of the inspection findings, repair recommendations, and major components sketches with in-situ measurements, were prepared. Responsible for inspection, drafting and reports.
09/06 – 09/06	**Underwater Bridge Inspection, Texas.** *Eastern Federal Lands.* Project Engineer. Project included the routine underwater inspection of nine bridges at five U.S. Air Force Facilities located in VA, NC, Florida, Texas, and CA, and 1 bridge at the Yosemite National Park in CA. The underwater inspections were initial inspections and consisted of a Level I inspection of all substructure units within the waterway from the high-water mark to the mudline, with Level II inspections performed on 10% of the substructure units, and soundings around each inspected substructure unit. During the inspections, Collins located, quantified, and photographed all significant deficiencies and/or defects. Due to the various size and remote and non-remote locations of the bridges, a combination of commercial scuba and surface-supplied air diving equipment was used. Following the completion of the field inspections, a separate inspection report was prepared for each bridge, including a summary of the inspection findings with significant findings quantified and located, NBIS Condition Ratings, an valuation of the findings, and repair recommendations, elevation sketches of each substructure unit inspected with ratings and defect/deficiencies located and quantified, above water and underwater photographs, and NBIS condition ratings. All project operations were completed in accordance with the AASHTO Manual for Bridge Element Inspection, FHWA Bridge Inspector's Reference Manual, NBIS 23 CFR 650 Subpart C, FHWA Recording and coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges. Responsible for inspection planning, inspection, and reports.
09/17 – 07/24	**Underwater Bridge Inspections, Statewide, Tennessee.** *Tennessee Department of Transportation.* Project Engineer. Project included the underwater inspection of 36 bridges for TDOT. Bridge inspections include acoustic imaging of 8 bridges. Responsible for performing underwater inspections and assisting with acoustic imaging.

16. Staff Experience:				
Firm employed by:	Michael Baker International, Inc.			
Name	**Chris Perry, EIT**	Years of relevant experience with this employer	7	
Title	Technical Manager	Years of relevant experience with other employer(s)	12	
Degree(s) / Years / Specialization		BS / 2004 / Civil and Environmental Engineering		
Active registration number / state / expiration date		Connecticut Engineer-in-Training / Connecticut / No Expiration ADCI Surface-Supplied Air Diving Supervisor – 52909 / Nationwide / May 2028 FHW-NHI-130053 / Washington / April 2027 FHW-NHI-130055 / Florida / No expiration date FHW-NHI-130078 / Connecticut / No expiration date FHWA-NHI-130087 / Connecticut / No expiration date FHW-NHI-130091 / Nationwide / No expiration date		
Year registered	EIT – 2005 ADCI – 2010 NHI - 2007	Discipline	Engineering Technician	
Contract role(s) / brief description of responsibilities		**MPR #8:** Diver Team Leader - Underwater Bridge Inspection		

Mr. Perry is a Technical Manager with nearly two decades of experience conducting above and underwater inspections on bridges, waterfront facilities, and ancillary structures. He is also skilled in the analysis of bridges and ancillary structures. In addition to his inspection and analysis capabilities, he has experience in sonar imaging, bathymetric surveying and land surveying.

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).
03/21 – Present	**SCDOT On-Call Bridge Inspection and Load Rating Program, Statewide, South Carolina.** *South Carolina Department of Transportation.* Underwater Inspector, Team Leader, Quality Assurance Reviewer. Project includes Bridge Maintenance Office support in developing underwater and scour policy, procedures, and general support. Responsible for the Quality Assurance reviews of all other consultant's underwater inspections as well as performing approximately 180 underwater inspections of which 80 have been completed to date. Bridge types include concrete, masonry, timber, and steel substructure bridges. All inspections were performed in accordance with the NBIS and the SCDOT Bridge Inspection Guidance Document. Detailed reports were prepared for each underwater bridge inspection that included a list of findings, a record of bridge soundings and stream velocity data, bridge profile, an evaluation and assessment of the bridge, and recommendations for repair. Responsible for inspection safety, leading structural inspections, supervising reporting, and quality control.
05/17 – Present	**NCDOT Bridge Inspection On-Call Services, Statewide, North Carolina.** *North Carolina Department of Transportation.* Team Leader, Deputy Project Manager. Responsible for performing safety and element level inspections for a variety of state and municipal structures ranging from arch and truss bridges to timber structures and culverts. Tasks include providing NBIS element-level inspection and the appropriate documentation of the condition of a variety of bridges, including state-owned and municipal. Analysis and load rating are also being provided for municipal structures.
01/05 – 10/18	**Routine & Underwater Bridge Inspection, and Ancillary Structure Inspection, Statewide, Connecticut.** *Connecticut Department of Transportation.* Deputy Project Manager, Team Leader, Dive Supervisor. With Michael Baker and other consultants, performed routine and in-depth inspections, and underwater

	inspections around the state of Connecticut. Tasks include providing NBIS element-level inspection and the appropriate documentation of the condition of a variety of bridges and preparing detailed bridge inspection reports.
06/14 – 04/18	**Inspection Services, Various Locations, U.S.** *United States Coast Guard, Districts 1 & 9.* Team Leader, Dive Supervisor. Responsible for scheduling, coordination for inspection of USCG facilities in Connecticut, Massachusetts, and New York. Performed the above water and underwater inspection at various USCG facilities including features such as bulkheads, docks, moorings, etc. in accordance with USCG and US Navy standards. All diving operations were performed following ADCI and OSHA diving standards. Tasks include inspection and report preparation including sketches, soundings, and repair recommendations.
08/07 – 12/16	**Routine & Underwater Bridge Inspection, Statewide, Rhode Island.** *Rhode Island Department of Transportation.* Team Leader, Dive Supervisor. Performed routine and underwater inspections throughout the state of Rhode Island. Tasks include providing NBIS element-level inspection and the appropriate documentation of the condition of a variety of bridges and preparing detailed bridge inspection reports. Analysis and load rating services were also performed for select bridges.
01/13 – 06/14	**Bridge Inspections Services, Various Locations, U.S.** *Eastern Federal Lands.* Team Leader, Dive Supervisor. Responsible for scheduling, coordination for inspection of complex and semi-complex bridge assignments. Performed above-water and underwater inspection of in-service bridges in various national parks. Performed 10 bridge safety inspections with element level reporting in accordance with National Bridge Inspection Standards (NBIS), and AASHTO's Bridge Manual for Element Inspection Engineering services for the inspection of bridges. Tasks included above-water and underwater inspections and the appropriate documentation for the condition of a variety of bridges.
01/08 – 06/11	**Ancillary Structures Inspection, Richmond & Hampton Roads Districts, Virginia.** *Virginia Department of Transportation.* Team Leader. Performed traffic signal support structures inspections and reporting for over 400 structures in Richmond and Hampton Roads Districts. The inspections involved visual inspection and measurement of all components, surface preparation, non-destructive testing of all welds, ultrasonic testing of anchor rods, and digital photos. Reports included access condition rating and description forms, CADD diagrams and details with dimensional information and photo documentation.

16. Staff Experience:				
Firm employed by:	Michael Baker International, Inc.			
Name	**Lee Murdoch, PE, CCM**		Years of relevant experience with this employer	2
Title	Construction Manager		Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization			BS / 2009 / Civil Engineering	
Active registration number / state / expiration date			Professional Engineer 0045528 / Maryland / June 2026 Certified Construction Manager / Nationwide / July 2029 ADCI Surface-Supplied Air Diver 57517 / Nationwide / March 2028 FHWA-NHI-130053 / Nationwide / May 2028 FHWA-NHI-130091 / Nationwide / No expiration date	
Year registered	PE – 2014; CCM – 2024; ADCI – 2015; FHWA NBIS – 2018; NHI - 2013	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities			**MPR #8:** Diver Team Leader - Underwater Bridge Inspection	

Mr. Murdoch is a professional engineer and senior construction manager experienced in all construction lifecycle phases from initiation to completion. He has maintained focus to ensure adherence with contract requirements while planning, executing, monitoring, controlling, and closing projects. Mr. Murdoch's background includes, but is not limited to, preparing cost estimates, managing construction schedules, monitoring project budgets, controlling project documentation, overseeing workforce, planning subcontractors, performing existing structure condition assessments, and ensuring compliance with safety regulations. He has a demonstrated history of working closely with marine engineers on a variety of projects for state agencies, local agencies, and private waterfront owners in and around the DELMARVA region. During this time, Mr. Murdoch has performed constructability reviews to bring the contractor prospective into the design phase. In doing so, he has improved design clarity, substantiated alternate methods, and minimized technical, specialized and labor-intensive design details.

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).
10/22 – Ongoing	**Bridge Inspection and Evaluation Engineering Services, Statewide, South Carolina.** *South Carolina Department of Transportation.* QA/QC. Responsible for underwater bridge inspection report QA reviews as part of the SCDOT Bridge Inspection Program. Ensure SCDOT BIGD conformance with reporting requirements and provide general concurrence with recommended inspection frequency, NBI condition ratings, critical findings, and repair recommendations. Michael Baker is providing bridge inspection and engineering evaluation services in support of a statewide, consultant-led, bridge inspection effort for higher priority bridges across South Carolina. The bridges included in this contract encompass interstate system bridges, bridges over railroads, underwater inspections, and bridges with more challenging access needs.
10/22 – Ongoing	**South Carolina Bridge Inspection and Evaluation Engineering Services, Statewide, South Carolina.** *South Carolina Department of Transportation.* QA/QC. Responsible for underwater bridge inspection report QA reviews as part of the SCDOT Bridge Inspection Program. Ensure SCDOT BIGD conformance with reporting requirements and provide general concurrence with recommended inspection frequency, NBI condition ratings, critical findings, and repair recommendations.
01/22 – Ongoing	**Engineering Consultant Services for the 167th Airlift Wing of the WVANG at MRB, Eastern West Virginia Regional Airport (MRB), Martinsburg, West Virginia.** *National Guard Bureau.* Project Manager. Responsible for oversight and coordination throughout all phases of construction including initiating, planning, executing, monitoring, and closing. Responsibilities include owner coordination, contractor coordinating, and various construction administration tasks

	to ensure the project was completed according to schedule, specifications, and budget. Michael Baker provided professional services associated with the design, construction administration, management, and inspection of the installation of an AMP-3 landing zone lighting system for the 167th Airlift Wing of the West Virginia Air National Guard at the Eastern West Virginia Regional Airport. Additionally, Michael Baker provided grant assistance services throughout the design and construction of the project. The construction services scope of work included representation of the owner, both onsite and offsite, inspection, project management, and office support throughout the construction phase of the project.
06/21 – Ongoing	**CMI Airfield Lighting Rehabilitation, Eastern West Virginia Regional Airport, Shepherd Field (MRB), Martinsburg, West Virginia.** *Eastern West Virginia Regional Airport Authority.* Project Manager. Responsible for oversight and coordination throughout all construction phases, including initiating, planning, executing, monitoring, and closing. Responsibilities include owner coordination, contractor coordination, and various construction administration tasks to ensure the project was completed according to schedule, specifications, and budget. Michael Baker provided on-call engineering consulting for Eastern West Virginia Regional Airport/Shepherd Field. Michael Baker oversaw design services related to the rehabilitation of the airfield lighting systems, including preliminary and final design engineering. Responsibilities under this contract included construction administration services to manage and coordinate the construction of the proposed improvements.
06/18 – 09/24	**West Virginia Air National Guard Landing Zone Lighting, Eastern WV Regional Airport/Shepherd Field (MRB), Martinsburg, West Virginia.** *Eastern West Virginia Regional Airport Authority.* Project Manager. Responsible for oversight and coordination throughout all construction phases, including initiating, planning, executing, monitoring, and closing. Responsibilities include owner coordination, contractor coordination, and various construction administration tasks to ensure projects were completed according to schedule, specifications, and budget. Michael Baker is the on-call engineering consultant for Eastern WV Regional Airport/Shepherd Field. Michael Baker provided design services related to the rehabilitation of the airfield lighting systems, including preliminary and final design engineering. Other responsibilities included NEPA documentation (CATEX) for the proposed improvements.
09/21 – Ongoing	**Airline Maintenance Facility and Taxiway F Phase 1 Segment 1, Baltimore/Washington International Thurgood Marshall Airport (BWI), Baltimore, Maryland.** *Maryland Aviation Administration.* Construction Manager. Responsible for assisting the resident engineer throughout all construction phases, including initiating, planning, executing, monitoring, and closing. Responsibilities include owner coordination, contractor coordination, and various construction administration tasks to ensure the project was completed according to schedule, specifications, and budget. Michael Baker is conducting work for the airline maintenance facility and Taxiway F rehabilitation. Clearing and grubbing, approximately 1.7 million cubic yards of excavation and stockpiling, placing topsoil and seeding, and landscaping are required. Construction of a security fence and gate, site preparation, and various asphalt and concrete pavement renewal are needed. The contract includes rehabilitating a storm drain system, potable water service, sanitary sewer, electric service, and communication service. Michael Baker also oversees relocation of a Federal Aviation Authority duct bank and airfield electrical and lighting installation.

16. Staff Experience:				
Firm employed by:	Michael Baker International, Inc.			
Name	**Tristin Stewart**		Years of relevant experience with this employer	1
Title	Dive Supervisor/Inspector - Underwater Bridge Inspection		Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization			AS / 2016 / Welding Technologies Certificate / 2018 / Marine Diving Technologies	
Active registration number / state / expiration date			FHWA-NHI-130091 / Connecticut / N/A FHWA-NHI-130078 / South Carolina / May 2029 ADCI Surface-Supplied Air Diving Supervisor - 62494 / South Carolina / February 2026 ADCI Surface-Supplied Air Diver - 62259 / South Carolina / January 2026 Commercial Diver Training / California	
Year registered	FHWA – 2023; 2024	Discipline	Diving	
Contract role(s) / brief description of responsibilities			**MPR 9:** ADCI Surface Supplied Air Diving Supervisor	

Mr. Stewart is an Underwater Bridge Inspector with 5 years of experience in the commercial diving industry. His diving career started in Santa Barbara, California, where he worked as a diver, servicing yachts. Progression in his career led him to the maintaining of Naval Vessels, Cargo Ships, and Tugboats. He also branched into Hydroelectric infrastructure, specializing in underwater inspection, repair, and pipeline location. The nature of the work demanded the use of surface-supplied diving equipment. This gave Mr. Stewart a strong base of supervisory and diving experience that included mixed gas diving, hyperbaric chamber operator time, penetration diving, welding, burning, boat operations, and custom fabrication. He has a dive depth record of 200 ft, and he is eager to pursue his diving career and hopefully break a new record.

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 – present	**Routine Underwater Bridge Inspection, Statewide, South Carolina.** *SCDOT.* Assistant Team Leader / Diver. Project included the underwater inspection of 50 bridges and culverts which required inspection per FHWA compliance for the South Carolina Department of Transportation. Bridges were in the midlands and upstate. Bridges included concrete, timer, steel, and masonry substructures. All inspections were performed in accordance with the National Bridge Inspection Standards (NBIS), Association of Diving Contractors International (ADCI), and the SCDOT Bridge Inspection Guidance Document. For each bridge inspection, documentation of the structural condition was maintained in AASHTOWare Bridge Management software (BrM). Detailed reports were prepared for each underwater bridge inspection that included a list of findings, a record of bridge soundings and stream velocity data, bridge profile, an evaluation and assessment of the bridge, and recommendations for repair. Field responsibilities included safe diving operations, plan execution, and upkeeping of the overall dive system functionality.
10/23 – 11/23	**Mississippi Bridge Inspection, Statewide.** *Mississippi MDOT (OSARC).* Assistant Team Leader. Project included the inspection and assessment of approximately 25 bridges located throughout Mississippi. Inspections were conducted per NBIS guidelines to document the current condition of the structures per FHWA reporting requirements. For each bridge inspection, documentation of the structural condition was maintained in MDOT's (OSARC) AssetWise system. Detailed reports were prepared for each bridge inspection that included a list of findings, a record of bridge soundings, bridge profile, an evaluation and assessment of the bridge, and recommendations for repair.

10/21 - 10/21	**Service Package USNS Medgar Evers, North Charleston, SC.** *Detyens Shipyard*. Lead Diver / Dive Supervisor. Maintenance and inspection package for the USNS Medgar Evers. The work included a level 2 inspection of the hull / running gear and sea chests. Contract required that sea chests be hydro blasted, opened using pneumatic or hydraulic impacts, anodes changed, reinstalled and lock wired shut to ensure a failsafe fastener system. Anode replacement of this nature typically involved the installation of multiple cofferdams or inflatable plugs within or over the sea chest to create a watertight seal and acting as a primary defense against flooding. The job was performed using surface supplied dive equipment with HD video and audio documentation.
06/22 - 06/22	**Transducer Replacement NOAA Ronald H. Brown, North Charleston, SC.** *Detyens Shipyard.* Lead Diver / Dive Supervisor. Project required a level 1 survey of the ship's hull and condition with special attention to the location and replacement of the ships primary transducer system. Using pneumatic and hydraulic tools the sea chest grate was removed, the new unit mounted and wired into place, and the sea chest grate reinstalled without incident. The job was performed using surface supplied dive equipment with HD video and audio documentation, and was successfully completed while remaining within time constraints.
07/21 - 07/21	**Caisson Inspection and Repair, North Charleston, SC.** *Detyens Shipyard.* Lead Diver / Dive Supervisor. Inspection of the caisson's internal systems ¬¬to ensure functionality and safety. This level 2 inspection primarily focused on the framework, valves, and piping in the submerged portion of the caisson. Damaged reach rods and steady bearing assemblies were discovered, removed, and reinstalled into the gate valves and the system put back into full service. The job was performed using surface supplied dive equipment with HD video and audio documentation.
08/20 - 08/20	**F.E.R.C. Inspection, Fairfield, SC.** *Dominion Energy.* Lead Diver / Dive Supervisor. The project was a level 2 inspection of a hydroelectric facility that entailed 100 percent tactile and visual inspection of the submerged portions of the generating system from the head gate intake bays to the discharge bays and tail race, excluding the penstocks as they were drained and inspected by the plant. Detailed reports were made and submitted to the plant for addition to the overall F.E.R.C. report. The job was performed using surface supplied dive equipment with HD video and audio documentation.

16. Staff Experience:				
Firm employed by:	Michael Baker International, Inc.			
Name	**Brian Rhett, PE**		Years of relevant experience with this employer	2
Title	Project Manager – Bridge Inspection		Years of relevant experience with other employer(s)	11

Degree(s) / Years / Specialization			MS / 2011 / Structural Engineering BSE / 2009 / Civil and Environmental Engineering
Active registration number / state / expiration date			Professional Engineer – 40201 / Louisiana / March 2026 ADCI Surface-Supplied Air Diver - 55452 / February 2027 FHWA-NHI-135047 / Minnesota / No expiration date FHWA-NHI-130053 / Texas / December 2025 FHWA-NHI-130055 / South Carolina / No expiration date FHWA-NHI-130078 / South Carolina / May 2029 FHWA-NHI-130091 / Louisiana / No expiration date Course #135047 / No expiration
Year registered	PE – 2014 ADCI – 2013 NHI – 2014, 2015, 2020	Discipline	Civil Engineer - Structural
Contract role(s) / brief description of responsibilities			**MRP #11:** Diver Team Leader - Underwater Bridge Inspection; Imaging

Mr. Rhett is a Project Manager and Civil/Structural Engineer with over a decade of experience designing, managing, and conducting above and underwater inspections on bridges and waterfront facilities. He is responsible for the management of Michael Baker's Underwater Inspection and Rehabilitation Program and is an ADCI certified Surface-Supplied Air Diving Supervisor. Over his career, he has led and participated in the underwater and topside inspection of bridge and waterfront structures in 33 of the 50 states, in several U.S. territories, and internationally in several Caribbean countries. He has experience conducting underwater inspections per ADCI, DCBC, OSHA, and EM-385 standards. Additionally, he has helped develop underwater inspection and scour policy for several state transportation departments. Augmenting his inspection capabilities , Mr. Rhett has experience designing a wide array of marine structures including bridges, docks, wharfs and piers, bulkheads, marinas, port facilities, and various ancillary marine structures. He has experience conducting traditional, as well as finite-element and dynamic time-history analyses.

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).
11/22 – Present	**On-Call Bridge Inspection and Load Rating Program, Statewide, South Carolina.** *SCDOT.* Underwater Project Manager, Team Leader. Project includes Bridge Maintenance Office support in developing underwater and scour policy, procedures, and general support. Responsible for the Quality Assurance reviews of all other consultant's underwater inspections as well as performing approximately 180 underwater inspections of which 90 have been completed to date. Bridge types include concrete, masonry, timber, and steel substructure bridges. All inspections were performed in accordance with the National Bridge Inspection Standards (NBIS) and the SCDOT Bridge Inspection Guidance Document. Detailed reports were prepared for each underwater bridge inspection that included a list of findings, a record of bridge soundings and stream velocity data, bridge profile, an evaluation and assessment of the bridge, and recommendations for repair.

	Responsible for management of the underwater portion of the project, inspection safety, leading structural inspections, scour inspections, client coordination, supervising reporting, and quality control.
03/23 – 06/24	**IOWA DOT Bridge Inspection Manual Update.** *Iowa DOT.* Underwater Inspection and Scour Engineer. Project included the review of the 2015 Iowa DOT Bridge Inspection Manual, bridge inspection reports, and other inspection-related guidance to compare these items to the 2022 NBIS and SNBI regulations. A list of recommendations for both compliance and general suggestions were made by the Michael Baker Team. After general comments, a new manual structure and format were made per Iowa DOT and Style Guide requirements, and the manual was updated by Michael Baker. Responsible for review of and making recommendations for the updating of the underwater inspection and scour-related policy.
10/23 – Ongoing	**OSARC Bridge Inspection Manual Update.** *Mississippi Office of State Aid Road Construction (OSARC).* Underwater Inspection and Scour Engineer. Project included the review of the 2016 OSARC National Bridge Inspection Program Local System Manual, bridge inspection reports, and other inspection-related guidance to compare these items to the 2022 NBIS and SNBI regulations. A list of recommendations for both compliance and general suggestions were made by the Michael Baker team. Responsible for review of and making recommendations for the updating of the underwater inspection and scour-related policy.
08/17 – 03/21	**Statewide Inspection/Load Rating, Statewide, Mississippi.** *Mississippi OSARC.* Structural Engineer and Team Leader. Project included the inspection and load rating of 77 complex bridges located throughout Mississippi. The inspections were performed in accordance with the National Bridge Inspection Standards (NBIS) and documented the structural condition of each bridge. For each bridge, determined the structural capacity, prepared load rating reports, and maintained data in OSARC's InspectTech database. Bridges were load rated using AASHTOware BrR, STAAD and excel spreadsheets. Responsible for performing bridge load ratings and the inspection of bridges.
08/17 – 01/20	**Ravenel Bridge System and Coastal Bridge Asset Management, Statewide, South Carolina.** SCDOT. Team Leader/Diver. Project included providing the engineering services necessary for the management, inspection, maintenance, warranty protection, and preservation of the Arthur Ravenel Bridge System, the longest cable stay span in North America, and other selected coastal bridges in Beaufort, Berkeley, and Charleston counties. Responsible for the biennial routine structure inspections, the required warranty item specific frequency inspections, and post-emergency inspections. The 18 bridges that compose the Arthur Ravenel Bridge System encompass over 6.1 miles of structures, the 4 coastal bridges in Berkeley and Charleston counties encompass over 10.4 miles of structures, and the 2 Beaufort county bridges encompass over 2.0 miles of structures. The bridge types ranged from multi-level interchanges, cable-stayed system, prestressed concrete beam and tub girders, post tensioned girders and deck, steel plate girders, flat slabs, and fracture critical members. Responsibilities included performing the inspection and reporting of the assigned bridges.
01/14 – 12/16	**Underwater Bridge Inspections, Statewide, Louisiana.** *LA DOTD.* Team Leader/ Assistant Project Manager. Project included the inspection of over 400 bridges in accordance with the National Bridge Inspection Standards. Assessed and analyzed bridges' condition and recommended repairs and improvements. Bridges consisted of single-span and multi-span bridges, and swing bridges constructed of concrete, steel, and timber. High-resolution scanning sonar was used on selected bridge elements. Timber coring, timber resistometers, and ultrasonic thickness gauges were utilized to assess deterioration of bridge elements. Commercial surface supplied and SCUBA diving methods were utilized to complete the inspections. Responsible for project management and the conducting of inspections as a team leader.

16. Staff Experience:				
Firm employed by:	Michael Baker International, Inc.			
Name	**Mary E. Flynn, PE**		Years of relevant experience with this employer	12
Title	Department Manager - Construction Services		Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization			BS / 1997 / Civil Engineering BS / 1997 / Surveying	
Active registration number / state / expiration date			Professional Engineer - 35931 / Louisiana / September 2024 Radiation Safety Officer / Louisiana / No expiration	
Year registered	PE – 2002 RSO - 2012	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Quality Manager (Construction)	

Ms. Flynn possesses construction management experience, directing multimillion-dollar, highly complex, and specialized construction engineering and inspection projects. She is proficient in coordinating project changes and issues, dispute resolution and recommendations, inspection, material testing, analyzing contract change requests from contractors and engineering consultants, and supervising inspection staff. Her quality control and quality assurance management experience has included new bridge and highway construction and rehabilitation projects, including structural steel bridge structures, span-by-span and variable depth balanced cantilever precast segmental bridge projects, AASHTO girder bridge structures, such as the John James Audubon Bridge in Louisiana. In addition, she is successful in performing constructability reviews, specification reviews, and writing project-specific specifications. Ms. Flynn's specification writing including the Construction Quality Assurance Program (CQAP) for LA DOTD design-build projects (original 2013 and revised 2016 versions), ODOT's first Performance-Based Concrete specification, as well as various portions of project contracts dealing with quality control and project close-out.

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).
10/05 - Ongoing	**General Engineering Services Contract, Eastern and Midwestern, U.S.** *Norfolk Southern Corporation.* Project Manager. Responsible for providing qualified inspection staff to deliver the project successfully. Michael Baker is providing rail system engineering services to support the client's design and construction department via an ongoing, non-project-specific service contract. Engineering services support projects anywhere within the client's operating system, which extends throughout the Eastern and Midwestern United States. Michael Baker has provided technical services for all phases of project development, including preliminary engineering and environmental studies, final design, permitting, and construction. Services are furnished on a project-specific basis, as requested by the client, to support the development of individual projects. Michael Baker also proposes on projects under project-specific agreements, as requested by the client.
08/21-01/24	**CE&I for Local Road Safety Upgrades - West Feliciana Parish, West Feliciana Parish, Louisiana.** *LA DOTD.* Project Manager. Responsible for contract administration, construction engineering, and supervision of inspection and materials sampling and testing for all construction phases, including guardrail, signing, striping, and traffic control items. Coordinated between LADOTD, West Feliciana Parish Responsible Charge and contractor. Responsible for partial and final estimates, change orders, 2059, red-line final drawings, and final closeout. Michael Baker is providing construction management, inspection, and final audit of the West Feliciana Parish Local Road Safety Upgrade project. The project consists of safety improvements to nine local roads. Improvements include approximately 100 miles of thermoplastic striping, over 1,000 signs, and over 3,000 feet of guardrail. Inspections include verifying traffic control for daily operations, including lane closures with flaggers and moving operations.

06/19-03/23	**Owner Verification Testing and Inspection for Southern Gateway Corridor, Dallas, Texas.** *Texas DOT (TxDOT).* Program Manager. Responsible for providing oversight and administration over all tasks, including Owner Verification Testing and Inspection (OVTI) and CPM schedule review. Michael Baker provided Owner Verification Testing and Inspection (OVTI) oversight for the Southern Gateway Corridor project. As part of its services, Michael Baker provided OV tests at a stipulated testing frequency, along with the review and approval of quality assurance test results. The team also conducted audits to verify the design-build team's Construction Quality Management Plan.
04/19-5/20	**I-210 Prien Lake Superstructure Deck Replacement, Statewide, Louisiana.** *LADOTD.* Project Manager. Performed as the Project Manager to provide LA DOTD-certified inspectors to augment LA DOTD staff. Performed as the point of contact to ensure the DOTD needs were met. In addition, reviewed and approved all costs associated with the project and approved invoicing before being sent to the client. Under this first IDIQ task order, Michael Baker provided staff augmentation services including LA DOTD-certified construction inspection and administration for replacing the I-210 Prien Lake superstructure deck. The project included installing a sub-deck safety inspection walkway, bridge barrier rail replacement, mill and overlay with asphaltic concrete, plastic pavement striping, bridge drainage, and approach slab lightening.
04/13-05/16	**Retainer Contract for Design-Build Support Services, Statewide, Louisiana.** *LA DOTD.* Resident Engineer. Responsibilities vary for each task order under this retainer. Under a five-year retainer contract, Michael Baker provided construction inspection and quality assurance for statewide design-build transportation projects. Michael Baker's services included project initiation, design-build procurement support, contract administration and management, design, and construction quality acceptance (owner verification), construction engineering and inspection (CE&I), partnering, public information support, document control, and dispute resolution.
02/14-07/14	**U.S. 90 Design-Build Project, Lafayette Parish, Louisiana.** *LA DOTD.* Resident Engineer. Responsible for contract management/project management, construction engineering, and managing inspection and materials sampling and testing for all construction phases, including new structure construction, existing structure replacement/widening, full-depth asphalt roadway, embankment, and base course. Responsible for statistically validating quality assurance test data and tracking of Michael Baker inspection and testing within the project's SharePoint website for design-build projects, reviewing and responding to RFI's and NCR's, reviewing plans and shop drawings, verifying test data for material acceptance, and project coordination meetings. Michael Baker provided contract and project management services to the LA DOTD for the U.S. 90 Design-Build Project from Ambassador Caffery to Albertson's Parkway. The project included implementing a new frontage road system, improvements to L.A. 182, new ramps, a new drainage system, and a mainline structure over Albertson's Parkway and the BNSF Railroad. Michael Baker provided project scoping, conceptual design, and performance specifications as part of the project. Michael Baker also performed design and schedule reviews, construction inspection, and quality assurance verification during the life of the project.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Tony Hunley, PhD, PE, SE**		Years of relevant experience with this employer	1	
Title	National Director, Bridge Services		Years of relevant experience with other employer(s)	26	
Degree(s) / Years / Specialization			PhD / Structural Engineering; MSCE / Structural Engineering; BSCE / Structural Engineering		
Active registration number / state / expiration date			Professional Engineer - 38940 / Louisiana / September 2024; Structural Engineer - 081005839 / Illinois / November 2024		
Year registered	2014	Discipline	Professional Engineer (Civil, Structural)		
Contract role(s) / brief description of responsibilities			Quality Manager (Bridges)		

Mr. Hunley will be available for any structure QA reviews as needed. His vast experience with projects of different scales allows him to assist in ensuring sound decisions are being made. He provides nationwide technical assistance to the Michael Baker Bridge Practice for complex and unusual projects. Tony can offer valuable insight into the efficient and sound design of DOTD 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).
01/21-09/22	**I-49 Lafayette Connector, Lafayette, Louisiana.** *LA DOTD.* Deputy Structures Lead. Responsible for a conceptual design analysis of the multi-level Kaliste Saloom Interchange. The 3-level interchange connects the new I-49, Evangeline Thruway, and Kaliste Saloom Road. The interchange consists of nine bridges, of which several feature significant flared spans and most on curved alignments. The minimum radius is 515 feet, crossing multiple roadways and a BNSF Railroad track. The conceptual design phase included type, size, and span arrangement development. Steel plate girder, trapezoidal steel box girder, and precast segmental box girder superstructure types were evaluated. Span lengths vary up to 210 feet and complex features included integral post-tensioned pier caps and integral straddle caps over the BNSF Railroad.
02/18-01/22	**Bridging Kentucky Program General Engineering Consultant, Multiple Locations, Kentucky.** *Kentucky Transportation Cabinet.* Program Manager. The Bridging Kentucky Program is an expansive statewide bridge restoration program launched by KYTC in 2018 with an initial mandate to address more than 1,000 bridges across the state over six years with an initial estimated budget of $700M. The program is rehabilitating, repairing, or replacing critical bridges that are either closed to traffic, weight-restricted, or rated in poor condition. The program focuses on smaller bridges across the state that have historically struggled to get the necessary funding. Tony is the consultant team Program Manager leading a team of 22 firms collaborating with several in-house divisions of KYTC to provide program management oversight. document and process management, scheduling, internal and overall program financial management, information management, and program-level communications services., screening and prioritization of bridges, preliminary and final design, environmental services, utility coordination, right-of-way acquisition, construction procurement support for design-bid-build and design-build projects, design-build owner's engineer services, and construction management and inspection support. During the 120-day kick-off phase to kick-start the program, the team established organization and communication protocols; finalized the program brand and internal/external communication strategies; developed a Program Charter in collaboration with KYTC, FHWA, and various stakeholder and oversight agencies to establish authority and critical streamlining approaches to project development design, environmental studies and approvals, ROW acquisition, and utility relocation coordination; established the document and progress management system. utilized e-Builder Program Management Information Software system; screened more than 1,100 bridges to determine recommended scope, preliminary cost, and critical

	design/schedule challenges, and initiated design of several bridges to be rehabilitated. The program is being delivered utilizing a variety of delivery methods including individual bridge construction projects, bundling of bridge projects, and a design-build bundle contract of 106 bridges.
04/07-06/09	**River Road Bridge Widening over Harrods Creek, Prospect, Kentucky.** *Kentucky Transportation Cabinet.* Department Manager. Responsible for construction phase engineering services for the widening and rehabilitation of a three-span reinforced concrete filled-spandrel arch bridge. The existing one-lane historical bridge was widened to two lanes by removing the existing concrete balustrade railings and excavating enough of the cobble infill to "hide" a new prestressed concrete beam superstructure with PPC deck panels cantilevered beyond the existing spandrel walls. The concrete arch and spandrel walls were inspected and rehabilitated. This project won the 2010 APWA-KY Chapter "Project of the Year" award in the Historic Preservation Category. over $1 Million., the 2011 PCI Design award in the Rehabilitated Bridge Category, and the 2012 ACEC-KY Engineering Excellence Grand Award, and the ACEC Engineering Excellence National Recognition Award in the Structural Systems category.
03/05-04/06	**Relocated US 25E over Cumberland River.** *Kentucky Transportation Cabinet.* Construction Inspector. Two sets of twin structures during the widening and relocating of US 25E. The four structures were 10-span PC I-beam bridges with more than 1,100 feet of total bridge lengths. Tony performed materials testing, field surveying, and inspection of construction activities and methods during drilled caisson and pile foundation construction and substructure and superstructure construction.
10/04-07/05	**I-75 over Rockcastle River, Laurel and Rockcastle Counties, Kentucky.** *Kentucky Transportation Cabinet.* Structural Engineer. Responsible for preliminary and final designs and plans for the widening and rehabilitation of two existing five-span structures. The structures originally consisted of two units; a three-span (160 feet, 200 feet, 160 feet) and a two-span (160 feet by 160 feet) with non-composite 96-inch welded steel plate girder framing. The new structure connects and widens the existing substructures and replaces the existing steel girder superstructures. The 258.036-meter long, five-span, continuous, 1,975-milimeter composite welded steel plate girder structure has a deck width of 39.01 meters and a 33-degree skew. The removal and construction of the new structure were performed in three construction stages to accommodate the maintenance of traffic. The concrete multi-column piers were connected and retrofitted for the new superstructure. Drilled shafts were used on two of the pier in-fills to avoid deep excavations adjacent to the existing piers.
08/04-05/06	**KY 922 Newtown Pike over UK Agricultural Station Branch, Newtown Pike Design-Build, Lexington, Kentucky.** *Kentucky Transportation Cabinet.* Structural Project Manager. Responsible for preliminary and final design and structure plans for a new three-span. 14 feet, 22 feet, 14 feet. cast-in-place concrete slab bridge. Aesthetic design features incorporated into the structure include a stone veneer and concrete barrier with 4-inch KY River Marble Cut Stone lay on both faces of the barrier. The bridge is situated on a 22.9-degree right skew. The bridge's structures included wall piers and breast wall abutments founded on spread footings keyed into bedrock.

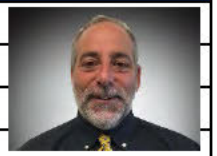
16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Ralph Gromley, PLS**		Years of relevant experience with this employer	10	
Title	Survey Program Manager		Years of relevant experience with other employer(s)	31	
Degree(s) / Years / Specialization			Diploma / 1980 / College Prep		
Active registration number / state / expiration date			Professional Land Surveyor PLS.005283 / Louisiana / March 2025		
Year registered	PLS - 2022	Discipline	Land Surveyor		
Contract role(s) / brief description of responsibilities			Quality Manager (Survey)		

Mr. Gromley has extensive national and international experience in the field and office, including topographical, bathometric, boundary, ALTA/ACSM, and 3D surveying. As a technical manager licensed in multiple states, Mr. Gromley has supervised survey crews and worked on numerous transportation, architecture, aviation, environmental, and oil and gas projects. His expertise includes boundary retracement, construction services, and knowledge of surveying laws. He is proficient with a range of surveying software packages and instruments, including A-GIS, Trimble, Carlson Software, and Leica products.

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).
06/15-01/20	**PNC – ADA Remediation Design, Pittsburgh, Pennsylvania**. *PNC Bank, N.A.* Surveyor. Responsible for all Topographic Surveys using Leica Conventional and Scanner Surveying Tools. Using the Static Scanner to do the topographic allowed employees to cut the time in the field and keep the survey department from making additional trips to the project as projects expanded. Michael Baker is providing construction oversight services under the PNC Master Services Agreement for ADA remediation design in Pittsburgh, Pennsylvania. Michael Baker is supplying on-site construction oversight, inspection, and construction administration services during the construction phase.
07/18-08/18	**Retaining Wall and Noise Wall Inspections, Pennsylvania**. *Pennsylvania DOT (PennDOT).* Chief Surveyor. Responsible for reviewing all survey data (i.e. control, boundary, topographic, borings, potholing and LiDAR point cloud data if applicable). After the completion of the initial survey and completion of the design of the project, construction control surveys are completed to reference the survey baseline for the construction of the project.
04/16-04/16	**Rural Ridge Substation Access Road, Rural Ridge, Pennsylvania**. *Duquesne Light Company.* Surveyor. Responsible for the management of survey crews and final QA/QC of work. Michael Baker provided comprehensive engineering services to stabilize and modify the existing access road to the Rural Ridge Substation. Michael Baker provided the design to facilitate the construction of a new access road to prevent future access road erosion due to increased creek flow experienced during winter thaw and storm conditions present at Little Deer Creek. Michael Baker's services included an existing conditions evaluation, environmental assessment, alternatives analysis, permitting and agency coordination, final design, bidding-phase support, construction administration, and construction inspection.
03/16-03/16	**S.R. 308 West Sunbury Bridge Replacement Construction Phase Services, Indiana County, Pennsylvania.** *PennDOT.* Chief Surveyor. Responsible for reviewing all survey data (i.e. control, boundary, topographic, borings, potholing and LiDAR point cloud data if applicable). After the completion of the initial survey and completion of the design of the project, construction control surveys are completed to reference the survey baseline for the construction of the project. Michael Baker provided construction survey services for the replacement of the S.R. 308 West Sunbury Bridge. Michael Baker provided this field surveying as a subconsultant to another engineering firm. Michael Baker previously provided technical support for the development of the preliminary and final design.

09/14-10/14	**Chippewa Veterans Park Engineering Services, Chippewa Township, Pennsylvania**. *Chippewa Township.* Surveyor. Updated topographic survey for retention basin at north end of project. Michael Baker provided civil engineering, permitting, and construction management/inspection services for a 50-acre community park and sports field complex, including soccer fields, baseball fields, pavilions, play areas, walking trails, parking areas, and other associated amenities and facilities. Initially, Michael Baker reviewed several conceptual site plans with the client to establish an overall master plan for the site. Michael Baker exercised considerable creativity to locate the various fields and other amenities in order to maximize usable space and retain the existing tree line as much as possible. Michael Baker then prepared a site plan depicting the layout of the proposed fields, trails, and parking areas. The plan was used for preliminary and final approval by the Township Planning Commission and Supervisors.
06/07 – 12/14	**General Architect and Engineering Services Contract, U.S. and Territories**. *U.S. Coast Guard, CEU Cleveland.* Surveyor. Performed actual topographic survey of a 4+ acre site using Conventional and Static Scanning survey equipment. The survey included the location of all infrastructure. Responsibilities also included the final review of survey data and final record drawings. Michael Baker provided services under a U.S. Department of Homeland Security $50 million, 10-year indefinite delivery-indefinite quantity general architect and engineering contract for work at U.S. Coast Guard facilities within the U.S. and its territories. The scope of the contract included modifications and renovations to existing structures as well as new construction. Facility types and applications included space planning, light commercial buildings and their mechanical and electrical systems, site utilities, waterfront facilities, dredging, structural inspections, and runways.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Joshua Derechin, PE**		Years of relevant experience with this employer	25	
Title	Technical Manager - Bridge		Years of relevant experience with other employer(s)	10	
Degree(s) / Years / Specialization			MSCE / 1993 / Civil Engineering BSCE / 1988 / Civil Engineering		
Active registration number / state / expiration date			PE 015475 / West Virginia / December 2024		
Year registered	2012	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Team Leader - Above Water Bridge Inspection; Design Services & Load Rating		



Mr. Derechin is a Bridge Engineer with extensive experience in bridge/tunnel design and inspection. He is the Technical Manager of the Bridge Group in Charleston and is proficient in design based on the LRFD code and Seismic analysis using AASHTO and AREMA. He has designed bridge/tunnel components using steel, reinforced concrete, prestressed concrete, post-tensioned concrete, FRP, and timber. He has bridge inspection experience serving as team leader in various states. He is also an instructor for the NHI Bridge Inspection Training Course.

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).
06/06-06/12	**FHWA Comprehensive Bridge Safety Inspection Training Program and Bridge Inspection Reference Manual, Nationwide.** *Federal Highway Administration.* Instructor. Responsibilities included teaching the two-week course. Michael Baker updated the popular FHWA "Bridge Inspection Training Manual" (BITM) 90 and NHI Course No. 130055 "Safety Inspection of In-Service Bridges" as part of an IDIQ contract. Under a separate task order award, Michael Baker was charged to deliver NHI Course Number 130053A – Bridge Inspection Refresher Training, NHI Course Number 130054A – Engineering Concepts for Bridge Inspectors, NHI Course Number 130055A – Safety Inspection of In-Service Bridges, and NHI Course Number 130078 - Fracture Critical Inspection Techniques for Steel Bridges.
08/08-10/13	**Fort Hill Bridge Six-Year Inspection, Charleston, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Engineer. Inspected the bridge and worked on the load rating of the gusset plates. Inspection included rope access climbing of the girder spans, truss, and the piers. Load rating of the gusset plates was performed using FHWA approved methods. As part of a six-year program, Michael Baker has performed annual in-depth inspections since 2008 of the Fort Hill Bridge, based on the Federal Highway Administration's National Bridge Inspection Standards. The bridge, which Michael Baker designed in 1971, is a steel truss, girder, and concrete-box bridge with a total length of 2,246 feet and a 465-foot main span. It is the most heavily traveled bridge in the state, carrying more than 100,000 vehicles per day on Interstate 64 and U.S. Route 119 over the Kanawha River.
04/11-05/14	**Sherman Minton Bridge Fracture-Critical Inspection, Emergency Repair Design, and Construction-Phase Services, New Albany, Indiana, and Louisville, Kentucky.** *Indiana Department of Transportation.* Inspector. Inspected the overhead arch via climbing and a manlift. Michael Baker conducted a fracture-critical inspection and provided construction management and inspection services for the rehabilitation of the 2,053-foot-long Sherman Minton Bridge, a double-deck tied-arch structure that carries I-64 and U.S. 150 over the Ohio River and connects Louisville, Kentucky, with downtown New Albany, Indiana. Critical defects were discovered in the fracture-critical steel-arch ties, which prompted emergency closure of the structure. Michael Baker recommended global plating of the joints, involving installation of more than 2.4 million pounds of steel reinforcement along the entire length of the bridge tie girders. This solution also provided complete structural redundancy by establishing an alternate load path. The final contract documents were developed and advertised for construction just one week later. The contractor completed the arch tie repairs in just over four months, and the bridge was successfully returned to service.

06/14-05/15	**Biennial Inspection of the U.S. 82 Cable-Stayed Bridge over the Mississippi River, Washington County, Mississippi.** *Mississippi Department of Transportation.* Team Leader. Responsible for field inspection and report for the cable stay bridge. Rappelled the towers and inspected the cables via a 180 foot man lift. Performed the QC Inspection. Michael Baker performed routine and fracture-critical inspection of the U.S. 82 cable stayed bridge over the Mississippi River near Greenville, Mississippi. Michael Baker's services included bridge inspection using under-bridge inspection vehicles, a large man lift, and climbing by Society of Professional Rope Access Technicians-certified inspectors; traffic control; hydrographic survey; and documentation of deficiencies and report preparation, by the latest AASHTO Manual for Bridge Evaluation.
07/15- 07/17	**Inspection of Locally Owned Complex and Fracture-Critical Bridges, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Bridge Inspector. Responsible for inspecting and load rating bridges. Michael Baker provided engineering services for the inspection of 105 locally owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services included project management, the preparation of bridge inspection plans, in-depth and fracture-critical inspections, condition and load ratings, and preparation of inspection reports.
09/17-08/20	**OSARC Statewide Bridge Inspection, Statewide, Mississippi.** *Mississippi Department of Transportation.* Technical Manager. Responsible for inspection and Load Rating of fracture critical and complex bridges. Michael Baker provided inspection and engineering services under multiple contracts for the National Bridge Inventory bridge safety inspections, load rating, and reporting of bridges with varying superstructure types. Michael Baker's services included project management, inspection plan development, routine and in-depth condition and appraisal inspections, load ratings, and the preparation of inspection and load-rating reports. The bridges were located on local road systems owned and maintained by various counties, cities, and towns throughout Mississippi. In all, Michael Baker inspected 1,322 bridges over nine years, from FY 2012 to FY 2020.
07/11-09/24	**PFC Abraham G. Sams Memorial Bridge Replacement, Clay County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Bridge Engineer. Responsible for checking the girder design and performed the load rating for the bridge. Michael Baker provided environmental and engineering services for the replacement of the three-span, 306-foot-long PFC Abraham G. Sams Memorial Bridge (formerly known as the Camp Creek Truss Bridge) that carries C.R. 4/5 over the Elk River. Michael Baker's services included project management, preparation of an environmental assessment and finding of no significant impact; mussel surveys and biological assessment; Section 7 formal consultation for unionidae, or bivalve mussels; surveying; preparation of roadway and structure plans; hydraulic and hydrologic investigation, right-of-way plans, permitting; and public and stakeholder involvement.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Don Harris, PE**		Years of relevant experience with this employer	18	
Title	Department Manager - Structures		Years of relevant experience with other employer(s)	17	
Degree(s) / Years / Specialization			BS / 1998 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer - 82662 / Texas / June 2025		
Year registered	1997	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Team Leader - Above Water Bridge Inspection		

Mr. Harris has extensive experience in the design, inspection, and management of heavy civil and transportation structure projects. These include routine and fracture critical inspections of highway, transit, and aircraft bridges; design of pedestrian, highway, transit, and railroad bridges; multi-level interchanges; retaining walls; pump stations; and warehouse/distribution centers. Additionally, Mr. Harris has performed bridge inspections of historic structures, provided construction inspections, and developed inspection databases and computer programs for a variety of applications.

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).
09/17 – 08/20	**OSARC Statewide Bridge Inspection, Statewide, Mississippi.** *Mississippi Department of Transportation.* Team Leader. Performed routine and complex bridge inspections. Prepared inspection reports. Initiated Critical Findings, created and submitted Critical Finding reports. Provided maintenance and repair recommendations. Michael Baker provided inspection and engineering services under multiple contracts for the National Bridge Inventory bridge safety inspections, load rating, and reporting of bridges with varying superstructure types. Michael Baker's services included project management, inspection plan development, routine and in-depth condition and appraisal inspections, load ratings, and the preparation of inspection and load-rating reports. The bridges were located on local road systems owned and maintained by various counties, cities, and towns throughout Mississippi. In all, Michael Baker inspected 1,322 bridges over nine years, from FY 2012 to FY 2020.
11/21 – 11/22	**Statewide Fracture Critical and Tunnel Inspection IDIQ, Statewide, Texas.** *Texas Department of Transportation.* Subconsultant Project Manager/Team Leader. As a subconsultant, responsible for project planning, safety planning/training, performing inspections and writing reports; managing multiple bridge inspection crews, coordinating traffic control and access equipment; and performs quality control reviews of the bridge inspections and reports. The contract includes fracture critical inspection of bridges throughout Texas over a diverse range on operational environments, including multi-level interchanges, interstate/state highway, toll roads, river, lake crossings, coastal areas and navigable channels. In addition to identifying deficiencies during inspection, Michael Baker updates TxDOT asset management records, recommends maintenance, performs structural analysis/load ratings, and provides traffic control plans.
09/15 – Ongoing	**Statewide Bridge Inspection IDIQ, Statewide, Texas.** *Texas Department of Transportation.* Project Manager/Team Leader. Mr. Harris manages the project planning, safety planning/training, and operations of multiple bridge inspection crews, performs inspections; and performs quality control reviews of bridge inspections and reports. Under four, consecutive, multi-year contracts, his teams executed 29 work authorizations and have inspected over 9800 bridges. Michael Baker provides engineering services for the inspection of bridges located throughout Texas. The contract includes the initial and routine inspection of prestressed concrete beam/girder bridges, reinforced concrete beam bridges, reinforced concrete slab bridges, bridge-class multiple cell box culverts, and steel multi-girder/ beam bridges in a diverse range of operational environments, including multi-level interchanges, interstate/state highways, toll roads, rivers, lake crossings

	coastal areas. The work is performed in accordance with NBI, SNBI, and FHWA 23 Metrics standards. In addition to identifying deficiencies during inspection, Michael Baker updates TxDOT asset management records, recommends maintenance, performs structural analysis/load ratings, and provides TCP.
09/06 – 12/15	**DFW Structural Inspections and Asset Management, Dallas/Fort Worth International Airport (DFWIA), Texas.** *DFWIA.* Project Manager/Team Leader/Quality Manager. Under multiple consecutive contracts as prime consultant, Mr. Harris' responsibilities included project management, safety management, planning/coordination for routine and fracture critical bridge inspections of highway and aircraft bridges, 24/7 on-call emergency inspections, and inspections /recommendations for other infrastructure deterioration. As PM, he managed scope, budget, and schedule, report writing, quality control, field coordination with subcontractors, and coordination with Terminal Operations, Airfield Operations, Skylink Operations, and Dallas Area Rapid Transit. From 2006 to October 2011, he led Michael Baker's subconsultant role providing the same services and advising the prime consultant. Under Michael Baker's final contract, he served as the Quality Manager and provided other inspection support when needed. Michael Baker has provided structural inspection services of the airport's infrastructure, including landside and airside bridges, the 5.8-mile elevated SkyLink guideway (bridge) structure, taxiway bridges, highway bridges and elevated departure roadways, drainage structures, sound walls, retaining walls, runway and taxiway pavement, ancillary structures (sign structures, high mast illumination poles, and various traffic sign structures), parking garages, and various building structures. Responsible for the development of the Skylink Inspection Reference Manual.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Albert Ho, PE**		Years of relevant experience with this employer	11	
Title	Civil Engineer		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BSCE / 2012 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer - 107340 / New York / February 2026 Professional Engineer - PEN.0032459 / Connecticut / January 2025		
Year registered	PE – 2023; 2018	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Team Leader - Above Water Bridge Inspection		

Mr. Ho is a team leader with experience in structural inspections on a variety of bridges and overhead sign structures, primarily in Connecticut and Rhode Island. He drafts and compiles inspection reports and finalizes reports after project manager review. He has also inspected larger bridges over major rivers in various states using rope access techniques.

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).
02/13-07/13	**Inspection of Bridges and Overhead Sign Structures, 2010-2013, Statewide, Connecticut.** *Connecticut Department of Transportation.* Assistant Team Leader. Responsible for assisting team leaders during routine, in-depth and special inspections of various types of bridges. Responsibilities also include assisting the team leader and project manager in drafting and finalizing inspection reports. Also performed field inspections and condition evaluations of overhead sign support structures. Also responsible for writing inspection reports and any calculations included in the report. Under its fifth consecutive inspection contract, Michael Baker will evaluate and prepare reports for bridges and sign structures throughout the state of Connecticut. Michael Baker's tasks include conducting NBIS biennial in-depth and complex, fracture-critical, and movable bridge inspections and analyzing cantilever, full-span, and structure-mounted overhead highway signs and supports. Work entails performing condition ratings, performing and overseeing nondestructive testing, documenting inspection findings, and developing maintenance and protection of traffic plans. Michael Baker will also conduct quality assurance reviews of other consultants' reports on major bridges.
10/18-11/18	**U.S. 84 Bridge Inspection, Natchez, Mississippi.** *Mississippi Department of Transportation.* Bridge Inspector. Utilized rope access methods to inspect the bridge. Michael Baker used a hybrid method of rope access and equipment (man-lifts, under-bridge inspection) to perform a routine and fracture critical inspection of the U.S. 84 truss bridges over the Mississippi River. Michael Baker's services included a full inspection of the bridge, traffic control, a hydrographic survey, and documentation of the deficiencies and report preparation in accordance with the latest AASHTO Manual for Bridge Evaluation.
06/19-06/19	**St. Georges Bridge Inspection Services, St. Georges, Delaware.** *U.S. Army Corps of Engineers, Philadelphia District.* Bridge Inspector. Utilized rope access methods to inspect concrete approach piers. Michael Baker provided bridge inspection services for the St. Georges Bridge over the Chesapeake and Delaware Canal in St Georges, Delaware, under a five-year IDIQ contract. Work included a field inspection and evaluation of the fixed, four-lane, high-level highway crossing over the canal. The field inspection consisted of a routine inspection of the structure with an in-depth, fracture critical member inspection of designated steel tension members. A thorough hands-on visual inspection of the concrete approach piers (Piers 20N to 2N and 21S to 2S) was conducted and existing deficiencies (spalls, delaminations, and cracks) were verified, sounded, measured, and delineated to identify the extent of any deterioration. Deteriorated areas were identified and updated in the inspection report.
09/18-10/19	**Statewide Maintenance Design and Repair Services, Statewide, Kentucky.** *Kentucky Transportation Cabinet.* Bridge Inspector. As a team member, provided hands-on fracture critical inspection on various parts of this bridge. Used rope access techniques to efficiently inspect major parts of the bridge. Michael

	Baker performed a routine and fracture critical inspection of the Daniel Carter Beard Bridge (Big Mac), which carries I-471 between Newport, Kentucky, and Cincinnati, Ohio, using hands-on rope access techniques. The Michael Baker team also provided temporary suspender retrofitting and preliminary analysis of the Simon Kenton Bridge in Mason County, Kentucky.
03/13-10/14	**Bridge Safety Inspection and Load-Rating Services, Statewide, Rhode Island.** *Rhode Island DOT.* Assistant Team Leader. Responsible for performing field inspections and condition evaluations of overhead sign support structures. Also responsible for writing inspection reports and any calculations included in the report. Michael Baker performed inspection services for bridges throughout Rhode Island as part of the Statewide Bridge Inspection Services Master Price Agreement project. Michael Baker performed inspections on more than 800 bridges and load ratings on more than 300. Additionally, it co-authored the Rhode Island Department of Transportation (RIDOT) Bridge Inspection Manual in partnership with RIDOT bridge engineering staff and has developed repair sketches for emergency repairs of deficiencies discovered during its inspections. Michael Baker has held this contract since 2009. During its current five-year assignment, it has performed numerous investigations, including initial and routine inspections, damage inspections, in-depth inspections, and special interim inspections. Structure types include steel and concrete multi-girder, steel trusses, concrete slabs and arches, pre-stressed concrete, stone masonry arches, network tied arches, and timber bridges.
07/19-09/19	**Metropolitan Transportation Authority Bronx-Whitestone Bridge Inspection, New York City, New York.** *The Thornton-Tomasetti Group, Inc.* Bridge Inspector. Utilized rope access methods to inspect suspender rope groups and towers. Michael Baker provided bridge inspection services for the Bronx-Whitestone Bridge, which included inspection of the 12 suspender hangers spread throughout the structure. The 3,700-foot-long Bronx-Whitestone Bridge is a suspension bridge carrying six lanes of Interstate 678 over the East River. The bridge connects Throggs Neck and Ferry Point Park in the Bronx, on the East River's northern shore, with the Whitestone neighborhood of Queens on the southern shore.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Joseph Brach, CBI, SPRAT III**		Years of relevant experience with this employer	14	
Title	Technical Specialist- Structures		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS, 2010 / Civil Engineering / Widener University		
Active registration number / state / expiration date			Professional Engineer - 13784 / Rhode Island / June 2025		
Year registered	2021	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Team Leader - Above Water Bridge Inspection; Design Services & Load Rating		

Mr. Brach supports Michael Baker's National Bridge Inspection group. He has spent time inspecting bridges country-wide, in approximately 20 states. Mr. Brach is an instructor for the Pennsylvania Department of Transportation (PennDOT) Basic Bridge Inspection Course as well as the PennDOT Bridge Inspection Refresher Course. Mr. Brach has experience inspecting a wide range of structures from small culverts (arch and box) to multi-span simple bridges (steel arch, concrete arch, girders, box beams, I-beams, concrete, and trusses), along with large/complex structures such as cable stays, tied arches, suspension bridges, and trusses. He has also written technical reports and performed load ratings to accompany the inspections. Mr. Brach has been using his rope access skills on bridge inspections as well as inspecting building facades.

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).
09/18-10/18	**Veterans Memorial Bridge Six-Year Inspection Program, Weirton, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Bridge Inspector. As the rope access site supervisor (SPRAT Level 3), responsible for ensuring a safe working environment for all inspectors utilizing rope access techniques. Assisted in performing the inspection of the cable stay structure both inside the tower and on the cables. As part of a six-year program, Michael Baker has performed annual inspections since 2018 on the Veterans Memorial Bridge, based on the Federal Highway Administration's National Bridge Inspection Standards. The six-year inspection program includes routine, special, and in-depth routine levels of inspection. In 2020, the third year of the inspection cycle, Michael Baker conducted a magnetic flux leakage (MFL) inspection utilizing a subconsultant, Structural Technologies. An MFL inspection is a non-destructive method to test or scan the stay cables for any areas indicating wire strand breakage inside the cables.
07/20-Ongoing	**Bridge Inspection and Evaluation Engineering Services, Statewide, South Carolina.** *South Carolina Department of Transportation.* Bridge Inspector. Team leader responsible for completing both routine simple and complex bridge inspections. Some complex inspections were completed utilizing rope access skills. Also wrote the reports associated with the structures he inspected. Michael Baker is providing bridge inspection and engineering evaluation services in support of a statewide, consultant-led, bridge inspection effort for higher priority bridges across South Carolina. The bridges included in this contract encompass interstate system bridges, bridges over railroads, underwater inspections, and bridges with more challenging access needs.
02/17-06/17	**Hernando de Soto Bridge Inspection, West Memphis, Arkansas, and Memphis, Tennessee.** *Arkansas Department of Transportation.* Bridge Inspector. Assisted in preparing safety plans, rope access plans, and overall pre-project planning. Once upon site, performed hands-on inspection of all fracture critical members utilizing rope access (SPRAT) techniques in combination with a power seat. Upon completing this inspection, also assisted in writing the technical report that was submitted to the client. Michael Baker performed a hands-on structural inspection of the two main arch truss spans of the Hernando DeSoto Bridge, which carries I-40 over the Mississippi River. Michael Baker's services included project management; document review; lane closure plans; access plans; safety plans; physical inspection, including limited nondestructive testing; and inspection report preparation.

02/12-02/12	**Complex and Fracture Critical Bridge Inspections, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Bridge Inspector. Team leader for field work to perform federally required inspections to the OSARC complex structures. In addition to the field work, also wrote the technical inspection reports and performed load ratings for the structures. Michael Baker provided engineering services under multiple contracts for the inspection of locally-owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services included project management; inspection plan development; in-depth condition, appraisal, and fracture-critical inspections; load ratings; and preparation of inspection and load-rating reports. The number of bridges inspected in the multiple contracts were: 1) FY 2018 & 2019 – 166 bridges; 2) FY 2016 & 2017 – 107 bridges; 3) FY 2014 & 2015 – 101 bridges; and 4) FY 2012 & 2013 – 194 bridges.
11/17-11/17	**Statewide Bridge Inspection Contract, Texas.** *Texas Department of Transportation.* Site Manager. Level 3 SPRAT Site Supervisor who assisted a subcontractor in managing, instructing, and performing the field inspection of simple span trusses via rope access methods. Michael Baker performed routine monthly inspections of bridges and culverts for the Texas Department of Transportation (TxDOT) in various districts. It inspected each structure to assess its overall condition and determine whether it was sufficient to carry traffic safely. Follow-up action items were recorded for each structure requiring repair or rehabilitation. In addition, Michael Baker prepared plans, specifications, and estimates for the repairs. It also added newly completed structures to TxDOT's structure database and completed associated inspection reports and forms.
05/21-06/21	**I-40 Mississippi River Bridge Inspection, Memphis, Tennessee.** *Arkansas Department of Transportation.* Bridge Inspector. SPRAT Level 3 site supervisor for the bridge inspection of the Hernando De Soto Bridge. Performed inspection activities as well as rigging services for his team. Michael Baker provided a fracture-critical inspection of the main arch-truss spans on the I-40 Mississippi River Bridge in Memphis, Tennessee. Work included the above-deck elements, utilizing rope access inspection techniques, as well as UAS. Subconsultant Fickett Structural Solutions provided QA inspection. After the discovery of a critical finding in the steel tie-girder and subsequent shutdown of the bridge, the project expanded to include remobilization and completion of inspection after the Phase I repairs were complete. Fickett Structural Solutions was retained to assist with extensive nondestructive testing. Subconsultant WJE was also involved to perform a forensic investigation on the fracture surface and to test additional anomalies found in the tie-girder.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Adam Wriston, PE, CBI**		Years of relevant experience with this employer	18	
Title	Bridge Inspector		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			MSCE / 2008 / Civil Engineering BSCE / 2007 / Civil Engineering		
Active registration number / state / expiration date			PE 019511 / West Virginia / December 2024		
Year registered	2011	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Assistant Team Leader - Above Water Bridge Inspection Design Services & Load Rating		

Mr. Wriston has experience in structural analysis, bridge design, bridge inspection, and bridge load rating. His analysis experience includes 3D modeling of complex bridges. He has bridge design and detailing experience with superstructure and substructure components, including bridge decks, primary and secondary superstructure members, and various types of substructures. He has inspected various types of bridges, including concrete and steel multi-girder, steel truss, cable-stayed, timber and steel railroad bridges, and many less conventional structure types. Mr. Wriston has performed load rating calculations for timber and steel multi-girder bridges, floorbeam-stringer systems, steel trusses (including gusset plates), military panel-style bridges, railroad flatcars converted into superstructures, and various types of concrete beam 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).
08/05-12/10	**Veteran's Memorial Six-Year Bridge Inspection 2005-10, Route 22 over the Ohio River, Weirton and Brooke, West Virginia, Steubenville, Ohio.** *West Virginia Department of Transportation, Division of Highways.* Bridge Inspector. Responsible for inspection of various structural components. Michael Baker was selected by the West Virginia Division of Highways (WVDOH) to provide bridge inspection and load rating services per NBIS and WVDOH standards. The project is 6 years in length with an inspection required every year from 2005 through 2010.
11/10-05/11	**Group 4 Bridge Inspections, Logan, Mingo, and Wayne County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Bridge Inspector. Responsibilities included in-depth bridge inspection, writing of inspection reports, and quality control/quality assurance of load rating calculations. Michael Baker performed in-depth periodic inspections of six bridges. Michael Baker's services included coordination of inspection access, superstructure and substructure inspection and documentation, channel soundings, inventory and operating load ratings, and report preparation.
09/11-05/12	**Complex Bridge Inspection and Load Rating, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Bridge Inspector. Responsibilities included bridge inspection, inspection report writing, and load rating for 17 structures. Michael Baker provided engineering services for the inspection of 139 locally-owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services included project management; inspection plan development; in-depth condition, appraisal, and fracture-critical inspections; load ratings; and preparation of inspection and load-rating reports.
07/12-06/17	**Fracture-Critical Inspection of Five Bridges, Tennessee and Kentucky.** *Kentucky Transportation Cabinet.* Bridge Inspector. Responsible for inspection of fracture critical bridge elements including nondestructive testing (magnetic particle) as part of a rope access inspection team. Michael Baker conducted fracture-critical inspections of five complex, long span truss bridges over the Ohio River. The trusses were comprised of riveted and welded construction, including T-1 steel. Rope access and climbing techniques were utilized to gain access to the various components of the bridges.
05/14-07/15	**Hernando de Soto Bridge Inspection, West Memphis, Arkansas, and Memphis, Tennessee.** *Arkansas Department of Transportation.* Bridge Inspector. Responsible for rope-access inspection of all superstructure components of the bridge. Worked as part of a team of inspectors using rope-access

	climbing techniques to perform visual inspection and nondestructive testing of all arch members, cables, anchorages, floorbeams, and braces. Michael Baker performed a hands-on structural inspection of the two main arch truss spans of the Hernando DeSoto Bridge, which carries I-40 over the Mississippi River. Michael Baker's services included project management; document review; lane closure plans; access plans; safety plans; physical inspection, including limited nondestructive testing; and inspection report preparation.
09/11-10/19	**Complex and Fracture Critical Bridge Inspections, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Bridge Inspector. Responsibilities included bridge inspection, inspection report writing, and load rating for 17 structures. Michael Baker provided engineering services under multiple contracts for the inspection of locally-owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services included project management; inspection plan development; in-depth condition, appraisal, and fracture-critical inspections; load ratings; and preparation of inspection and load-rating reports. The number of bridges inspected in the multiple contracts were: 1) FY 2018 & 2019 – 166 bridges; 2) FY 2016 & 2017 – 107 bridges; 3) FY 2014 & 2015 – 101 bridges; and 4) FY 2012 & 2013 – 194 bridges.
08/14-05/20	**Eugene A. Carter Memorial Bridge Six-Year Inspection Program, Kanawha County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Bridge Inspector. Responsible for inspection access and safety planning, subcontractor coordination, inspection of all bridge components, and inspection report writing. Under a six-year agreement, Michael Baker conducted in-depth, periodic, and interim inspections of the Eugene A. Carter Memorial Bridge, also known as the Fort Hill Bridge. A periodic inspection of four exit/entrance ramps was also included. Michael Baker's services included project management, hands-on bridge inspections in accordance with various state and federal bridge inspection standards, preparation of a stream channel profile, oversight of traffic control and inspection access by a subcontractor, and preparation of detailed inspection reports.
05/16-06/20	**Statewide Fracture-Critical Bridge Inspection, Statewide, Kentucky.** *Kentucky Transportation Cabinet.* Bridge Inspector. Responsible for inspection of fracture critical bridge elements including nondestructive testing (magnetic particle) as part of a rope access inspection team. Michael Baker conducted fracture-critical inspections of five complex, long span truss bridges over the Ohio River. The trusses are comprised of riveted and welded construction, including T-1 steel. Rope access and climbing techniques were used to gain access to the various components of the bridges.
05/13-06/24	**Railroad Bridge Inspections, Statewide, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Bridge Inspector. Responsible for the structural inspection and scour evaluation of 26 railroad bridges. Performed load rating tasks for timber, steel, and prestressed concrete railroad bridge superstructures. Michael Baker performed annual inspections of 78 railroad bridges and a tunnel along the mainline track of the West Virginia Central Railroad outside of Elkins, railroad bridges on the South Branch Valley Line, the Durbin Greenbrier Valley line, the Coalton line, and the Cass Rail Line. Michael Baker's services included comprehensive hands-on inspections of the structures, preparation of detailed inspection reports, and load rating of the structures when necessary.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Michael Jakiel**		Years of relevant experience with this employer	24	
Title	Bridge Inspection Specialist		Years of relevant experience with other employer(s)	32	
Degree(s) / Years / Specialization			BS / 1991 / Civil Engineering Technology		
Active registration number / state / expiration date					
Year registered		Discipline	Bridge Inspection		
Contract role(s) / brief description of responsibilities			Assistant Team Leader - Above Water Bridge Inspection		

Mr. Jakiel is a Team Leader/Coordinator/Safety Coordinator for structural projects, almost exclusively bridge inspection, overhead sign inspection, mast-arm inspection, reporting, and load rating projects in the Northeast, Florida, Wisconsin, Kentucky, and Mississippi. Responsibilities have included project coordination, presentations, planning, safety, scheduling, and coordination of vendor equipment and subconsultants. Technical responsibilities have included bridge, sign, tunnel, mast-arm inspection and light pole inspection, testing and reporting; load rating; and design.

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).
07/13 – 07/15	**Complex and Fracture-Critical Bridge Inspections, Statewide, Mississippi.** *MDOT/State Aid Road Construction. Team Leader.* Responsible for leading bridge inspections, authoring reports, and QC of reports. Michael Baker is providing engineering services for the inspection of 101 locally owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services include project management; the preparation of bridge inspection plans; condition, appraisal, and fracture-critical inspections; load ratings; and the preparation of inspection and load rating reports.
07/09 – 10/16	**Zoo Interchange Bridge Inspections and Analysis, Milwaukee, Wisconsin.** *Wisconsin Department of Transportation. Team Leader.* Responsible for inspection and local coordination. Michael Baker performed in-depth inspections, including advanced structural analysis and material testing, for three concrete box girder bridges, and cursory inspections for three other bridges, located within the Zoo Interchange. For the concrete box girder bridges, Michael Baker performed in-depth bridge inspections, three-dimensional finite element analyses, and load ratings; and proposed numerous rehabilitations and/or replacement alternatives. This high-profile project was completed on an aggressive schedule.
07/12 – 06/17	**Fracture-Critical Inspection of Five Bridges, Tennessee and Kentucky.** *Kentucky Transportation Cabinet. Team Leader.* Team Leader responsible for Bridge inspection using variable types of inspection/under bridge inspection equipment. Michael Baker conducted fracture-critical inspections of five complex, long span truss bridges over the Ohio River. The trusses were comprised of riveted and welded construction, including T-1 steel. Rope access and climbing techniques were utilized to gain access to the various components of the bridges.
08/07 – 07/17	**Inspection of Bridges and Sign Structures, Statewide, Connecticut.** *Connecticut Department of Transportation. Team Leader.* Responsible for planning, coordinating, leading bridge inspections, and authoring reports. Within this inspection contract, Michael Baker was responsible for the inspection of four different types of structures, which included highway bridges, signs, mast-arms, and underwater. Michael Baker performed approximately 400 biennial bridge safety inspections per National Bridge Inspection Standards (NBIS) throughout the state of Connecticut including complex, in-depth, fracture-critical, and movable bridges.
05/12 – 09/19	**Agency Wide Bridge Inspection and Rating, Boston, Massachusetts.** *Massachusetts Bay Transportation Authority. Team Leader.* Team Leader responsible for coordination and bridge inspection using variable types of inspection/under bridge inspection equipment. Michael Baker provided bridge rating, bridge

	inspection, and agency coordination. Each in-depth bridge inspection was conducted using National Bridge Inspections Standards supplemented by the Massachusetts Bay Transportation Authority Commuter Rail Design Standards. Detailed, hands-on inspections were made of critical areas, fracture-critical members, and fatigue-prone details.
08/09 – 03/21	**Bridge Safety Inspection and Load-Rating Services, Statewide, Rhode Island.** *Rhode Island DOT. Team Leader.* Team Leader responsible for coordination and bridge inspection using variable types of inspection/under bridge inspection equipment. Michael Baker performed inspection services for bridges throughout Rhode Island as part of the Statewide Bridge Inspection Services Master Price Agreement project. Michael Baker performed inspections on more than 800 bridges and load ratings on more than 300. Additionally, it co-authored the Rhode Island Department of Transportation (RIDOT) Bridge Inspection Manual in partnership with RIDOT bridge engineering staff and has developed repair sketches for emergency repairs of deficiencies discovered during its inspections. Michael Baker has held this contract since 2009. During its current five-year assignment, it has performed numerous investigations, including initial and routine inspections, damage inspections, in-depth inspections, and special interim inspections. Structure types include steel and concrete multi-girder, steel trusses, concrete slabs and arches, pre-stressed concrete, stone masonry arches, network tied arches, and timber bridges.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Daniel Fint, PE**		Years of relevant experience with this employer	26	
Title	Bridge Inspector		Years of relevant experience with other employer(s)	1	
Degree(s) / Years / Specialization			BS / 1998 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer - 015428 / West Virginia / December 2024		
Year registered	2003	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Assistant Team Leader - Above Water Bridge Inspection		

Mr. Fint serves as highway department manager in Michael Baker's Charleston, West Virginia office. He has extensive project management and highway engineering experience that includes every aspect of highway design, and plan preparation. He is cognizant of scheduling and cost, quality assurance, public outreach and coordination with various stakeholders.

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).
02/00-09/05	**New River Gorge Six-Year Bridge Inspection, Fayetteville, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Civil Engineer. Participated in the 2005 Interim Inspection of the arch bridge and assisted in compiling the Inspection Report. Michael Baker performed an in-depth inspection of the New River Gorge Bridge, which carries Route 19 over the New River. Michael Baker's services included corrosion monitoring, extensive rigging and free-climbing, and other specialized access methods. The New River Gorge Bridge has appeared in various media advertisements, it carries West Virginia Route 19 over the New River in Fayette County, West Virginia. It is one of the longest arch bridges in the world and is eight hundred feet above the New River.
10/07-11/07	**I-80 Emergency Bridge Inspections, I-80 Emlenton, Deer Creek, and Clarion River Bridges, Pennsylvania.** *Pennsylvania Department of Transportation, District 10-0.* Civil Engineer. Participated in the inspection of three deck trusses. Michael Baker provided emergency in-depth, fracture critical inspections on three major steel deck truss bridges located on I-80, Clarion County, Pennsylvania for PennDOT District 10-0. These inspections were performed in accordance with the Emergency Declaration of August 10, 2007 following the sudden collapse of a similar deck truss bridge in Minnesota on August 1, 2007.
09/11-03/13	**Complex Bridge Inspection and Load Rating, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Bridge Inspector. Responsibilities included bridge inspection team leader, as well as report writing. Michael Baker provided engineering services for the inspection of 139 locally-owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services included project management; inspection plan development; in-depth condition, appraisal, and fracture-critical inspections; load ratings; and preparation of inspection and load-rating reports.
10/13-10/13	**Complex and Fracture-Critical Bridge Inspections, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Bridge Inspector. Responsible for field inspection of dozens of different types and sizes of bridges for OSARC. Michael Baker is providing engineering services for the inspection of 101 locally-owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services include project management; the preparation of bridge inspection plans; condition, appraisal, and fracture-critical inspections; load ratings; and the preparation of inspection and load rating reports
06/08-12/08	**Fort Worth District Indefinite Delivery AE Contract for Multidiscipline Services, Texas, New Mexico, Arizona, and California.** *U.S. Army Corps of Engineers, Fort Worth District.* Civil Engineer. Responsibilities included development of line and grade for construction access and staging in very rugged terrain. Michael Baker provided all aspects of design and program management to the Engineering, Construction, and Support Office (ECSO) and Fort Worth District supporting Department of Homeland Security (DHS) Customs and Border Protection (CBP) and United States Visitor and Immigrant Status Indicator Technology (US-VISIT) construction at a wide variety of sites in Texas, Arizona, New Mexico, and California along the U.S. - Mexico border. This highly visible

	initiative placed pressure on Fort Worth District to rapidly plan and execute three separate initiatives: the planning, design, and construction of 225 miles of border fence (PF 225), 300 miles of vehicle fence (VF 300), and 70 miles of expedited military construction of anti-personal barrier (P70) at various locations in Texas, Arizona, New Mexico, and California. Together, the initiatives represented the largest single CBP tactical infrastructure project in U.S. history.
10/13-01/15	**S.R. 63 Bridge over the Escatawpa River and I-20 Bridges over Valley Street In-Depth Inspections, Jackson and Hinds Counties, Mississippi.** *Mississippi Department of Transportation.* Bridge Inspector. Responsibilities included field inspection of fatigue prone details and testing and documenting cracks. Michael Baker performed in-depth inspections of fatigue-prone steel girders on the S.R. 63 bridge over the Escatawpa River and the dual I- 20 bridges over Valley Street. Michael Baker's services included under-bridge access, traffic control, and location and documentation of all cracks in the girders, stiffeners, diaphragms, cross frames, welds, and connections of the bridges, in accordance with the latest AASHTO.
07/14-01/15	**Biennial Inspection of the U.S. 82 Cable-Stayed Bridge over the Mississippi River, Washington County, Mississippi.** *Mississippi Department of Transportation.* Bridge Inspector. Responsible for assisting in the field inspection activities and report preparation. Michael Baker performed routine and fracture-critical inspection of the U.S. 82 cable stayed bridge over the Mississippi River near Greenville, Mississippi. Michael Baker's services included bridge inspection using under-bridge inspection vehicles, a large man lift, and climbing by Society of Professional Rope Access Technicians-certified inspectors; traffic control; hydrographic survey; and documentation of deficiencies and report preparation, in accordance with the latest AASHTO Manual for Bridge Evaluation. (141974)
09/11 – 10/19	**Complex and Fracture Critical Bridge Inspections, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Bridge Inspector. Responsibilities included bridge inspection team leader, as well as report writing. Michael Baker provided engineering services under multiple contracts for the inspection of locally-owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services included project management; inspection plan development; in-depth condition, appraisal, and fracture-critical inspections; load ratings; and preparation of inspection and load-rating reports. The number of bridges inspected in the multiple contracts were: 1) FY 2018 & 2019 – ongoing; BR-NBIS-(088) (increased to 9 inspection teams) 2) FY 2016 & 2017 – 105 bridges; (AGMT BR-NBIS (086)B); 3) FY 2014 & 2015 – 101 bridges (AGMT S-BR-NBIS(080)B); 4) FY 2012 & 2013 – 139 bridges (AGMT S-BR-NBIS(077)B).

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Jesus Armendariz**		Years of relevant experience with this employer	10	
Title	Senior Bridge Inspector		Years of relevant experience with other employer(s)	30	
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			Team Leader - Above Water Bridge Inspection		

Mr. Armendariz joined Michael Baker after an extensive career with the Texas Department of Transportation (TxDOT) as a Transportation Specialist. As a TxDOT employee, he most recently worked as the Fort Worth District Bridge Programming Coordinator. Prior service with TxDOT included Bridge Inspection Coordinator, Bridge Preventive Maintenance Coordinator, Bridge Inspection Contract Administrator, and Preliminary Bridge Plan Reviewer. Mr. Armendariz provided in-house bridge safety inspections for Ft. Worth and El Paso Districts and inspected 3,900 structures in Ft. Worth and 1,400 structures in El Paso every 24 months. Mr. Armendariz performed numerous Damage inspections and Post flood inspections across the state of Texas. He has extensive experience as a member of the Texas Emergency Response Team, traveling the state responding to natural disasters to perform flood inspections on damaged or threatened bridges. He was on call 24/7 for all bridge hits in the Fort Worth District during his long tenure as a TxDOT employee. He is a Certified Bridge Safety Inspector, Fracture Critical Inspector, Aerial Bridge Inspection Equipment Operator, and Bucket Truck Operator. He has training in Safety Inspection of In-Service Bridges, Inspection Fracture Critical Bridge Members, Homeland Security Training, and numerous bridge and management courses.

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).
09/12-07/15	**Off-System Fracture Critical Truss Inspections, Various Counties, Oklahoma.** *Oklahoma DOT.* Bridge Inspector. Conducted In-Depth Fracture Critical Inspections of 10 Truss structures in Oklahoma. Michael Baker is performing in-depth and fracture-critical NBIS inspections for 38 truss bridges in various counties throughout the state. Michael Baker provides an NBIS program manager to oversee the inspection work. Michael Baker provides bridge inspection reports and Pontis updates following each inspection and updates live load ratings and scour plans as needed. Michael Baker also maintains close coordination with the various County Commissioners that own the bridges.
01/16-07/16	**Tyler District Bridge Inspections, Texas.** *Texas Department of Transportation.* Team Leader. Inspected bridges and wrote inspection reports. Michael Baker provided routine safety inspections of bridge conditions aided by routine inspection tools and means of access, including photo documentation, scour evaluation, load rating, and evaluation of features such as alignment, waterway adequacy, and approach guardrails. Bridge types included prestressed concrete girders, steel girders, reinforced concrete girders, slab girders, trusses, and metal and concrete culverts in urban and remote rural locations.
02/15-09/17	**Bridge Inspection Services, Texas.** *Texas Department of Transportation.* Team Leader. Inspected bridges and wrote inspection reports. Under a two-year indefinite-delivery contract (IDC), Michael Baker provided inspection of bridge structures in various counties. Services included routine safety inspections of bridge conditions aided by routine inspection tools and means of access, photo-documentation, evaluation of scour, load rating, and evaluation of features such as alignment, waterway adequacy, and approach guardrails. Bridge types included prestressed concrete girders, steel girders, reinforced concrete girders, slab girders, trusses, and metal and concrete culverts in urban and remote rural locations.

03/16-01/20	**Statewide Bridge Inspection Contract, Texas.** *Texas Department of Transportation.* Team Leader. Inspected bridges and wrote inspection reports. Michael Baker performed routine monthly inspections of bridges and culverts for the Texas Department of Transportation (TxDOT) in various districts. It inspected each structure to assess its overall condition and determine whether it was sufficient to carry traffic safely. Follow-up action items were recorded for each structure requiring repair or rehabilitation. In addition, Michael Baker prepared plans, specifications, and estimates for the repairs. It also added newly completed structures to TxDOT's structure database and completed associated inspection reports and forms.
09/17-08/20	**OSARC Statewide Bridge Inspection, Statewide, Mississippi.** *Mississippi Department of Transportation.* Building Inspector. Inspected bridges and wrote inspection reports. Michael Baker provided inspection and engineering services under multiple contracts for the National Bridge Inventory bridge safety inspections, load rating, and reporting of bridges with varying superstructure types. Michael Baker's services included project management, inspection plan development, routine and in-depth condition and appraisal inspections, load ratings, and the preparation of inspection and load-rating reports. The bridges were located on local road systems owned and maintained by various counties, cities, and towns throughout Mississippi. In all, Michael Baker inspected 1,322 bridges over nine years, from FY 2012 to FY 2020.
10/19-11/20	**TxDOT Paris District Bridge Inspections, Multiple Counties, Texas.** *Texas Department of Transportation.* Team Leader. Inspected bridges and wrote inspection reports. Michael Baker provided engineering services for inspecting bridges owned and maintained by the Texas Department of Transportation's Paris District. The contract included the initial and routine inspection of 426 bridges in Fannin, Grayson, Hunt, Rains, and Red River Counties. Bridge types entailed prestressed concrete beam or girder bridges, reinforced concrete T-beam bridges, reinforced concrete slab bridges, single or multiple box culverts, and steel multi-girder or -beams bridges. For the project, Michael Baker performed structural inspections and load ratings, identified and documented structural deficiencies, and provided traffic control plans where necessary.
09/15 – 08/20	**DFW Structural Inspections and Asset Management, Dallas/Fort Worth International Airport (DFWIA), Texas.** *DFWIA.* Team Leader. Responsible for inspection planning, safety planning/training, inspection, operation of inspection crews, and quality control reviews of the bridge inspections and reports for routine and fracture critical bridge inspections; 24/7 on-call emergency inspections; and inspections/recommendations for other infrastructure deterioration. Michael Baker provided structural inspection services of the airport's infrastructure, including landside and airside bridges, the 5.8-mile elevated SkyLink guideway (bridge) structure, taxiway bridges, highway bridges and elevated departure roadways, drainage structures, sound walls, retaining walls, runway and taxiway pavement, ancillary structures (sign structures, high mast illumination poles, and various traffic sign structures), parking garages, and various building structures.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Timothy Franciosa, PE**		Years of relevant experience with this employer	3	
Title	Project Manager- Bridge		Years of relevant experience with other employer(s)	11	
Degree(s) / Years / Specialization			BS / 2010 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer - 51817 / Massachusetts / June 2024 Professional Engineer - 12932 / Rhode Island / May 2025		
Year registered	2015	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Assistant Team Leader - Above Water Bridge Inspection		

Mr. Franciosa is a seasoned structural engineer with varied experience including serving as project manager/team leader of simple and complex, tunnel and bridge inspections, project management of bridge rehabilitation projects, serving as resident engineer overseeing bridge replacements and rehabilitations. He independently evaluates and applies standard engineering techniques and criteria, and applies sound and diversified engineering practices and principles in broad area of assignments.

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 - Ongoing	**Bridge Inspection and Load Rating Quality Assurance, Statewide, Montana.** *Montana Department of Transportation.* Structural Engineer. Responsible for writing manual sections for MDT. Michael Baker is providing statewide bridge inspection and load rating services under a bridge inspection and load rating program. The project includes quality assurance reviews of 150 bridge inspection reports, field reviews of 60 field inspections, review and update of the Montana Department of Transportation (MDT) Bridge Inspection and Rating Manual (BIRM), review of the MDT load rating program, scoping changes to the load rating program and manual, developing QA summary reports for individuals district-wide and statewide, generating the state bridge engineer's letter, and developing year-end training based on the QA reviews for the year.
08/21-08/24	**Inspection and Rating of MBTA's Systemwide Tunnels, Massachusetts.** *Massachusetts Bay Transportation Authority.* Project Manager. Responsible for managing the inspection of Blue Line Tunnel in Boston, Massachusetts. Michael Baker is providing professional and engineering services in support of the Massachusetts Bay Transportation Authority's Tunnel Management Program and FTA requirements. Michael Baker is conducting safety inspections to determine the condition and load rating of the tunnels and providing recommendations for the repair and maintenance of the structures. Inspection types include initial inspection, routine all-item, special member, overhead, damage and emergency inspections, and tunnel load rating. Tasks include conducting inspection and condition state rating of tunnel elements, load rating of tunnel elements, and identifying and reporting on critical elements encountered during inspections. Michael Baker is also updating the MBTA Rail Transit Tunnel Inspection Manual to include requirements for inspection of commuter rail tunnels per FRA requirements.
10/14-12/21	**Ruggles Station Elevator Replacement Design, Boston, Massachusetts.** *Massachusetts Bay Transportation Authority.* Structural Engineer. Responsible for leading the inspection and response to contractor's request for information. Michael Baker is part of a multi-disciplinary team of designers organized to develop construction documents for the new 800-foot-long high-level platform that will serve passengers at Massachusetts Bay Transportation Authority's (MBTA) Ruggles Station. The Michael Baker scope involves the rehabilitation of four existing hydraulic elevators to the Ruggles Station platforms, to the busway, and to the street level at the edge of the Northeastern University campus and a new elevator to provide redundant elevator access to the busway, thereby meeting the goals of MBTA's Systemwide Accessibility unit. Michael Baker is responsible for architectural, structural, mechanical, and electrical services on this project as a subconsultant.

07/20-10/22	**Central Artery Tunnel Inspection Services, Boston, Massachusetts.** *Massachusetts Department of Transportation.* Team Leader. Responsible for report review. Michael Baker provided inspection services for the tunnels of Boston's Central Artery. Michael Baker performed inspection services for various segments of the depressed highway, which ranks among the nation's largest and most complex urban transportation projects, under a multimillion-dollar, four-year contract. The inspections were necessary to comply with federal and state requirements and to address noted structural or functional deficiencies.
(01/18-04/20)	**Group #17 Bridge Preservation Contract, Statewide, Massachusetts.** *Massachusetts Department of Transportation.* Project Manager. Prepared Work Breakdown Structure (WBS) and Scope. Assigned tasks and oversaw multi-disciplinary staff. Managed budget and client relations. Deputy Project Manager and Team leader for complex bridge and tunnel inspection at initial, routine, special member, damage and rating level. Submitted reports using MassDOT Bridge Inspection Management System (4D) and RIDOT AASHTOware Bridge Management System. Compiled cost proposals for bridge inspection assignments. Scheduled staff, subconsultants, equipment, traffic closures and details. Working knowledge with RIDOT Bridge Inspection Manual and AASHTO Manual for Bridge Element Inspection.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Shawn Watrous, PE**		Years of relevant experience with this employer	14	
Title	Civil Engineer		Years of relevant experience with other employer(s)	10	
Degree(s) / Years / Specialization			BS / 2000 / Civil Engineering		
Active registration number / state / expiration date			12165 / Rhode Island / June 2025		
Year registered	2017	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Assistant Team Leader - Above Water Bridge Inspection		

Mr. Watrous' experience includes the rating and inspection of various types of highway bridges ranging from small local bridges to large complex structures, railroad bridges, overhead sign supports, tunnels, mast arms, and catenary towers. His project responsibilities have included performing load ratings, field inspection work, report preparation, QA/QC of inspection reports, cost proposals, CADD drawing preparation and project management. Mr. Watrous also has construction inspection experience, including nuclear density testing of soil and asphalt.

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).
4/21-Ongoing	**Bridge Inspection and Load Rating Quality Assurance, Statewide, Montana.** *Montana Department of Transportation.* Project Engineer. Responsible for performing QC reviews for DOT and consultant inspection reports. Michael Baker is providing statewide bridge inspection and load rating services under a bridge inspection and load rating program. The project includes quality assurance reviews of 150 bridge inspection reports, field reviews of 60 field inspections, review and update of the Montana Department of Transportation (MDT) Bridge Inspection and Rating Manual (BIRM), review of the MDT load rating program, scoping changes to the load rating program and manual, developing QA summary reports for individuals district-wide and statewide, generating the state bridge engineer's letter, and developing year-end training based on the QA reviews for the year.
07/08-01/09	**2005-2008 Complete & Underwater Bridge Inspection, Statewide, Connecticut.** *Connecticut Department of Transportation.* Team Leader. Responsible for safety inspection and reporting of highway bridges over waterways. Michael Baker performed routine and in-depth inspections for approximately 60 bridges around the State of Connecticut as a subconsultant to McLaren Engineering Group. Michael Baker provided a team leader with a dive crew from McLaren to perform the bridge inspections. Michael Baker then prepared and finalized the entire bridge inspection report, including the required underwater CADD sketches.
09/18-09/18	**MDOT Railroad Bridge Inspections and Ratings Project, Statewide, Michigan.** *Michigan Department of Transportation.* Load Rater. Responsible for checking/reviewing a load rating analysis for a railroad culvert. Michael Baker provided engineering services for detailed inspections and load ratings of 28 railroad bridges owned by the Michigan Department of Transportation. The inspections were performed in accordance with the NBIS and load ratings completed in accordance with the American Railway Engineering and Maintenance-of-Way Association (AREMA). Michael Baker rated each bridge for Cooper E-80 loading and 286k car loading at speeds ranging from 10 to 40 miles per hour. For each bridge, Michael Baker created a bridge inspection report summarizing the bridge description, condition, rating, recommendations for repairs, and cost estimates for improvements. Bridge types ranged from steel truss spans to steel through-plate girder spans, steel deck beam spans, timber spans, and a masonry arch structure. Michael Baker inspected three of the 28 bridges using SPRAT Access.
09/11-Ongoing	**Complex and Fracture Critical Bridge Inspections, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Team Leader. Responsible for performing load ratings of complex bridges using rating software. Michael Baker provided engineering services under multiple contracts for the inspection of locally owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services included project management; inspection plan development; in-depth condition, appraisal, and fracture-critical inspections; load ratings; and preparation of inspection and load-rating reports. The number of

	bridges inspected in the multiple contracts were: 1) FY 2018 & 2019 – 166 bridges; 2) FY 2016 & 2017 – 107 bridges; 3) FY 2014 & 2015 – 101 bridges; and 4) FY 2012 & 2013 – 194 bridges.
10/09-12/14	**Bridge Safety Inspection and Load-Rating Services, Statewide, Rhode Island.** *Rhode Island DOT.* Team Leader. Responsible for performing load ratings of complex bridges using rating software and making site visits to verify plans. Michael Baker performed inspection services for bridges throughout Rhode Island as part of the Statewide Bridge Inspection Services Master Price Agreement project. Michael Baker performed inspections on more than 800 bridges and load ratings on more than 300. Additionally, it co-authored the Rhode Island Department of Transportation (RIDOT) Bridge Inspection Manual in partnership with RIDOT bridge engineering staff and has developed repair sketches for emergency repairs of deficiencies discovered during its inspections. Michael Baker has held this contract since 2009. During its current five-year assignment, it has performed numerous investigations, including initial and routine inspections, damage inspections, in-depth inspections, and special interim inspections. Structure types include steel and concrete multi-girder, steel trusses, concrete slabs and arches, pre-stressed concrete, stone masonry arches, network tied arches, and timber bridges.
12/21-05/23	**Statewide Bridge Inspections, Statewide, Massachusetts.** *Massachusetts Department of Transportation.* Team Leader. Responsibilities included safety inspection of the highway tunnel. Michael Baker provided inspection services for bridges throughout Massachusetts that are categorized as non-National Bridge Inspection (NBI) program structures. These non-NBI structures are not included in the Nation Bridge Inspection program because they are under the 20-foot-length limit of a bridge as defined by federal standards. Other examples of non-NBI structures include railroad bridges over highways (RRO), privately owned bridges, and bridges that are intended for pedestrian or bikeway use.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Brian Howlett, PE**		Years of relevant experience with this employer	14	
Title	Civil Engineer		Years of relevant experience with other employer(s)	2	
Degree(s) / Years / Specialization			BSCE / 2010 / Civil Engineering - Structural		
Active registration number / state / expiration date			Professional Engineer - 13784 / Rhode Island / June 2025		
Year registered	2021	Discipline	Civil Engineering – Structural		
Contract role(s) / brief description of responsibilities			Assistant Team Leader - Above Water Bridge Inspection		

Mr. Howlett is a Lead Bridge Inspector/Civil Engineer with construction experience. He is currently responsible for the inspection of in-service bridges for Michael Baker's Connecticut office. He is also responsible for inspection reports.

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).
6/10-11/13	**Bridge Safety Inspection of Highway Bridges, Statewide, Massachusetts.** *Massachusetts Department of Transportation.* Bridge Inspector. Responsible for the inspection of bridges including fracture critical inspections, in-depth inspections and routine inspections. Also, responsible for writing reports and any calculations included in the reports. Michael Baker has performed biennial inspections of more than 130 bridges located across the state of Massachusetts for the Massachusetts Highway Department. Tasks were performed as part of Michael Baker's second consecutive inspection contract with the agency. The inspections involved typical small structures such as single-span bridges less than 100 feet in length that traverse local roads or carry local roads over interstates or minor waterways.
02/12-02/12	**Complex Bridge Inspection and Load Rating, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Team Leader. Responsible for inspection of in-service bridges. Michael Baker provided engineering services for the inspection of 139 locally-owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services included project management; inspection plan development; in-depth condition, appraisal, and fracture-critical inspections; load ratings; and preparation of inspection and load-rating reports.
05/10-09/10	**Inspection of Bridges and Sign Structures, Statewide, Connecticut.** *Connecticut Department of Transportation.* Bridge Inspector. Responsible for the inspection of bridges including fracture critical inspections, in-depth inspections and routine inspections. Responsible for writing reports and any calculations included in the reports. Also, responsible for the inspection of overhead sign structures and writing the reports for them. Within this inspection contract, Michael Baker was responsible for the inspection of four different types of structures, which included highway bridges, signs, mast-arms, and underwater. Michael Baker performed approximately 400 biennial bridge safety inspections per National Bridge Inspection Standards (NBIS) throughout the state of Connecticut including complex, in-depth, fracture-critical, and movable bridges.
09/11-10/19	**Complex and Fracture Critical Bridge Inspections, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Team Leader. Responsible for inspection of in-service bridges. Michael Baker provided engineering services under multiple contracts for the inspection of locally-owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services included project management; inspection plan development; in-depth condition, appraisal, and fracture-critical inspections; load ratings; and preparation of inspection and load-rating reports. The number of bridges inspected in the multiple contracts were: 1) FY 2018 & 2019 – 166 bridges; 2) FY 2016 & 2017 – 107 bridges; 3) FY 2014 & 2015 – 101 bridges; and 4) FY 2012 & 2013 – 194 bridges.

06/10-11/13	**Bridge Safety Inspection and Load-Rating Services, Statewide, Rhode Island.** *Rhode Island DOT.* Bridge Inspector. Responsible for the inspection of bridges including fracture critical inspections, in-depth inspections, and routine inspections. Michael Baker performed inspection services for bridges throughout Rhode Island as part of the Statewide Bridge Inspection Services Master Price Agreement project. Michael Baker performed inspections on more than 800 bridges and load ratings on more than 300. Additionally, it co-authored the Rhode Island Department of Transportation (RIDOT) Bridge Inspection Manual in partnership with RIDOT bridge engineering staff and has developed repair sketches for emergency repairs of deficiencies discovered during its inspections. Michael Baker has held this contract since 2009. During its current five-year assignment, it has performed numerous investigations, including initial and routine inspections, damage inspections, in-depth inspections, and special interim inspections. Structure types include steel and concrete multi-girder, steel trusses, concrete slabs and arches, pre-stressed concrete, stone masonry arches, network tied arches, and timber bridges.
07/10-01/22	**Load Ratings and Inspections of Highway Bridges and Tunnels, Statewide, Connecticut.** *Connecticut Department of Transportation.* Bridge Inspector. Responsible for the inspection of bridges including fracture critical inspections, in-depth inspections and routine inspections. Also, responsible for writing reports and any calculations included in the reports. Michael Baker is performing over 1,000 biennial bridge safety inspections with element level reporting throughout the state of Connecticut in accordance with National Bridge Inspection Standards (NBIS) and AASHTO's Bridge Manual for Element Inspection. Tasks include routine, in-depth, complex, fracture-critical, and movable bridge inspections. Typical assignments may involve performing bridge load ratings, preparing white papers, and conducting special investigations. Michael Baker's services will assist the client in complying with state and federal highway safety standards and in responding to emergency evaluation and repair needs.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Robert Frye, PE**		Years of relevant experience with this employer	22	
Title	Project Manager		Years of relevant experience with other employer(s)	12	
Degree(s) / Years / Specialization			BE / 1997 / Civil Engineering; MS / 2015 / Engineering Management		
Active registration number / state / expiration date			Professional Engineer - 015242 / West Virginia / December 2024		
Year registered	2002	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Design Services and Load Rating		

Mr. Frye has experience in bridge engineering including analysis, design, drafting, inspection, and project management. He has performed a wide array of structural analyses and designs on long and short-span bridges and a complete structure load rating. He has been involved in bridge design work, from conceptual bridge-type studies to the final design. His bridge inspection experience includes long-span bridge structures and tunnels, and he served as a project engineer for the 2002 and 2003 safety inspections in preparation for Bridge Day on the New River Gorge Bridge.

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).
09/18-03/21	**Veterans Memorial Bridge Six-Year Inspection Program, Weirton, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Project Manager. Responsible for inspection of the superstructure from Abutment 1 to Abutment 2 as well as help manage the completion of the inspection report. As part of a six-year program, Michael Baker has performed annual inspections since 2018 on the Veterans Memorial Bridge, based on the Federal Highway Administration's National Bridge Inspection Standards. The six-year inspection program includes routine, special, and in-depth routine levels of inspection. In 2020, the third year of the inspection cycle, Michael Baker conducted a magnetic flux leakage (MFL) inspection utilizing a subconsultant, Structural Technologies. An MFL inspection is a non-destructive method to test or scan the stay cables for any areas indicating wire strand breakage inside the cables.
05/20 - Ongoing	**Korean War Veterans Memorial Bridge Inspections, Wetzel County, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Project Manager. Project manager responsible for QA/QC and inspecting the entire superstructure using a UBI-62. Other responsibilities include managing the project budget and invoicing. As part of a six-year program, Michael Baker has performed annual inspections since 2020 of the Korean War Veterans Memorial Bridge, based on the Federal Highway Administration's National Bridge Inspection Standards. Michael Baker is providing inspection services to perform annual hands-on, in-depth, routine and special inspections of the Korean War Veterans Memorial Bridge over the course of six years. For each year, Michael Baker will also prepare element-level condition updates along with an individual inspection report and provide any recommendations for additional nondestructive testing, special studies, or more frequent inspections.
04/07 – 06/08	**Preliminary Design of the Northern Intermodal Terminal, Houston, Texas.** *Metropolitan Transit Authority of Harris County.* Designer. Responsible for the analysis and design of the substructures. Also performed some preliminary superstructure design calculations. Michael Baker was responsible for the following: preliminary design of streets, bridges, storm sewer system, detention, floodplain mitigation, preparing a detailed traffic analysis for the project, and preparing construction drawings for streets and bridges to serve the development of the intermodal terminal site. Construction elements of the project included two railroad overpass bridges and other bridges through the site, and a major LRT post-tensioned bridge 1,300 feet long. Other construction elements include four storm sewer systems, 35-acre feet of site fill, and excavation in White Oak Bayou for floodplain mitigation.

11/13-12/13	**S.R. 63 Bridge over the Escatawpa River and I-20 Bridges over Valley Street In-Depth Inspections, Jackson and Hinds Counties, Mississippi.** *Mississippi Department of Transportation.* Bridge Inspector. Inspected bridges and wrote bridge inspection reports. Michael Baker performed in-depth inspections of fatigue-prone steel girders on the S.R. 63 bridge over the Escatawpa River and the dual I-20 bridges over Valley Street. Michael Baker's services included under-bridge access, traffic control, and location and documentation of all cracks in the girders, stiffeners, diaphragms, cross frames, welds, and connections of the bridges, in accordance with the latest AASHTO *Manual for Bridge Evaluation*. Michael Baker used magnetic particle testing to locate the ends of all cracks in the steel girders and welds.
08/15-02/16	**Inspection of Locally Owned Complex and Fracture-Critical Bridges, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Bridge Inspector. Responsible for bridge inspection, writing bridge inspection reports, and entering inspection information into the Bentley InspectTech software. Michael Baker provided engineering services for the inspection of 105 locally owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services included project management, the preparation of bridge inspection plans, in-depth and fracture-critical inspections, condition and load ratings, and preparation of inspection reports.
09/2017-Ongoing	**OSARC Statewide Bridge Inspection, Statewide, Mississippi.** *Mississippi Department of Transportation.* Bridge Inspector. Inspected bridges and wrote inspection reports. Michael Baker provided inspection and engineering services under multiple contracts for the National Bridge Inventory bridge safety inspections, load rating, and reporting of bridges with varying superstructure types. Michael Baker's services included project management, inspection plan development, routine and in-depth condition and appraisal inspections, load ratings, and the preparation of inspection and load-rating reports. The bridges were located on local road systems owned and maintained by various counties, cities, and towns throughout Mississippi. In all, Michael Baker inspected 1,322 bridges over nine years, from FY 2012 to FY 2020.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Jeffrey McRae, PE**		Years of relevant experience with this employer	27	
Title	Project Manager- Bridges		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS / 1996 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer - 29081 / Louisiana / September 2024 PMP -1284298 / Nationwide / July 2027		
Year registered	PE - 2000 PMP - 2024	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Design Services & Load Rating; Bridge Repair		

Mr. McRae is currently involved in various bridge design projects. His responsibilities have included completing contract plans from the conceptual stage through final design on numerous bridge design projects, generating bridge quantity calculations, checking concrete and steel bridge shop drawings and bar lists, and generating substructure and superstructure design calculations. He has also performed the duties of project manager on several bridge design projects and three bridge inspection projects. His continuing education and training have included the FHWA Bridge Safety Inspection Training Program, AASHTO LRFD, 3rd Edition; Design for Steel Bridge Superstructures, Design of Concrete Bridges by AASHTO LRFD Bridge Design Specifications; Computer-Aided LRFD Analysis and Design of Bolted Splices for Steel Bridges; and NHI Course No. 130081, 130081A–130081D Load and Resistance Factor Design (LRFD) For Highway Bridge Superstructures. In addition, he is proficient with several software applications, including Bentley MicroStation, Bentley LEAP Bridge, Microsoft Excel, Adobe Acrobat Professional, Bentley GEOPAK, and MIDAS Civil.

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).
03/96- 11/03	**S.R. 302/U.S. 78 Hacks Crossing Road, Construction Management and Inspection Services, DeSoto County, Olive Branch, MS and Memphis, Tennessee.** *Mississippi Department of Transportation.* Assistant Engineer. Responsibilities included bridge construction inspection. Responsibilities also included inspection of concrete foundations, piers, and pier caps, erection of steel plate girder superstructure, and deck construction. Other inspections included earthwork and drainage structures. Michael Baker served as project engineer, managing construction activities and acting on behalf of the Mississippi Department of Transportation for grading, drainage, bridge, and paving projects on State Route 302.
10/03-01/04	**47 Trail Bridge Inspections, Four National Forests in Mississippi.** *US Forest Service.* Project Manager. Responsibilities included the coordination of bridge inspection fieldwork and the preparation of inspection reports for 47 of the Forest Service's trail bridges located throughout Mississippi's National Forests. Michael Baker was selected to perform the inspection of 47 trail bridges located in four National Forests in Mississippi. The inspection work followed NBIS and included hands-on field inspection, load rating and posting update, maintenance and repair recommendations, scalability assessment, digital photography, and completed inspection report.
04/02-03/06	**NBIS Bridge Inspections, Six National Forests in Mississippi.** *US Forest Service.* Project Manager. Responsibilities included the coordination of bridge inspection fieldwork and the preparation of N.B.I.S. inspection reports for all of the Forest Service's bridges located throughout Mississippi's National Forests. Four-year contract consisting of two (2) inspection cycles that included one cycle for every two years. Under the first inspection cycle, Michael Baker performed inspection of 91 bridges located in six national forests in Mississippi. The second cycle included 92 bridges and was completed in 2005. Included in the 92 bridge inspections during the second cycle were 8 inspections for bridges with structural concerns and structural analyses of 6 steel military type bridges.

10/01-12/07	**Fort Henry Six-Year Bridge Inspection, Wheeling, West Virginia.** *West Virginia Department of Transportation, Division of Highways, District 6.* Assistant Engineer. Responsibilities included generation and checking of bridge rating calculations. Michael Baker has performed annual condition inspections over a six-year period for the Fort Henry Bridge. The first inspection performed in 2001 was an in-depth inspection, which included cleaning and testing. The remaining five yearly inspections are of varying magnitude with Interim Inspections alternating with Periodic Inspections. The Interim Inspections highlight critical (defective) areas only while the Periodic Inspections require inspection of the entire bridge.
01/84-10/13	**WVDOH Six-Year Bridge Inspection Program, Various Locations, West Virginia.** *West Virginia Department of Transportation, Division of Highways.* Assistant Engineer. Responsibilities included generation and checking of bridge rating calculations. Michael Baker was responsible for performing the inspection services and report writing for the New River Gorge Bridge, Veteran's Memorial Bridge, Fort Hill Bridge, Fort Henry Bridge, and Wheeling Tunnels.
09/13-12/16	**S.R. 3 Bridge Hydraulic Design, Tate County, Mississippi.** *Mississippi Department of Transportation.* Engineer. Responsibilities included generating preliminary bridge R.O.W. plans, geometric calculations and design calculations for two hydraulic bridge crossings. Michael Baker provided engineering services for the replacement of the S.R. 3 bridges over Strayhorn Creek and Arkabutla Creek. Michael Baker's services included bridge hydraulic analyses, scour analysis and evaluation, bridge scour and stream bank stabilization design, and conceptual and preliminary structural design.
12/16-06/18	**I-69 Desoto County Line to Arkabutla Dam Road, Tunica County, Mississippi.** *Mississippi Department of Transportation.* Bridge Engineer. Responsibilities included generation of engineering design calculations, bridge geometry, bridge quantities, and conceptual through preliminary bridge design contract plans for six bridges. Michael Baker will provide design services for I-69 from the Desoto County Line to south of Arkabutla Dam Road. The scope will include the design of newly constructed interstate roadway, necessary interchanges, relocation of roads as necessary, and access/frontage roads. Michael Baker will also provide a property map, conduct site visits for the conceptual plan review and field inspection plan review, and attend a site visit for hydraulic bridge review.
10/17-08/23	**U.S. 49 Florence to Scales Construction Engineering and Inspection, Rankin County, Mississippi.** *Confidential Client.* Assistant Engineer. Responsibilities included generation of bridge design calculations and final contract plans, as well as QA/QC. Michael Baker provided engineering services, including field surveys, preliminary through final design, construction phase services, and public relations support, for the construction of U.S. 49 from Florence to the Scales Area. Working as an extension of client staff, Michael Baker provided construction management, Phase C Design (RFI/submittals), utility coordination, scheduling review (Primavera P6), material testing, erosion control, surveying, traffic control, and public relations support, for the construction of U.S. 49 from Florence to the Scale Area.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Shalin Sheth, PE**		Years of relevant experience with this employer	3	
Title	Bridge Engineer		Years of relevant experience with other employer(s)	4	
Degree(s) / Years / Specialization			MS / 2019 / Civil Engineering (Structural); BTech / 2016 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer - 48337 / Louisiana / March 2026		
Year registered	2023	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Design Services & Load Rating; Bridge Repair		

Shalin's experience includes structural design bridge design, bridge load rating, bridge load testing, and project management, for a variety of projects. He has worked in the structural forensics field as an intern, before working as a bridge EI. He has experience with drafting and detailing bridge widening plans, along with structural designing of bridge components. His professional experience also includes load rating bridges of various types, performing field load testing of bridges, computing bridge quantities and cost estimates, preparing bridge rehabilitation plans, conducting GPR surveys of bridge decks, training junior engineers, and various administrative tasks.

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).
11/22- Ongoing	**Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program.** *LA DOTD.* Bridge Engineer. Responsible for developing engineering design calculations, bridge geometry, bridge quantities, and design plans. Michael Baker was selected by DOTD to provide bridge, roadway and environmental services to replace off-system bridges in the five parishes located in DOTD District 07. Structures replaced by this program include numerous culverts, box culverts, and slab span bridges. Currently, 10 of the 12 bridge surveys have been approved, hydraulic studies are ongoing and initial submittals in February 2024, Solicitation of Views have been sent out, and Preliminary Plans have started.
11/21 – Ongoing	**US 371: KCS RR Overpasses HBI, Webster Parish, Louisiana.** *LA DOTD.* Bridge Designer. Responsible for computation of engineering design calculations, determining structural feasibility of bridge geometry, structural design of all bridge components, computation of bridge quantities, and plan production at various preliminary and final submittal stages/milestones. Ensured that bridge plans meet both DOTD and KCS Railroad Design Guidelines. Project includes the design of a detour structure (Akrow Bridge) for the bridge site at Sibley to keep US 371 open under traffic. The new bridges will be concrete girder-type and includes widening the two existing bridges in Minden to accommodate an additional travel lane for each bridge. A detour bridge will also be included for the Sibley location. Strict adherence to the KCS railroad design guidelines as well as adequate coordination with KCS will have to be maintained during all phases of design.
10/23 – Ongoing	**Pecue Lane / I-10 Interchange, East Baton Rouge Parish, Louisiana.** *East Baton Rouge Parish DPW.* Bridge Engineer. Responsible for design of twin bridges over Interstate 10 constructed in conjunction with a Diverging Diamond Interchange. Work includes design of girder span bridges, including substructure and super structure. Developed preliminary and final engineering plans for the bridge structures and retaining walls needed for the new I-10 interchange, which featured multiple through and turn lanes on Pecue Lane, an entrance ramp and exit ramp on eastbound I-10, an entrance ramp and exit ramp on westbound I-10, a replacement two-lane overpass bridge, a replacement Pecue Lane/Wards Creek Bridge, and other work.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Brandon Pitre, PE, PTOE, RSP1**		Years of relevant experience with this employer	5	
Title	Transportation Engineer		Years of relevant experience with other employer(s)	7	
Degree(s) / Years / Specialization			MSCE / 2012 / Civil Engineering; BSCE / 2010 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer No. 40975 / Louisiana / March 2025; Traffic Control Technician / LA State Specific / April 2026; Traffic Control Supervisor / LA State Specific / April 2026; Certified Flagger / December 2027; Traffic Engineering Analysis Process and Report Modules 1-3		
Year registered	2016 / 2018 / 2020	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Roadway Design		

Mr. Pitre is a transportation engineer with experience in conceptual and geometric design for various roadway projects. He has worked in the public sector at DOTD in the Construction and Road Design Sections before working as an engineering consultant. His professional experience as a transportation engineer includes roadway geometric design and plan development primarily using Bentley MicroStation and InRoads, quantity take-off calculations of construction items used to develop cost estimates, stormwater drainage analysis and design, technical report writing, and compilation of construction specifications.

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).
11/21-Ongoing	**US 371: KCS RR Overpasses HBI, Webster Parish, Louisiana.** *DOTD. Project Manager and Roadway Design Lead.* Oversee the delivery of the Preliminary and Final roadway and bridge design plans. The project consists of the design and replacement of three bridges that cross over a KCS railroad line at two different locations in Webster Parish (Sibley and Minden). The new bridges will be concrete girder-type and include widening the two existing bridges in Minden to accommodate an additional travel lane for each bridge. A detour bridge will also be included for the Sibley location. Strict adherence to the KCS railroad design guidelines as well as adequate coordination with KCS will have to be maintained during all phases of design.
06/19-12/24	**I-2/I-69C Interchange and I-2 Reconstruction Design-Build, Pharr, McAllen, and San Juan, Texas.** *Texas Department of Transportation. Transportation Engineer.* Responsible for the retaining wall layout and plan production of retaining wall sheets. As part of the retaining wall design team, worked closely with the roadway design team to ensure that retaining walls reflected the most up-to-date retaining wall layout. Primarily utilized Power GeoPak to project critical retaining wall controls (wall bottom, existing ground, finished grade, and wall top) from the 3d terrain and proposed roadway model. Duties also included creating and annotating the plan and profile sheets for the retaining walls throughout a large portion of the project. Michael Baker provided design and engineering services for this major transportation reconstruction project for 7.8 miles of operational and safety improvements along I-2 in a rural-to-urban segment of the county. For this project, it developed roadway designs and alternative concepts as well as maintenance and protection of traffic (MOT) plans for efficiently redirecting traffic. Its roadway, bridge, and MOT teams collaborated using 3D models to ensure designs met requirements set by the Texas Department of Transportation (TxDOT) for construction clearance, profile grades, design speeds, bridge removals, and work-zone traffic barrier clearances. Michael Baker's unique solution for construction allowed the contractor to construct three out of the four direct connectors using minimal closures. By eliminating these restrictions, the contractor could offer a lower bid, reducing costs and saving money.
05/21-12/24	**New Orleans Rail Gateway - Avondale PEL Study, Jefferson Parish, Louisiana.** *LA DOTD.* Transportation Engineer. Responsible for creating various grade-separated railroad crossings in order to increase safety at the existing at-grade railroad crossings by eliminating the at-grade crossings while also greatly

	reducing the traffic delays in this area when trains are passing. Duties include creating typical roadway and bridge sections as well as creating new horizontal and vertical alignments for the Parish roads which cross the railroad tracks. Michael Baker is providing operations, engineering, and environmental studies and preparing a planning and environmental linkages (PEL) study to evaluate the consolidation, road-over-rail grade separation, or closure of four at-grade highway-rail crossings (Live Oak Boulevard, Willswood Lane, George Street, and Avondale-Garden Road). For the project, Michael Baker is performing project management, solicitation of views, secondary-source environmental resources inventory, geographic information system (GIS) mapping, freight rail operations forecasting and crossing occupancy time analyses, roadway traffic and crash analyses, purpose and need, roadway/bridge conceptual design, cost estimates, alternatives analyses, stakeholder and agency coordination, and public outreach.
09/19-12/24	**New Orleans Rail Gateway - Jefferson Highway Rail Crossing Relocation EA, Jefferson Parish, Louisiana.** *LA DOTD.* Transportation Engineer. Responsible for review of a new proposed horizontal and vertical alignment developed by another design engineering firm. Duties included review for conformance to local Parish criteria as well as railroad-specific clearance requirements. Michael Baker is providing operations, engineering and environmental studies and preparing an environmental assessment (EA) for improvements to two at-grade highway-rail crossings along Jefferson Highway (US 90) in Jefferson Parish, between the Ochsner Health Foundation Hospital and Monticello Avenue. For the project, Michael Baker is performing solicitation of views (SOV) including Native American government-to-government coordination through FRA, environmental resources investigations, geographic information system (GIS) mapping, freight rail operations forecasting and crossing occupancy time analyses, roadway traffic and crash analyses, rail and roadway/bridge conceptual design, cost estimates, alternatives analyses, stakeholder and agency coordination, and public outreach.
03/21- 01/23	**FM 1791 from FM 149 to Walker Co. Line Project, Montgomery County, Texas.** *Texas Department of Transportation.* Transportation Engineer. Responsible for assisting in plan production of a Drainage Impact Study by evaluating hydraulic impacts as a result of adding new pavement to existing roadway. Performed activities such as delineating drainage basins, collecting existing soil composition and rainfall data, and performing Time of Concentration (TOC) calculations to evaluate how much flow/discharge from the design storm the existing roadside ditches can accommodate to see if the hydraulic capacity of the existing ditches needed to be increased. Michael Baker provided planning, design, and engineering services for this 3.4-mile-long roadway widening project for the Texas Department of Transportation (TxDOT). For the project, it developed multiple alternatives for horizontal and vertical alignments and bridge and culvert layouts for three bridges carrying FM 1791 over multiple stream crossings.
04/20-04/24	**Laredo 7 Architectural Engineering Border Infrastructure Project, Laredo, Texas.** *U.S. Army Corps of Engineers, Fort Worth District.* Transportation Engineer. Designed access roads connecting the maintenance road along the U.S./Mexico border fence to the local nearby county roads. Created horizontal and vertical alignments and corridor models following design criteria set forth by the USACE and U.S. Border Patrol. Michael Baker, as part of a joint venture team, provided design and engineering services for the construction of 52.5-miles of border fencing and infrastructure along the United States/Mexico border. Along with the fencing, the project included all-weather patrol, maintenance, and access roadways, culverts, low water crossings, bridges, motorized vehicle gates, enforcement-zone LED lighting, a video surveillance system, and an underground sensor detection system. For the project, Michael Baker provided preliminary, interim, and final designs, roadway, structural, geotechnical, and electrical engineering, hydrology and hydraulics analysis, quality control, a floodplain analysis and report, a design charrette, topographic survey, utilities, construction cost estimates, and bid phase services.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Alison Gonzalez, PE**		Years of relevant experience with this employer	4	
Title	Project Manager- Roadway		Years of relevant experience with other employer(s)	12	
Degree(s) / Years / Specialization			BSCE / 2007 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer - 0047215 / Louisiana / March 2025		
Year registered	2022	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Roadway Design		

Ms. Gonzalez is a transportation engineer specializing in highway location and design and bicycle/pedestrian facility design projects. In these roles, she is responsible for the development of conceptual layouts and construction plan designs for highway design and location projects in Georgia. Her detailed responsibilities include roadway geometric design; drainage analysis and design; construction staging design; erosion, sedimentation & pollution control and monitoring plan preparation; signing & marking design; quantities and cost estimates; and construction and right of way plan preparation.

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).
04/20-06/25	**Bridge Replacement on Sea Island Road over Dunbar Creek, St. Simons Island, Georgia.** *Georgia Department of Transportation.* Lead Roadway Engineer. Responsible for the roadway design and development of conceptual layouts, preliminary plans, and final plans. Detailed responsibilities include roadway geometric design, construction staging design, erosion, sedimentation and pollution control, and monitoring plan preparation, signing and marking design, quantities and cost estimates, and construction and right-of-way plan preparation. This 0.2-mile-long project is replacing the Sea Island Road Bridge over Dunbar Creek in St. Simons Island. An on-site temporary detour bridge will be used to close the existing bridge and construct a new 360-foot-long, nine-span prestressed concrete beam bridge in the current location. The roadway approaches will be reconstructed to tie into the existing road on both sides of the proposed bridge with two 12-foot lanes and rural shoulders. Right-of-way and easement will be acquired from multiple parcels. Services include survey, concept development, preliminary and final design, bridge design, traffic analysis, environmental studies, NEPA documentation, public involvement, utility coordination, and hydraulics and drainage design.
09/21-12/25	**S.R. 25 Over Savannah and Middle Rivers Design-Build, Port Wentworth, Georgia.** *Georgia Department of Transportation.* Lead Roadway Engineer. Responsible for the roadway design and development of conceptual layouts, preliminary plans, and final plans for this design-build project. Detailed responsibilities include roadway geometric design, construction staging design, erosion, sedimentation and pollution control and monitoring plan preparation, signing and marking design, quantities and cost estimates, and construction and right-of-way plan preparation. Michael Baker is acting as a subcontractor for replacement of the S.R. 25 bridges over the Savannah and Middle Rivers near Port Wentworth, Georgia. The Michael Baker team is providing project management, roadway design, structural design, bridge hydraulic study, drainage, traffic engineering, and environmental permitting services for this design-build project.
08/20-01/22	**I-16 at SR 307 Engineering Services, Chatham County, Georgia.** *Georgia Department of Transportation.* Project Manager. Responsible for the oversight of management and plan reviews to ensure that all submittals are in compliance with the Design-Build Agreement (DBA). Michael Baker provided engineering services for the bridge replacement project along SR 307/Dean Forest Road over I-16 in Chatham County, Georgia.

05/22-05/23	**I-16/I-95 General Engineering Consulting, Savannah, Georgia.** *Georgia Department of Transportation.* Subject Matter Expert. Responsible for reviewing roadway plans and design calculations to ensure that the design is in compliance with the design-build agreement. Michael Baker is providing post-let general engineering consultant services for improvements to I-16 at I-95 interchange and I-16 widening. Services include final design review, submittal review, and owner's verification of design-builder-provided construction engineering and inspection services.
03/19-08/20	**Bridge Bundle - SR 10 Loop EB & WB at Middle Oconee River (PI#0013715), SR 82 at Middle Oconee River (PI#0013819), Clarke and Barrow Counties, Georgia.** *Georgia Department of Transportation.* Assistant Project Manager for this 0.10-mile long bridge replacement project on the northwest side of the heavily travelled SR 10 loop. This bridge replacement project is a 4-lane divided rural freeway around the city of Athens, GA to replace the existing 288-foot long, twin steel beam bridges, with a 3-span 350-foot long PSC beam bridge over the river. Staged construction will be utilized by first building a portion of the new bridge in the median area while traffic is maintained on the existing bridges. SR 82 is a 0.30-mile long 2-lane rural bridge replacement project that will replace the existing 4-span 250-foot long steel beam bridge with a 270-foot long, 3-span PSC beam bridge on a curved roadway alignment over the river. ABC techniques and an off-site detour will be utilized by closing the roadway to minimize the construction schedule and disruption to the public. M&N is responsible for overall project management, concept design, public involvement, environmental, preliminary plans, right-of-way plans, final construction plans including full bridge design and bridge hydraulic studies on this bundle.
01/20-08/20	**Rockingham Farms Development at Veterans Parkway – Diverging Diamond Interchange, Chatham County, Georgia.** *Landmark 24.* Assistant Project Manager for the design of thirty percent costing plans and conceptual cost estimate for a new Diverging Diamond Interchange (DDI). The interchange will provide access to a new 1100 acre light industrial / warehouse development and will be located on Veterans Parkway approximately 1.4 miles south of Chatham Parkway, in the City of Savannah. The project includes a new bridge 260-foot long by 99-foot wide (2 spans), with four 15-foot wide travel lanes (2 lanes in each direction), a 20-foot raised median and 8-foot shoulders over Veterans Parkway. The new bridge will be a pre-stressed concrete (PSC) beam bridge supported on PSC pile bents. The City of Savannah is letting the project, but the design will adhere to GDOT's plan presentation guidelines. The bridge design will follow the American Association of State Highway and Transportation Officials (AASHTO) standard specifications, use GDOT design software and GDOT Bridge Design Manual policies and standards, and will be prepared per GDOT's Bridge Detailing Manual. The construction of the interchange is anticipated to be finished by June 2022.

16. Staff Experience:				
Firm employed by:	Michael Baker International, Inc.			
Name	**Stephen Fowler, PE**		Years of relevant experience with this employer	1
Title	Regional Technical Manager- Bridge		Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization			BA / 2008 / Civil Engineering	
Active registration number / state / expiration date			Professional Engineer - 0048230 / Louisiana / March 2026	
Year registered	2023	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Bridge Repair	

Mr. Fowler serves as a Regional Technical Manager – Bridges for the Southern Region at Michael Baker. He is responsible for the capture, delivery, and management of complex and non-typical projects, and the preparation of design calculations, plans, and contract documents. He has over 16 years of experience in the design and analysis of bridges, retaining walls, and miscellaneous transportation and infrastructure-related structures. He has worked on projects throughout Florida, Georgia, Illinois, North Carolina, Tennessee, and Texas.

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 – 12/24	**2022-11 Statewide Bridge Delivery, Statewide, Kentucky.** *Kentucky Transportation Cabinet.* Senior Engineer. Responsible for performing QAQC on bridge design calculations and plans. Michael Baker is serving as a major subconsultant for one of the bridge delivery contracts under the Kentucky Transportation Cabinet (KYTC) Statewide Bridge Delivery project. The projects are full-service including project management, surveying, structures design, hydraulics and drainage analysis, roadway design, plan development, geotechnical services, environmental, right-of-way (ROW) acquisition, and utility coordination and relocation.
06/19 – 12/24	**I-2/I-69C Interchange and I-2 Reconstruction Design-Build, Pharr, McAllen, and San Juan, Texas.** *Texas Department of Transportation.* Technical Advisor. Responsible for providing technical direction on modelling footings using the strut-and-tie method and QC review for the load rating of a precast concrete girder bridge. Michael Baker provided design and engineering services for this major transportation reconstruction project for 7.8 miles of operational and safety improvements along I-2 in a rural-to-urban segment of the county. For this project, it developed roadway designs and alternative concepts as well as maintenance and protection of traffic (MOT) plans for efficiently redirecting traffic. Its roadway, bridge, and MOT teams collaborated using 3D models to ensure designs met requirements set by the Texas Department of Transportation (TxDOT) for construction clearance, profile grades, design speeds, bridge removals, and work-zone traffic barrier clearances. Michael Baker's unique solution for construction allowed the contractor to construct three out of the four direct connectors using minimal closures. The contractor could offer a lower bid by eliminating these restrictions, reducing costs and saving money.
06/12 – 08/18	**S.R. 9 (I-95) Overland Bridge Replacement Design-Build, Jacksonville, Florida.** *Archer Western Contractors, LLC.* Lead Structural Engineer. RS&H served serving as the prime design consultant on the design-build team for the S.R. 9 (I-95) Overland Bridge replacement. The project extends 2.56 miles from the Fuller Warren Bridge over the St. John's River in downtown Jacksonville to just south of San Diego Road. The improvements provide long overdue upgrades to the city's largest arterial and main evacuation route, I-95. For this primary section, the main objective was to add capacity, mobility, and safety to the corridor while minimizing any inconvenience to the public. The project included replacing several bridges, as well as an interchange reconfiguration and construction of collector-distributor roads. RS&H provided all investigation, design, permitting, coordination, plans, and specifications. During pre-award development of the project, the design-build team developed numerous innovations through the ATC process that resulted in significant schedule and cost savings. Innovations

	included a simplified MOT plan, a shortened schedule, more efficient drainage and utility designs, and a $30 million reduction in required right-of-way costs to the owner. Responsible for design of the project's namesake Overland Bridge.
09/13 – 10/13	**Mathews Bridge Emergency Repairs, Jacksonville, Florida.** *FDOT - District Two.* Structural. In September of 2013, the Mathews Bridge was struck by a United States Naval ship, which severed the bridge's north lower truss chord on impact. Within 76 hours of impact, RS&H performed an emergency inspection of the damage, prepared a bid package for potential contractors, including a written agreement, scope of work, sequence of construction, and repair plans for temporary and permanent repairs. The design and construction included several innovations and unique solutions, including temporary repair collars to anchor tension rods, spherical nuts to accommodate movements during stressing operations, heat straightening of damaged portions, and a stub beam to avoid fit-up issues with the full replacement of the damaged chord. The coordination and dedication of the entire team resulted in the bridge reopening in only 33 days after impact and 12 days ahead of schedule. Responsible for inspection and assessment of the damaged bridge, finite-element analysis of the damaged truss, design of the temporary repairs, shop drawing review, development of the contract plans, and 24-hour on-call assistance for the entire project duration.
01/22 – 05/23	**Lot X Bulkhead Inspection, Jacksonville, Florida.** *City of Jacksonville.* Structural Engineer. This project involved the assessment of approximately 5,500 feet of bulkhead along the St. Johns River near downtown Jacksonville. Above-water and underwater inspections were performed, and a comprehensive report was produced that included descriptions of the bulkhead segments, results of the inspection, recommendations for repair and maintenance, and approximate cost of implementing the recommendations. Responsible for providing technical expertise on repair methods and QC review of the report.
01/17 – 12/17	**Jork Road Bridge Emergency Inspection and Repair, Jacksonville, Florida.** *City of Jacksonville.* Structural Engineer. RS&H completed this assignment under the Miscellaneous Dredge and Waterways general consulting contract. The task involved an emergency inspection and load rating of a single-span timber bridge over Pottsburg Creek. The inspection revealed severe section loss and steel H-pile corrosion, resulting in almost 100 percent section loss. As a result, the bridge had to be closed immediately. Repair plans were developed, including concrete pile jackets, to reopen the sole neighborhood entranceway.
02/17 – 08/17	**Acree Road over Thomas Creek Emergency Bridge Repairs, Jacksonville, Florida.** *City of Jacksonville.* Engineer-of-Record. RS&H provided design and inspection services for the emergency repair of two timber bridges over Thomas Creek. The repairs involved strengthening a crushed pile bent cap on one bridge and re-establishing bearing between a bent cap and piles on the adjacent bridge. The design and contract drawings were developed with input from the contractor, allowing for construction flexibility to reduce schedule and cost. RS&H was responsible for quality control of the final repair plans and calculations.

16. Staff Experience:				
Firm employed by:	Michael Baker International, Inc.			
Name	**Aaron Stover, PE, SE**		Years of relevant experience with this employer	2
Title	Regional Practice Lead - Bridge		Years of relevant experience with other employer(s)	25
Degree(s) / Years / Specialization			MS / 1999 / Civil Engineering and Structures BS / 1998 / Civil Engineering and Structures AS / 1995 / Engineering	
Active registration number / state / expiration date			Professional Engineer - PE062342 / Pennsylvania / September 2025 Civil Professional Engineer 062.075208 / Illinois / November 2025 Structural Engineer 081006161 / Illinois / November 2024 Civil/Structural Engineer 2023002898 / Missouri / December 2024	
Year registered	PE – 2003 SE - 2004	Discipline	Structural Engineer Civil Engineer	
Contract role(s) / brief description of responsibilities			Bridge Repair	

Mr. Stover is a Structural Engineer and Project Manager with experience in the design and analysis of highway bridges including long-span truss, arch and cable-stayed bridges. He has had major roles in the design, design review, rehabilitation, public involvement, and construction inspection of several long span bridges over navigable waterways. Mr. Stover has also been a lead engineer for many LRFD bridge designs and load ratings including prestressed concrete bridges, steel bridges, curved girder bridges, piers, foundations and retaining walls. In addition, Mr. Stover's experience includes significant experience in preparing contract documents for design build projects. His recent experience with major river crossings includes design, design review, agency coordination, public involvement, and preparing contract documents for design-build 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).
05/21-06/22	**I-40 Mississippi River Bridge Inspection, Memphis, Tennessee.** *ArDOT.* Technical Advisor. As a follow on to the inspection and repair contract, responsible for overseeing the load rating and redundancy analysis of the structure. Load Rating was performed for all state specific legal vehicles, and a standalone load rating tool was developed to allow ArDOT to evaluate permit loads and future deterioration. Michael Baker also performed a redundancy analysis to determine which members of the arch truss had a redundant load path in according to the guide specifications. Michael Baker provided a fracture-critical inspection of the main arch-truss spans on the I-40 Mississippi River Bridge in Memphis, Tennessee. Work included the above-deck elements, utilizing rope access inspection techniques, as well as UAS. Subconsultant Fickett Structural Solutions provided QA inspection. After the discovery of a critical finding in the steel tie-girder and subsequent shutdown of the bridge, the project expanded to include remobilization and completion of inspection after the Phase I repairs were complete. Fickett Structural Solutions was retained to assist with extensive nondestructive testing. Subconsultant WJE was also involved to perform a forensic investigation on the fracture surface and to test additional anomalies found in the tie-girder.
05/21-12/22	**Hernando de Soto Bridge Emergency Repairs, Memphis, Tennessee to West Memphis, Arkansas.** *Tennessee DOT.* Project Manager. Responsible for serving as the project manager and engineer of record for all phases of the repair of the Hernando de Soto Bridge. Led a team of more than 60 of Michael Baker's engineers to develop innovative solutions to quickly repair the damaged structure. Michael Baker provided emergency design and engineering services for the repair of the Hernando de Soto Bridge. The bridge includes a two-span continuous 1,800-foot steel tied arch structure that carries Interstate 40 (I-40) across the

	Mississippi River. As one of only two crossings of the Mississippi River in the Memphis area, the bridge is a vital transportation, commerce, and defense link, carrying approximately 60,000 vehicles daily. After observing a fracture-critical crack in the tie girder of the arch's primary navigation span, Michael Baker developed a three-phase plan for the repair of the bridge, which included temporary stabilization plating, innovative post tensioning, and repairing additional defects. The bridge was fully opened just 83 days after the fracture was discovered.
09/16-04/17	**KYTC Statewide Load Rating - 2016-07 Package 2, Statewide, Kentucky.** *Kentucky Transportation Cabinet.* Project Manager. Responsible for Project Management, including scoping, budget and schedule. In addition, provided guidance for load rating engineers and performed Q/A review of the load ratings. Michael Baker performed the load rating for 16 curved girder bridges for KYTC. Additional field inspection was required for bridges to document deterioration or obtain measurements where plans were not available. Having completed the project ahead of schedule and under budget, the client added seven additional bridges to the load rating contract, including one post tensioned I-beam bridge; one pin and hanger bridge; one four-span curved girder bridge; and four railroad flat car bridges. Load ratings were performed in accordance with the Manual for Bridge Evaluation and the Kentucky Bridge Inspection Procedures Manual. Bridges were load rated using the AASHTO BrR® software package. Load ratings were performed for the Kentucky legal loads, special hauling vehicles (SU4-SU7), three superload vehicles, and the emergency vehicles (EV2 and EV3) as required by FHWA.
02/16-03/17	**U.S. 31 Over Water Street Bridge Inspection, Glasgow, Kentucky.** *Kentucky Transportation Cabinet.* Senior Structural Engineer. Responsible for review of inspection reports and findings. Responsibilities included assisting with the development of replacement bridge concepts including the presentation of alternatives to the Glasgow City Council. Michael Baker provided in-depth inspection of masonry stone arch, load rating, and non-destructive testing evaluation for the bridge carrying U.S. 31-EX over W. Water Street to ensure the structural safety and configuration for use by the travelling public. The Water Street Tunnel is a two-span semicircular arch and is 23 feet long. Field conditions indicated large stones missing and separation of stones overhead with mortar missing or loose throughout the culvert. Inspection and evaluation were needed to assist the client in deciding whether to repair, rehabilitate, or replace the structure. Factors included physical condition, traffic volume and weight, geometrics, importance to community, and cost.
11/96 – 10/00	**NBIS Bridge Inspections in Allegheny, Beaver & Lawrence Counties, Pittsburgh, Pennsylvania.** *Pennsylvania Department of Transportation, District 11-0.* Engineer. Responsible for checking the rating analysis of the Liberty Bridge. Responsibilities included checking panel point dead loads, live loads, and truss ratings. Michael Baker was selected to perform 48 NBIS bridge and tunnel inspections and load ratings for state and local agencies over a 24-month cycle. Major river truss spans included the Liberty, Sewickley and Smithfield Street Bridges; tunnels inspected included the Liberty and Squirrel Hill Tunnels. MPT for night and weekend inspections was required for high volume roadways such as I-376 East and West; inspection techniques included free-climbing, rappelling, vertical lift cranes, cable-rigging, river barge platforms, and under bridge inspection cranes. Rating analyses were performed on reinforced concrete open-spandrel arch bridges, steel box and I-girder bridges, and deck trusses using STAAD, BSDI-3D System and BAR programs.

16. Staff Experience:					
Firm employed by:	Michael Baker International, Inc.				
Name	**Philip Quillin, PE, PMP**		Years of relevant experience with this employer	21	
Title	Greenville Office Executive		Years of relevant experience with other employer(s)	31	
Degree(s) / Years / Specialization			Master's Certificate / 2011 / Project Management BS / 1994 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer - 36183 / Louisiana / September 2025 Project Management Professional (PMP) – 2069066 / Nationwide / August 2026		
Year registered	PE – 2011 PMP – 2011 CBI - 2005	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Design Services & Load Rating		

Mr. Quillin has a strong background in the design, analysis, rehabilitation, maintenance, inspection, load rating and permitting of structures. Throughout his 30-year career, he has led the inspection, analysis, load rating, and assessment of over 1,000 bridges. Philip recently served as Project Manager of the Statewide contract for South Carolina to establish a load rating program, overseeing five other consultants performing bridge load ratings, assessments, complex structure rating and maintenance manuals, and development of a custom AASHTOWare Bridge Management program.

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).
10/22 - Ongoing	**Bridge Inspection and Evaluation Engineering Services, Statewide, South Carolina.** *South Carolina Department of Transportation.* Assistant Project Manager. Assisted the Project Manager in overseeing tasks. Michael Baker is providing bridge inspection and engineering evaluation services in support of a statewide, consultant-led, bridge inspection effort for higher priority bridges across South Carolina. The bridges included in this contract encompass interstate system bridges, bridges over railroads, underwater inspections, and bridges with more challenging access needs.
08/20 - Ongoing	**Bridge Inspection and Load Rating Quality Assurance, Statewide, Montana.** *Montana Department of Transportation.* QA/QC. Provided quality assurance and quality control support. Michael Baker is providing statewide bridge inspection and load rating services under a bridge inspection and load rating program. The project includes QA reviews of 150 bridge inspection reports, field reviews of 60 field inspections, review and update of the Montana Department of Transportation (MDT) BIRM, review of the MDT load rating program, scoping changes to the load rating program and manual, developing QA summary reports for individuals district-wide and statewide, generating the state bridge engineer's letter, and developing year-end training based on the QA reviews for the year.
07/13 – 07/15	**Complex and Fracture-Critical Bridge Inspections, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Bridge Engineer. Responsible for quality control. Michael Baker is providing engineering services for the inspection of 101 locally-owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services include project management; the preparation of bridge inspection plans; condition, appraisal, and fracture-critical inspections; load ratings; and the preparation of inspection and load rating reports.
04/10 – 12/16	**U.S. 290, Manor Expressway Design-Build Services, Travis County, Texas.** *Central Texas Regional Mobility Authority.* Senior Structural Engineer. Responsible for design quality assurance review of thrust restraint for large diameter pipe requiring four drilled shafts and structural steel framing near a large intersection. As part of a design-build team, Michael Baker is leading engineering services for the Manor Expressway (U.S. 290 East), a fully controlled-access,

	six-mile-long toll highway that is being constructed in the median of U.S. 290, between U.S. 183 and Parmer Lane to east of S.H. 130. The Manor Expressway will alleviate congestion and safety concerns and support the regional transportation network. Michael Baker is developing designs for the new highway, bridges, and frontage roads, including drainage systems and traffic control.
09/11 – 10/19	**Complex and Fracture Critical Bridge Inspections, Statewide, Mississippi.** *MDOT/State Aid Road Construction.* Senior Structural Engineer. Provided senior oversight to a team of engineers performing bridge inspections and load ratings. Michael Baker provided engineering services under multiple contracts for the inspection of locally-owned complex bridges of varying types throughout the state on an expedited schedule. Michael Baker's services included project management; inspection plan development; in-depth condition, appraisal, and fracture-critical inspections; load ratings; and preparation of inspection and load-rating reports. The number of bridges inspected in the multiple contracts were: 1) FY 2018 & 2019 – 166 bridges; 2) FY 2016 & 2017 – 107 bridges; 3) FY 2014 & 2015 – 101 bridges; and 4) FY 2012 & 2013 – 194 bridges.
09/11- 09/23	**5 OSARC Bridge Inspections, Statewide, Mississippi.** *Mississippi Department of Transportation.* QA/QC Engineer. Responsible for quality control. Michael Baker provided engineering services under multiple contracts for bridge safety inspection, load rating, and reporting of locally owned bridges of varying types throughout the state. Services included project management; inspection plan development; routine and in-depth condition, appraisal, and fracture-critical inspections; load ratings; and preparation of inspection and load-rating reports.

16. Staff Experience:					
Firm employed by:	Gresham Smith				
Name	**John Weres, PE**			Years of relevant experience with this employer	7
Title	Senior Bridge Engineer			Years of relevant experience with other employer(s)	36
Degree(s) / Years / Specialization			Bachelor of Science / 1980 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer - PE.0036429 / LA / September 2025		
Year registered	1985	Discipline	Civil		
Contract role(s) / brief description of responsibilities			**MPR #4:** Senior Bridge Engineer		

John's 40+-year career includes diverse structure related activities including inspection, alternatives analysis, final design and construction management and program management. Experience includes multi-level interchanges, complex geometry, truss rehabilitations and suspension bridge rehabilitations, phased construction, deep foundations, complex pier geometry, and movable bridge inspection and design. John served as Team Leader on several LA DOTD complex bridge inspections and as Project Manager for underwater bridge inspections for TDOT. NHI Certified 130055 (Team Leader), 130078 (Fracture Critical Steel), and 130092 Load Rating.

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).
06/19 – 03/20	**Complex Bridge Inspections, Statewide, Louisiana.** *LA DOTD.* Project Manager. Task Order 1. Retainer project for various bridge inspections of major river crossings. Completed hands-on inspection of fracture critical elements on several structures including the LA1 Truss over Atchafalaya River at Simmesport, LA8 Segmental Bridge over Red River at Boyce and the US165 Vertical Lift Bridge over Red River. Gresham Smith was able to complete the inspection of Bridge 005860, in Jeanerette, a steel swing truss and Bridge 009130, in Charenton, a steel swing truss – within the original budget for the initial three bridges.
04/20 – 09/20	**Complex Bridge Inspections, Statewide, LA | Task Order 2 - Emergency Bridge Repairs, US 71 in Downtown Shreveport, Louisiana.** *LA DOTD.* Project Manager. Task Order 3 - Retainer project for various movable bridge inspections. Completed hands-on inspection of fracture critical elements on several structures and coordinated the efforts of mechanical and electrical staff and served as EOR for the reports including the Bridge 006210 Vertical Lift Bridge at Loreauville, LA, Bridge 054360 Gross Tete Steel Swing Bridge and Bridge 054472 Indian Village Steel Swing Bridge in Iberville Parish. Due to cost savings on the initial 3 bridges in Task Order 2, we were able to complete the inspection of Bridge 006306, Bayside Bridge in Jeanerette, a steel swing bridge – within the original budget.
07/20 - Ongoing	**Complex Bridge Inspections, Statewide, Louisiana.** *LA DOTD.* Project Manager. Task Order 3. Retainer project for various movable bridge inspections. Completed hands-on inspection of fracture critical elements on several structures and coordinated the efforts of mechanical and electrical staff and served as EOR for the reports including the Bridge 006210 Vertical Lift Bridge at Loreauville, LA, Bridge 054360 Gross Tete Steel Swing Bridge and Bridge 054472 Indian Village Steel Swing Bridge in Iberville Parish. Due to cost savings on the initial 3 bridges in Task Order 2, we were able to complete the inspection of Bridge 006306, Bayside Bridge in Jeanerette, a steel swing bridge – within the original budget.
06/14 – 03/17 With another firm	**Complex Bridge Inspections, Statewide, Louisiana.** *LA DOTD.* Deputy Project Manager/Project Manager. Retainer project for various bridge inspections of major river crossings. Completed hands-on inspection of fracture critical elements on several structures including the Louisa Bascule Bridge in St. Mary's Parish. John served on the field inspection teams for the I-20 Mississippi River Bridge in Vicksburg and the LA 47 Bridge over the Mississippi River Gulf Outlet. Under a separate task order, John led the evaluation of US 190 Bridge over US 22, including bridge rating with AASHTOWare BrR. The study was to determine the structural adequacy of the bridge with the addition of a center median.

06/14 – 03/17 With another firm	**Florida DEP, Florida Keys Overseas Heritage Trail Historic Bridge Evaluation, Marathon, Florida.** *FLDOT.* QA/QC. Florida DEP selected Gresham Smith to inspect and evaluate two historic bridges, the Seven Mile Bridge and the Bahia-Honda Historic Truss. Both structures are closed to traffic.
06/21 – Ongoing	**MS-178 Benton County Bridges, Benton County, Mississippi.** *MDOT.* Lead Structure Engineer. John served as the Lead Design Engineer for the final design of a 2-cell box culvert and two prestressed concrete girder structures in northern Mississippi. These water crossings improved the hydraulic conditions at the sites and incorporated low-maintenance details such as jointless bridges.
11/17 – Ongoing	**Complex and Standard Bridge Load Ratings, Statewide, Tennessee.** *TDOT.* Senior Structural Engineer. John provided bridge load ratings for approximately 141 complex structures and 137 standard structures across the state of Tennessee. Complex structures were analyzed utilizing finite element methods and CSi Bridge software. The structures load rated consisted of curved steel tub girders, steel arches with steel cables supporting steel floor beam–stringer systems, deck trusses, bascule arched steel trusses, steel girder-floor beam-stringer system bridges, steel rigid K-frame bridges, and reinforced concrete rigid k-frames with spliced prestressed girders for center span bridges. The standard structures were analyzed using the AASHTOWare BrR software.
07/19 – Ongoing	**I-49 Lafayette Connector, Lafayette, Louisiana.** *LA DOTD.* Deputy Lead Structural Design Engineer. Served as Deputy Lead Structural Design Engineer for the concept design for a 4-mile-long elevated structure through an urban area. Structure concepts included post-tensioned concrete U-girders, span-by-span segmental boxes, and steel trapezoidal boxes. John coordinated the efforts of the individual design teams for each structure type and served as the public coordination lead for the structures as part of an overall community involvement plan on developing the proposed structure type for this $800M project.
04/15 – 03/17 With another firm	**State Project No. H.004367.5 – Earhart Expressway Connector, Metairie, Louisiana.** *LA DOTD.* Deputy Project Manager, Lead Structures Engineer. Preliminary and final design for a 7,000-foot urban expressway structure as part of the Earhart Expressway to Airline Highway Connector project. Preliminary design activities included a survey, SUE, development of design criteria, development of bridge typical sections, development of proposed span arrangements, and coordination with CN Railroad to place bridge piers within the railroad right-of-way.
06/15 – 03/17 With another firm	**State Project No. H.004367.5 – Earhart Expressway Connector, Metairie, Louisiana.** *LA DOTD.* Deputy Project Manager, Lead Structures Engineer. Preliminary and final design for a 7,000-foot urban expressway structure as part of the Earhart Expressway to Airline Highway Connector project. Preliminary design activities included a survey, SUE, development of design criteria, development of bridge typical sections, development of proposed span arrangements, and coordination with CN Railroad to place bridge piers within the railroad right-of-way.
03/03 – 10/06 With another firm	**Allegheny Ludlum Truss Renovation, Westmoreland County, Pennsylvania.** Project Manager. John served as lead construction manager responsible for the administration and inspection of the project. John reviewed all contractor submittals including demo and erection procedures, falsework design, change orders, material testing reports, and construction activity. This was a $2.3 million rehabilitation of a 700′ steel truss. The project included redecking, steel repairs, and full repainting. Maintaining traffic on the two-lane through truss structure at all times was a critical component as the bridge served as the only vehicular access for a specialty steel mill, and the finished rolled galvanized steel plates had to be driven across the bridge on a daily basis.

16. Staff Experience:					
Firm employed by:	Gresham Smith				
Name	**Courtney Rome, PE**		Years of relevant experience with this employer	7	
Title	Bridge Engineer		Years of relevant experience with other employer(s)	8	
Degree(s) / Years / Specialization			Bachelor of Science / 2009 / Civil Engineering		
Active registration number / state / expiration date			PE.0043355 / LA / Exp. September 2024		
Year registered		Discipline	Civil		
Contract role(s) / brief description of responsibilities			**MPR #4:** Bridge Engineer		
Courtney will support the bridge inspection, load rating, and repair plan tasks.					

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).
06/19 – Ongoing	**Complex Bridge Inspections, Statewide, Louisania.** *LA DOTD.* Engineer. As an NHI Certified Bridge Inspector, Courtney inspects various complex bridge structures throughout Louisiana, including steel trusses, concrete structures and moveable bridges.
07/19 – Ongoing	**Complex and Standard Bridge Load Ratings, Statewide, Tennessee.** *TDOT.* Project Engineer. Courtney provided a bridge load rating for approximately 141 complex structures and 137 standard structures across the state of Tennessee. Complex structures were analyzed utilizing finite element methods and CSi Bridge software. The structures load rated consisted of curved steel tub girders, steel arches with steel cables supporting steel floor beam–stringer systems, deck trusses, bascule arched steel trusses, steel girder-floor beam-stringer system bridges, steel rigid K-frame bridges, and reinforced concrete rigid k-frames with spliced prestressed girders for center span bridges. The standard structures were analyzed using the AASHTOWare BrR software.
06/21 – Ongoing	**Florida Keys Overseas Heritage Trail Historic Bridge Evaluation, Marathon, Florida.** *FLDOT, Florida DEP*. QA/QC. Florida DEP selected Gresham Smith to inspect and evaluate two historic bridges, the Seven Mile Bridge and the Bahia-Honda Historic Truss. Both structures are closed to traffic.
11/17 – 01/18	**Off-System Underwater Bridge Inspections, Statewide, Tennessee.** *TDOT.* QC Reviewer. Courtney provided quality control reviews for the inspection reports and graphics. The project included over 50 bridges throughout Tennessee
11/17 – Ongoing	**SR 178 Benton County Bridge Replacements, Mississippi.** *MDOT.* Engineer. Gresham Smith provided final design (Phase B) services for the replacement of two water crossings on parallel alignment. Both bridges include the utilization of prestressed Florida I-Beams (FIB) to maximize span lengths while minimizing structure depths. Courtney performed the deck design and beam design services for a one-span (135-foot) and three-span (80- x 100- x 80-foot) structure and also completed the design of pipe piles for the pier bents.
07/18 – Ongoing	**SR 149 Simpson County Bridge Replacements, Mississippi.** *MDOT.* Engineer. Gresham Smith is partnering with MDOT for Phase B (Final Design) for the reconstruction of S.R. 149 near D'Lo, Simpson County, Mississippi. Courtney served as Engineer-of-Record for the two longer structures (Bridge 128.2 and Bridge 128.6). This is the first instance of partial depth deck panels utilized for MDOT as a pilot to verify the ease of construction and as an accelerated (ABC) time condition.

16. Staff Experience:					
Firm employed by:	Gresham Smith				
Name	Yun Lin, PhD, PE			Years of relevant experience with this employer	7
Title				Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization			BS / 2008 / Civil Engineering; MS / 2010 / Civil ; Doctor of Philosophy / 2015 / Structures		
Active registration number / state / expiration date			Professional Engineer - PE. 0042444 / Louisiana / September 2024		
Year registered	2018	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Bridge Engineer		

Dr. Lin relocated to Louisiana in 2015 and worked with John Weres with a different firm, prior to joining Gresham Smith in 2017. Dr. Lin's experience includes bridge inspection and rating, and bridge design. Dr. Lin is a trusted advisor to Midas for adapting their finite element analysis software for complex bridge geometry.

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).
11/19 – 02/20	**Complex Bridge Inspections, District 08 Bridges, Louisiana.** *LA DOTD.* Bridge Inspector. As an NHI-certified team Leader, Dr. Lin provided bridge inspection services for the Concrete Segmental Bridge in Boyce, LA, and the LA 1 truss bridge.
01/16 – 07/17	**Complex Bridge Inspections, GNO Bridge No. 1, Louisiana.** *LA DOTD.* Bridge Inspector. Dr. Lin was an on-site inspector and prepared the New Orleans GNO Bridge No. 1 inspection report. Duties included the hands-on inspection of the fracture critical truss elements utilizing bridge access equipment.
08/16 – 03/17	**Earhart Expressway Preliminary Design, Metairie, Louisiana.** *LA DOTD.* Bridge Designer. Dr. Lin performed bridge design and evaluation for the preliminary design of a 1,500' elevated bridge structure in Metairie. Tasks included span arrangement evaluations, development of typical sections for various structure types, and foundation evaluations.
03/17 – 07/17	**Mississippi Bridge Load Ratings, Statewide, Mississippi.** *MDOT.* Designer. Dr. Lin performed load rating calculations for three bridges in Mississippi. To include the special truck load for Mississippi, he created a stand-alone bridge load rating Spreadsheet (LFR) for three bascule bridges in Mississippi. The program included all load rating vehicles, all required trucks by MDOT, as well as, permit trucks with customized axle loads.
07/19 – Ongoing	**Complex and Standard Bridge Load Ratings, Statewide, Tennessee.** *TDOT.* Project Engineer. Bridge load rating for approximately 141 complex structures and 137 standard structures across the state of Tennessee. Complex structures were analyzed utilizing finite element methods and CSi Bridge software. The structures load rated consisted of curved steel tub girders, steel arches with steel cables supporting steel floor beam – stringer systems, deck trusses, bascule arched steel truss, steel girder-floor beam-stringer system bridges, steel rigid K-frame bridges, and reinforced concrete rigid k-frames with spliced prestressed girders for center span bridges. The standard structures were analyzed using the AASHTOWare BrR software. Dr. Lin led the modeling and analysis of complex structures utilizing both CSiBridge and Midas programs where appropriate.

16. Staff Experience:					
Firm employed by:	Gresham Smith				
Name	**Jackson Hartley, EI**			Years of relevant experience with this employer	3
Title	Bridge Engineer Intern			Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			B.S. Civil Engineering, Louisiana State University, 2021		
Active registration number / state / expiration date			EI. 35058 / 09/30/24		
Year registered	N/A	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Bridge Engineer Intern		
Jackson will support the bridge inspection and bridge repair tasks.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
06/21 – Ongoing	**Complex Bridge Inspections, Statewide, Louisiana.** *LA DOTD.* Bridge Engineer Intern. Task Order 3 - Retainer project for various movable bridge inspections. Jackson began his career assisting with site inspections of movable bridges including Bridge 009130, Charington Swing Bridge, Bridge 005860 Jeanerette Swing Bridge, and Bridge 003450 Boudreaux Canal. Following graduation from LSU, Jackson has performed photo log preparation and stream bed analysis for the Boudreaux Canal Bridge. Jackson participated in the site inspections and photo documentation as a summer intern and has progressed.				
09/21 – 11/21	**MS-493 Bridge Replacements, Lauderdale County, Mississippi.** *MDOT.* Bridge Engineer Intern. Jackson is assisting bridge services during construction (Phase C) work to replace two stream crossing bridges in Lauderdale County, MS. The design includes a curved structure alignment and a sharply skewed bridge alignment. Modified FIB concrete beams, similar to DOTD's LG-25 girders, were utilized to minimize the structure depth in order to meet hydraulic requirements.				
06/21 – Ongoing	**Florida Keys Overseas Heritage Trail Historic Bridge Evaluation, Marathon, Florida.** *FDOT. Florida DEP.* Bridge Engineer Intern. Florida DEP selected Gresham Smith to inspect and evaluate two historic bridges, the Seven Mile Bridge and the Bahia-Honda Historic Truss. Both structures are closed to traffic. Jackson assisted with cataloging the drone videos and photographs and also assisted with the report formatting.				
11/22 – Ongoing	**Florida Keys Shark Channel Bridge preservation, Monroe County, Florida.** *Florida DEP.* Engineer Intern. Jackson is assisting with quantity takeoffs and cost estimates for rehabilitating a concrete spandrel arch on the Florida Keys Overseas Heritage Trail.				

16. Staff Experience:					
Firm employed by:	Gresham Smith				
Name	**Russell Childs, PE**			Years of relevant experience with this employer	2
Title	Senior Bridge Inspector / Bridge Engineer			Years of relevant experience with other employer(s)	20
Degree(s) / Years / Specialization			Bachelor of Science / 2002 / University of Mississippi		
Active registration number / state / expiration date			Professional Engineer - 17676 / MS / December 2025		
Year registered	2007	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Senior Bridge Inspector / Bridge Engineer		

Mr. Child's 20-year career was gained primarily as an employee of the Mississippi Department of Transportation (MDOT), focused on bridges. Upon graduation, Russell served seven years in the MDOT Bridge Design Division in Jackson, followed by 13 years as a bridge inspector for MDOT District 2 in Batesville, eventually serving as a 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).
06/02 – 06/09	**Bridge Design Unit.** *MDOT.* Bridge Designer. Developed preliminary bridge layouts for hydraulic structures, analysis of prestressed concrete beams, design of reinforced concrete decks, piers and abutments, and shop drawing reviews.
06/09 – 06/22	**District 2.** *MDOT.* Inspection Team Leader. Served as Inspection Team Leader on routine, special, in-depth and fracture critical inspections for all in-house bridge inspections across the Batesville District.
07/22 – Ongoing	**Complex Bridge Inspections, Statewide, Louisiana.** *LA DOTD.* Bridge Inspection Team Leader. Russell is serving as bridge inspection Team Leader for various bridge Special inspections throughout DOTD District 62. The inspections are used to develop a sound base of inspection format for future District inspectors. Russell is leading the inspection activities in the field as well as taking a leadership role in updating all AssetWise information. Bridge inspections have included prestressed concrete slabs, concrete beam bridges, railcar structures, curved steel girders and full timber bridges.

16. Staff Experience:					
Firm employed by:	Gresham Smith				
Name	**Ryan Horn, EI**		Years of relevant experience with this employer	6	
Title	Bridge Engineer Intern		Years of relevant experience with other employer(s)	3	
Degree(s) / Years / Specialization			Bachelor of Science / 2019 / Civil Engineering,		
Active registration number / state / expiration date			EI - 028076 / N/A / N/A		
Year registered	EI - 2019	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Bridge Engineer Intern		
Ryan will support the bridge inspection and bridge repair tasks. Ryan is an FAA licensed drone pilot.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
06/21 – 08/21	**Florida Keys Overseas Heritage Trail Historic Bridge Evaluation, Marathon, Florida.** *FDOT, Florida DEP.* Bridge Inspector. Ryan assisted with the bridge inspection and evaluation of two historic bridges in the Florida Keys. The bridges include the Seven Mile Bridge and the BahiaHonda Truss structures. Both bridges are closed to all use and Gresham Smith was tasked with evaluating the structures, documenting the condition and proposing rehabilitation/replacement options. Inspection activities included both visual observation from a boat and drone video documentation. Ryan served as boat operator, assistant inspector, and spotter for drone flights.				
07/19 – Ongoing	**Complex Bridge Inspections, Statewide, Louisiana.** *LA DOTD.* Bridge Inspector. Retainer project for various bridge inspections of major river crossings. Completed hands-on inspection of fracture critical elements on several structures including the Louisa Bascule Bridge in St. Mary's Parish. Ryan served on the field inspection teams for the I-20 Mississippi River Bridge in Vicksburg and the LA 47 Bridge over the Mississippi River Gulf Outlet.				
01/19 – Ongoing	**Bridge Replacement, SR 10/ US 78 at North Oconee River, Clarke County, Georgia.** *GDOT.* Bridge Engineer. Gresham Smith designed the replacement of the existing SR 10/US 78 rural bridge over the North Oconee River, which is approximately 215 feet long and 89 feet wide. We developed the environmental document with NEPA guidelines, preliminary and final roadway plans, and preliminary and final bridge plans. This project is still ongoing. Ryan was responsible for Concept layouts, Existing plan research and site visit for field measurements. Including final bridge deck, beam design and plan production. As well as designing the closed system deck drainage system and generating deck drainage calculations.				
01/19 – 01/21	**SR 10 Loop EB and WB at SR 8/US 29, PI #0013716, Georgia.** *GDOT.* Bridge Engineer. This project involves the replacement of twin bridges located along SR 10 Loop over SR 8/US 28 and West Fork Trail Creek utilizing median crossovers to allow for traffic to be maintained during all phases of construction and reduce the number of detours. Ryan was responsible for preliminary bridge plans and final bridge plans, including geometric layout, preliminary beam and deck design.				

16. Staff Experience:					
Firm employed by:	Gresham Smith				
Name	**Gabe Peer, EPA**			Years of relevant experience with this employer	5
Title	Electrical			Years of relevant experience with other employer(s)	18
Degree(s) / Years / Specialization			Electrical Apprenticeship Program / 2004 / Nashville State		
Active registration number / state / expiration date			ITC Level III Thermography Certification; OSHA Level 30 Certification; EPA 608 Certification; Fluke Data Analyzer Certified; Trane University Controls Clinic Certification; CxA Commissioning Certification		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Electrical		
Gabe will lead the electrical inspection for the moveable bridges tasks.					

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).
06/19 – Ongoing	**In-Depth Inspections of Complex Bridges, Louisiana.** *LA DOTD.* Electrical Inspector. Electrical component inspection for the current five-year retainer contract (2019-2024) to perform in-depth bridge inspections on complex and movable bridges throughout Louisiana. Gresham Smith is one of two firms performing in-depth inspections (fulfilling both routine and fracture-critical inspection types) for LADOTD. Inspections and reports are completed in accordance with the FHWA, BIRM, AASHTO MBE, AASHTO BEIM, and the LADOTD Bridge Inspection Manual (BIM) as needed. Bridge types include cantilever trusses, segmental concrete structures (with confined space inspections), movable swing span bridges and bascule bridges. Management, communication and implementation of the QC/QA plan were instrumental to this project. The following movable bridges were inspected under this program:
	LA 671 Swing Span Bridge over Bayou Teche, Jeanerette, Louisiana. *LA DOTD.* Electrical Inspector. (2021) Gabe supported the in-depth electrical inspection of this movable bridge. Electrical elements were inspected using the Engineering Evaluation Method described in the AASHTO Movable Bridge Inspection, Evaluation, and Maintenance Manual with few exceptions. The bridge was built in 1944 and included electrical distribution equipment that appeared to be over 50 years old. Most of the electrical elements showed significant signs of deterioration. Additionally, the system lacked safety measures (e.g., equipment grounding conductors) that the National Electrical Code has required for decades. Gabe detailed inspection findings and provided recommendations for remediation in the electrical portion of the multi-disciplinary inspection report.
	LA 324 Swing Span Bridge over Bayou Teche, Charenton, Louisiana. *LA DOTD.* Electrical Inspector. (2021) Gabe supported the in-depth electrical inspection of this movable bridge. The bridge was built in 1941 and included electrical distribution equipment that appeared to be over 50 years old. Electrical elements were inspected using the Engineering Evaluation Method described in the AASHTO Movable Bridge Inspection, Evaluation, and Maintenance Manual with few exceptions. Most of the electrical aspects showed significant signs of deterioration. Additionally, the system lacked safety measures (e.g., equipment grounding conductors) that the National Electrical Code has required for decades. Gabe detailed inspection findings and provided recommendations for remediation in the electrical portion of the multi-disciplinary inspection report.

16. Staff Experience:					
Firm employed by:	Gresham Smith				
Name	**Davis Cole, EI**		Years of relevant experience with this employer	5	
Title	Mechanical		Years of relevant experience with other employer(s)	1	
Degree(s) / Years / Specialization			BS / 2018 / Mechanical Engineering		
Active registration number / state / expiration date			EIT - 33946 / Tennessee / N/A		
Year registered	2018	Discipline	EI/Mechanical		
Contract role(s) / brief description of responsibilities			Mechanical Engineer Intern		
Davis will support the mechanical inspection component for movable 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).
06/19 - Ongoing	**In-Depth Inspections of Complex Bridges, Louisiana.** *LA DOTD.* Mechanical Engineer Intern. Mechanical component inspection for the current five-year retainer contract (2019-2024) to perform in-depth bridge inspections on complex and movable bridges throughout Louisiana. Gresham Smith is one of two firms performing in-depth inspections (fulfilling both routine and fracture critical inspection types) for LADOTD. Inspections and reports are completed in accordance with the FHWA, BIRM, AASHTO MBE, AASHTO BEIM, and the LADOTD Bridge Inspection Manual (BIM) as needed. Bridge types include cantilever trusses, segmental concrete structures (with confined space inspections), movable swing span bridges and bascule bridges. Management, communication and implementation of the QC/QA plan was an instrumental component to this project. The following movable bridges were inspected under this program:
	LA 671 Swing Span Bridge over Bayou Teche, Jeanerette, Louisiana. *LA DOTD.* Mechanical Engineer Intern. Davis supported the in-depth mechanical inspection of this movable bridge. With few exceptions, mechanical elements were inspected using the Engineering Evaluation Method described in the AASHTO Movable Bridge Inspection, Evaluation, and Maintenance Manual. The bridge was built in 1944 and included two sets of hydraulic machinery for the pivot pier and the live load shoes at the ends of the main span. The bridge was in good operating order, however numerous minor hydraulic leaks, paint loss, and corrosion were observed. Both oil reservoirs contained samples of sludge which may soon affect the performance of the system. Davis detailed inspection findings and provided recommendations for remediation in the mechanical portion of the multi-disciplinary inspection report.
	LA 324 Swing Span Bridge over Bayou Teche, Charenton, Louisiana. *LA DOTD.* Mechanical Engineer Intern. Davis supported the in-depth mechanical inspection of this movable bridge. The bridge was built in 1941 and is operated by two sets of hydraulic systems and machinery for the main rotation on the pivot pier and for the live load shoes at the ends of the main span. With few exceptions, mechanical elements were inspected using the Engineering Evaluation Method described in the AASHTO Movable Bridge Inspection, Evaluation, and Maintenance Manual. The swing span motor was fastened to its base by only one of four anchor bolts causing misalignment of the motor shaft and failure of the coupling connection. There were numerous accounts of dry gear teeth with wear, paint loss, and corrosion as well as shaft corrosion. The gear box speed reducer contained samples of sludge which may be affecting system performance. Davis detailed inspection findings and provided recommendations for remediation in the mechanical portion of the multidisciplinary inspection report.
	LA 56 Swing Span Bridge over Boudreaux Canal, Chauvin, Louisiana. *LA DOTD.* Mechanical Engineer Intern. Davis supported the in-depth mechanical inspection of this movable bridge. The bridge was built in 1959 and included hydraulic systems for movement of the span. Wedges were driven by electric motors, and electric motors were used to power hydraulic pumps serving the span hydraulic system.

16. Staff Experience:					
Firm employed by:	Gresham Smith				
Name	**Rebecca Murray, PE**		Years of relevant experience with this employer	8	
Title	Lead Traffic Engineer		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS / 2015 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer - P.E.0043788 / Louisiana / March 2026 Professional Traffic Operations Engineer - 4861 / Nationwide / March 2025 Road Safety Professional 1 - 611 / Nationwide / April 2026		
Year registered	PA – 2019; PTOE – 2020; RSP1 - 2021	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Lead Traffic Engineer		
Rebecca will lead the development of traffic control plans and other traffic related tasks.					

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).
6/19 – Ongoing	**Complex Bridge Inspections, Task Orders 1, 3, and 4, Statewide, Louisiana.** *LADOTD.* Engineer. Rebecca serves as the engineer assisting with the development of traffic control plans for bridge inspection in accordance with the LADOTD TTC plans. Rebecca also assists with the coordination with DOTD District Traffic Operations Engineers.
04/18 – 04/19	**I-10 Transportation Management Plan (TMP) West of 108 to I-210 Interchange, H.009620.5, Calcasieu Parish, Louisiana.** *LADOTD.* Pre-Professional. LADOTD developed design plans for the Rubblization and Overlay of I-10 from just west of the LA 108 interchange to the I-210 interchange. This project includes a full closure on I-10 diverting traffic to the ramps. This diversion required 2 cloverleaf ramps to be closed and temporary traffic signals to be installed at the ramps. Rebecca assisted with the traffic and crash analysis, and the development of the TMP documentation for this project and revision of the TMP that was performed the I-210 redecking project as well as traffic signal design plans for the traffic signals.
10/17 – 04/18	**I-10 at US 90 Lockmoor Bridge Transportation Management Plan (TMP), H.013076.5-1, Lake Charles, Louisiana.** *LADOTD.* Pre-Professional. LADOTD oversaw the design of planned bridge maintenance of the US 90 bridge that operates as an on ramp to I-10 Eastbound. This bridge crosses over mainline I-10 for both the Eastbound and Westbound directions as well as the Westbound Off Ramp and Eastbound On Ramp to/from PPG drive. We were selected to develop the TMP to identify the challenges and strategies to address these challenges in order to minimize the traffic delays associated with the lane closures, demand volumes and incidents within the construction limits. Rebecca assisted with the traffic and crash analysis and the TMP documentation.
07/18 – Ongoing	**LA 37: Sullivan Road to Liberty Road Stage 0 Feasibility Study, Baton Rouge, Louisiana.** *LADOTD.* Engineer. Collected and reviewed over 580 crash reports over a span of three years from the state highway crash database and collected ADT data on 21 segments of LA 37 and intersecting streets, peak hour turning movement counts at 12 significant intersections and 15-minute counts along 38 driveways and insignificant side streets. The reports were reviewed and evaluated using the safety triage safety tool box. Traffic analysis will be performed using HCS and Synchro and other software tools as needed. We reviewed historic traffic volume counts and TransCAD models and performed count analyses to develop regional growth rates for the study area. Rebecca assisted with review of the count data, development of growth rates, crash data analysis and traffic analysis.

16. Staff Experience:					
Firm employed by:	Gresham Smith				
Name	**Reese Hallak**			Years of relevant experience with this employer	3
Title	Mechanical			Years of relevant experience with other employer(s)	9
Degree(s) / Years / Specialization			High School Diploma / 2003 / Burleson High School		
Active registration number / state / expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Mechanical Design		
Reese will support the mechanical inspection component.					

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).
06/19 – Ongoing	**In-Depth Inspections of Complex Bridges, Statewide, Louisiana.** *LADOTD.* Mechanical Inspector. Mechanical component inspection for the current five-year retainer contract (2019-2024) to perform in-depth bridge inspections on complex and movable bridges throughout Louisiana. Gresham Smith is one of two firms performing in-depth inspections (fulfilling both routine and fracture critical inspection types) for LADOTD. Inspections and reports are completed in accordance with the FHWA, BIRM, AASHTO MBE, AASHTO BEIM, and the LADOTD Bridge Inspection Manual (BIM) as needed. Management, communication and implementation of the QC/QA plan was an instrumental component to this project.
	LA 56 Swing Span Bridge over Boudreaux Canal, Chauvin, Louisiana. Reese supported the in-depth mechanical inspection of this movable bridge. The bridge was built in 1959 and included hydraulic systems for span movement. Electric motors, drove wedges and electric motors were used to power hydraulic pumps serving the span hydraulic system. Of particular significance, the bridge suffered severe damage from Hurricane Ida approximately 4 months before inspection, and damage to the bridge's mechanical system was extensive. Mechanical elements were inspected using the Engineering Evaluation Method described in the AASHTO Movable Bridge Inspection, Evaluation, and Maintenance Manual with few exceptions.
	LA 77 Swing Span Bridge over Intercoastal Waterway, Plaquemine, Louisiana. Reese supported the in-depth mechanical inspection of this movable bridge. The bridge was built in 1961 and rehabilitated in May of 2021 with all mechanical elements found in good condition. Significant leaks were observed at the main bearing and a loose pin was found at the north live load shoe at the pivot pier. In lieu of electric motor-driven spans and wedges, the bridge utilized hydraulic systems for the movement of the span and the wedges. Electric motors were used to power hydraulic pumps.

16. Staff Experience:					
Firm employed by:	Gresham Smith				
Name	**Bert Moore, PE, PLS, PTOE**		Years of relevant experience with this employer	10	
Title	Project Executive		Years of relevant experience with other employer(s)	16	
Degree(s) / Years / Specialization			BS / 1999 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer - P.E.0031065 / Louisiana / September 2024; PTOE - 2728 / Nationwide / September 2024; PLS - 5043 / Louisiana / September 2024		
Year registered	PE - 2004; PTOE - 2009; PLS - 2010	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Quality Manager (Traffic Control)		
Project Executive / Bert will lead traffic, design, and analysis/engineering tasks for this contract.					

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).
6/19 – Ongoing	**Complex Bridge Inspections, Task Orders 1, 3, and 4, Statewide Louisiana.** *LA DOTD. Project Executive.* Bert serves as the Project Executive responsible for ensuring that all aspects of the work are performed in accordance with contract requirements. Bert also serves as the lead Traffic Engineer responsible for developing the traffic control plans and coordinating with DOTD District Traffic Engineers.
04/20 – 09/20	**Complex Bridge Inspections, Statewide, Louisiana - Task Order 2 - Emergency Bridge Repairs, US 71 in Downtown Shreveport, Louisiana.** *LA DOTD. Project Executive.* In April 2020, a train derailment damaged Bent 3 of the Spring Street Bridge, forcing the roadway closure. Gresham Smith was selected to perform the bridge repairs to open the bridge. Working with the chosen contractor, helical piles were designed to support the new column foundations and crash wall. Bert served as Project Executive (Principal) and assisted with DOTD coordination.
02/16 – 10/19	**Retainer contract for Safe Routes to Schools (SRTS) and Local Road Safety Program (LRSP), Statewide (with the majority of work in Districts 05 & 58), Louisiana.** *LA DOTD. Project Executive.* Bert served as Project Executive (Principal) for Gresham Smith's implementation of the entire contract, including that all task orders were completed on time and under budget. He ensured that Quality Assurance was properly implemented and documented on all projects. Bert's technical expertise was utilized on the following Task Orders: • **T.O. 1 – Vidalia Traffic Study, Vidalia, Louisiana.** *LA DOTD.* Project Manager. Bert worked closely with the local municipality and all stakeholders to determine all critical project issues and develop solutions that could be implemented cost-effectively to improve safety and traffic flow. • **SRTS/LRSP Task Order 2: McMillan Road Intersection Traffic Study, West Monroe, Louisiana.** *LA DOTD.* Project Manager. Bert utilized his knowledge of LADOTD's traffic signal program to identify areas for improvement in the local roadway network and to work with local officials and LADOTD Maintenance staff to identify the most appropriate intersection improvements. • **SRTS/LRSP Task Order 12: Constitution Drive Traffic Study, West Monroe, Louisiana.** *LA DOTD. Project Executive.* Bert was responsible for leading the traffic study. He oversaw the data collection and peak hour field observations, analyzed the traffic data, reviewed crash reports, developed recommended improvements, and wrote the report. Bert also led meetings with the mayor to discuss the recommendations outlined in the traffic study.

16. Staff Experience:					
Firm employed by:	KTA-Tator, Inc.				
Name	**James Kretzler**		Years of relevant experience with this employer	11	
Title	Supervisor-Other (ASNT Level III)		Years of relevant experience with other employer(s)	14	
Degree(s) / Years / Specialization			N/A		
Active registration number / state / expiration date			ASNT Level III - 186946 / MT, PT, RT, UT / October 2025 AWS Certified Welding Inspector – 07020431 / February 2025 NACE Coatings Inspector Level 1 – 54804 / September 2026		
Year registered	2020	Discipline			
Contract role(s) / brief description of responsibilities			**MPR #7:** Coatings/Corrosion/NDT		
Mr. Kretzler is KTA's NDE Department Manager and has nearly ten years of experience in this role. He provides management of NDE projects and provides training to both KTA employees and outside clients. He has provided NDE supervision services to LADOTD. Mr. Kretzler holds ASNT Level III certification in multiple disciplines, prepares NDE procedures, and has previous LADOTD experience.					

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

16. Staff Experience:					
Firm employed by:	KTA-Tator, Inc.				
Name	**Robert Lanterman**		Years of relevant experience with this employer	22	
Title	Supervisor-Other (Senior Coatings Consultant)		Years of relevant experience with other employer(s)	6	
Degree(s) / Years / Specialization			BE / 1999 / Chemical Engineering		
Active registration number / state / expiration date			NACE Certified Coatings Inspector Level 3 – 13505 / May 2025 SSPC Certified Protective Coatings Specialist - 2015-820-136 / December 2027 Valid TWIC Card - October 2025		
Year registered	2015	Discipline	Coatings		
Contract role(s) / brief description of responsibilities			**MPR #6:** Coatings/Corrosion/NDT		
Mr. Lanterman has extensive experience in performing coating condition assessment services on bridges and other industrial structures. He also provides coating system recommendations, assists with specification preparation, and develops opinions of probable costs for maintenance painting operations. He has provided coatings-related services on LADOTD projects. Mr. Lanterman holds industry certifications (NACE and SSPC), has experience providing coating condition assessment services, and has previous LADOTD experience.					
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 – 04/24	**US190 Krotz Springs Bridge, St. Landry Parish, Louisiana.** *LADOTD.* Supervisor-Other (Senior Coatings Consultant). Mr. Lanterman performed document review and coating condition assessment services for the eastbound and westbound structures. He prepared a report detailing the findings of the assessment and providing recommendations for the maintenance of the coating system on this bridge. KTA was a subconsultant to another engineering firm.				
03/22 – 03/22	**Market Street Frankford Elevated Viaduct, Philadelphia, Pennsylvania.** *South East Philadelphia Transportation Authority (SEPTA).* Senior Coatings Consultant. Mr. Lanterman evaluated the existing coating condition (visual examination, coating thickness and adhesion measurements, substrate examination, and coating sample procurement) on the eastern end of this Viaduct and provided recommendations on appropriate maintenance strategies, opinions of probable construction cost, and modification of the existing SEPTA surface preparation and coating application specifications for use in bidding the work to prospective contractors. KTA was a subconsultant to another engineering firm.				
09/21 – 12/21	**IWGO Bridge, Baton Rouge, Louisiana.** *LADOTD.* Supervisor-Other (Senior Coatings Consultant). Mr. Lanterman performed a coating condition assessment and assisted with the development of surface preparation, coating application, and environmental/worker protection and containment specifications/drawing notes for the rehabilitation of this bridge. KTA was a subconsultant to another engineering firm.				
07/20 – 08/20	**Denison Harvard Bridge, Cleveland, Ohio.** *Cuyahoga Couty (OH) Department of Public Works.* Senior Coatings Consultant. Mr. Lanterman provided coating condition assessment supervision for coatings laboratory testing, development of a maintenance painting strategy and recommendations, and development of an opinion of probable costs for the maintenance painting of this bridge. KTA was a subconsultant to another engineering firm.				
02/20 – 05/20	**Jackson Street (Red River) Lift Bridge, Alexandria, Louisiana.** *LADOTD.* Supervisor-Other (Senior Coatings Consultant). Mr. Lanterman provided coating condition assessment services, supervision of coatings laboratory testing, and report preparation for the rehabilitation of the coating system on this bridge. KTA was a subconsultant to another engineering firm.				

16. Staff Experience:					
Firm employed by:	Infinity Engineering Consultants, LLC				
Name	**John Lawrence, PE**			Years of relevant experience with this employer	2
Title	Electrical Engineering Manager			Years of relevant experience with other employer(s)	32
Degree(s) / Years / Specialization			BS / 1990 / Electrical Engineering		
Active registration number / state / expiration date			Professional Engineer – 27941 / Louisiana / September 2024		
Year registered	1997	Discipline	Professional Engineer - Electrical		
Contract role(s) / brief description of responsibilities			Electrical Engineer		

Mr. Lawrence holds over 33 years of experience in electrical engineering, project management, quality control and supervision of electrical design. Over the years, Mr. Lawrence has worked on numerous projects involving the installation of generators, lighting, and instrumentation. As Infinity's Principal Electrical Engineer, Mr. Lawrence is responsible for electrical scope development, schedule coordination, budgeting, estimating, and cost control.

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).
7/22 – Current	**Jones Creek Rd Lighting, Baton Rouge, Louisiana.** *City of Baton Rouge*. Engineer of Record. Engineer of record overseeing the electrical design, and development of drawings for roadway lighting for a greenfield project extending Jones Creek Rd from Tiger Bend Rd to Airline Hwy. The electrical designs included electrical services and roadway lighting designed to MOVEBR Design Guideline for the nearly 1.4-mile road expansion and vehicular traffic circle.
7/22 – Jan 2024	**Colony Place Street Lighting, Metairie, Louisiana.** *Jefferson Parish Government*. Engineer of Record. Engineer of record overseeing the electrical design, advanced measurements collection, and development of drawings for the installation of new street lighting along Colony Place from Eddy Road to West Metairie Ave. Initially, the 1350-foot-long route did not have established street lighting. Oversaw the design of the Power Distribution System including equipment sizing and part numbers, wiring diagrams, panelboard schedules and any associated supports for the new electrical appurtenances.
7/22 – Current	**Sewerage & Water Board West Power Complex, New Orleans, Louisiana.** *Sewerage & Water Board*. Electrical Engineer. Principal electrical engineer for the design of routing high voltage electrical distribution to the Sewerage & Water Board's proposed new West Power Complex. The electrical designs include the addition of underground electrical duct banks to run cables from the C7 interface to the substations. The electrical duct banks also required routing of the cables, location of manholes, and performance of pull calculations. Additionally, provided designs for the above ground high voltage cable routing between the utility rack and the Sycamore substation.
7/2022 – Under Construction	**Jefferson Parish Water Department New Electrical Generators, Marrero, Louisiana.** *Jefferson Parish Government*. Project Manager. Project manager for the design to upsize new backup generators from 750kW to 1MW to provide full redundant power of the system at the Jefferson Parish water plant in Marrero, LA. The additional capacity required the modification of the existing switchgear to accommodate the new size of the backup generators to allow them to provide their maximum power. The new generators were designed to be diesel powered with a new day tank connected in parallel to the existing tank by a new transfer valve.
7/22 – Out for Bid	**St. Bernard Port New Generator Installation, Chalmette, Louisiana.** *St. Bernard Port*. Project Manager. Project manager for the design and installation of a new 250kW 208/120VAC, 3ph, 4W, backup generator at the Associated Terminals office building. Once constructed, the backup generator will be skid mounted with an associated diesel tank. The new 250kW generator output feeder will be connected into a new automatic transfer switch (ATS) which will be located on a new platform via use of new conduits and cables.

16. Staff Experience:					
Firm employed by:	Infinity Engineering Consultants, LLC				
Name	**Matthew Torres, PE**		Years of relevant experience with this employer	2	
Title	Electrical Project Engineer		Years of relevant experience with other employer(s)	4	
Degree(s) / Years / Specialization			BS / 2017 / Electrical Engineering		
Active registration number / state / expiration date			Professional Engineer – 47208 / Louisiana / March 2025		
Year registered	2022	Discipline	Professional Engineer - Electrical		
Contract role(s) / brief description of responsibilities			Electrical Engineer		
Mr. Torres holds a Bachelor of Science in Electrical Engineering from Louisiana State University. Mr. Torres' previous experience includes large-scale capital projects in the oil & gas industry, nuclear power plants, and laboratory facilities. His electrical engineering focus is Power Systems and is proficient in power distribution design, specifying equipment, electrical system studies, and arc flash calculations. TWIC Card Holder					

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).
3/23 – Current	**Upper Barataria Risk Reduction Barge Gate Electrical Design.** *Lafourche Basin Levee District.* Electrical Engineer. Lead electrical engineer responsible for the electrical design and construction documents for a new 270-foot barge gate structure as part of the US Army Corps of Engineers 30-mile levee/floodwall improvements. The electrical design elements for the gate include electric utility service, stand-by-generator, navigational aids, power distribution, and controls. These designs included all electrical systems including conductors, transformers, electrical distribution equipment, and transfer switches.
7/22 – Under Construction	**Jefferson Parish Water Department New Electrical Generators, Marrero, Louisiana.** *Jefferson Parish Government*. Electrical Engineer. Project engineer for the design to upsize new backup generators from 750kW to 1MW to provide for the full redundant power of the system at the Jefferson Parish water plant in Marrero, LA. The additional capacity required the modification of the existing switchgear to accommodate the new size of the backup generators to allow them to provide their maximum power. The new generators were designed to be diesel powered with a new day tank connected in parallel to the existing day tank with a new transfer valve between both tanks.
4/24 – Current	**Lincoln Beach Redevelopment Pedestrian Access, New Orleans, Louisiana.** *City of New Orleans*. Electrical Engineer. Lead electrical engineer responsible for the electrical designs associated with redeveloping public access to the historic 16-acre Lincoln Beach site along Lake Pontchartrain. The primary access route to Lincoln Beach from the parking lot is proposed to be a 250-foot span, pre-engineered pedestrian bridge. Infinity is providing electrical design services associated with the exterior lighting of the parking lot, pedestrian bridge, and a new sewer lift station. The electrical designs for the parking lot will include Electrical vehicle hookups (220 V) as well as solar lighting.
7/2022 – Under Construction	**Westbank Water Department Generators, Marrero and Laffite, Louisiana.** *Jefferson Parish Government*. Electrical Engineer. Project manager for the design and installation of new backup power generators for two Jefferson Parish water plants, one in Marrero, LA, and the other in Lafitte, LA. Designs included improvements to operation controls and SCADA systems. In addition to the electrical engineering designs, through the commissioning of the generators, provided construction administration services.

16. Staff Experience:					
Firm employed by:	Infinity Engineering Consultants, LLC				
Name	**Bart Lacomb**			Years of relevant experience with this employer	6
Title	Electrical Designer			Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization			BS / 2007 / Electrical Engineering		
Active registration number / state / expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Electrical Engineer		
Mr. Lacomb brings over fifteen years of electrical and instrumentation experience to the Infinity team. Mr. Lacomb holds experience in providing electrical designs for a multitude of facilities, municipalities, and industrial end users. For the oil and gas industries, Mr. Lacomb has designed control and safety systems, as well as provided model development for arc flash analysis. When working on electrical designs, Mr. Lacomb seeks to collaborate with the owner and other firms involved to ensure seamless installation and usability upon completion.					

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).
1/21 – Current (Project on Hold)	**MOVEBR Jones Creek Rd Roundabout Lighting, Baton Rouge, Louisiana.** *City of Baton Rouge*. Project Electrical Designer. Under the direction of Infinity's engineer of record, assisted with Infinity's project management, electrical design, and development of drawings for roadway lighting for a greenfield project extending Jones Creek Rd from Tiger Bend Rd to Airline Hwy. The electrical designs included electrical services and roadway lighting designed to MOVEBR Design Guideline for the nearly 1.4-mile road expansion and vehicular traffic circle.
8/18 – 7/14	**Causeway Boulevard Street Lighting, Metairie, Louisiana.** *Jefferson Parish Government*. Project Electrical Designer. Under the direction of Infinity's engineer of record, assisted with the electrical design and development of drawings for the new street lighting, including lighting contactor pedestal foundation, and wiring for approximately 3/4 mile of Causeway Boulevard between the Jefferson and Airline highway overpasses. The designs involved reconfiguration of the electrical service for JP design change from high pressure sodium to LED luminaires and distribution.
7/18 – 1/19	**Dillard University Campus Improvements, New Orleans, Louisiana.** *Dillard University*. Project Electrical Designer. Under the direction of Infinity's engineer of record, assisted with the electrical design and development of drawings for a campus improvements project involving new guard shacks at entrances including security access, widening of roadways and new lighting for frontal landscape. The electrical designs also included site lighting, a new security and access system with new cameras, and sizing of electrical cables and low voltage cables.
7/19 – 12/23	**Harbor of Refuge, Empire, Louisiana.** *Plaquemines Parish Government*. Project Electrical Designer. Under the direction of Infinity's engineer of record, assisted with the electrical design and development of drawings for new grounds development involving a new building with sewage treatment, pavilions, picnic areas, and camp sites with RV connections. The electrical design included the main electrical service, site and boat slip lighting, and distribution involving stepdown transformers for servicing the main building, campsites, and pavilions.
3/19 – 8/23	**Canal Street Ferry Terminal CMAR, New Orleans, Louisiana.** *RTA of New Orleans*. Project Electrical Designer. Under the direction of Infinity's engineer of assisted with the development of electrical drawings for the new ferry terminal project. The electrical design included the temporary and permanent electrical services involving an existing electrical vault and manhole, sight lighting, illuminated signs, building lighting and electrical, fire pumps, temporary/permanent barge and gangway lighting and streetcar lighting and DC systems.

16. Staff Experience:					
Firm employed by:	Forte & Tablada, Inc.				
Name	**Bradley Holleman, PE, PLS**		Years of relevant experience with this employer	3.5	
Title	Senior Vice President, Survey/AMM		Years of relevant experience with other employer(s)	15	
Degree(s) / Years / Specialization			BS / 2009 / Civil Engineering with Minor in Land Surveying		
Active registration number / state / expiration date			Professional Land Surveyor - 5082 / Louisiana / September 2024; Professional Engineer 47165 / LA/3/31/2025		
Year registered	2012; 2016	Discipline	Land Surveying/Civil Engineering		
Contract role(s) / brief description of responsibilities			Survey		

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).
05/12 - 09/12	**H.009456 – Tchefuncte River Bridge, Tangipahoa Parish, Louisiana.** Surveyor-in-Charge. Surveyor-in-Charge for the hydrographic survey, topographic survey and existing drainage map. This project was for a bridge replacement over the Tchefuncte River in Tangipahoa Parish. This project demonstrates Brad Holleman, PLS, PE fulfillment of the Minimum Personnel Requirement.
09/13 - 03/14	**H.002375 Amite River Bridge, French Settlement, Louisiana.** Surveyor-in-Charge. Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for constructing a new bridge over Amite River in French Settlement, Louisiana to the replace the existing swing bridge. A hydrographic survey was performed on the Smite River for this project. This project demonstrations Brad Holleman, PLS, PE fulfillment of the Minimum Personnel Requirement.
03/17 - 03/18	**H004987 US 190 Collins Blvd, Covington, Louisiana.** Surveyor-in-Charge. Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for the design of capacity improvements on US 190 in Covington. This project demonstrations Brad Holleman, PLS, PE fulfillment of the Minimum Personnel Requirement.
06/23 - 08/23	**LADOTD Underwater Acoustic Imaging - LA 14 Over Delcambre Canal Hydrographic Survey, Iberia Parish, Louisiana.** *LADOTD.* Principal-in-Charge. Principal-in-Charge for the 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.
05/- 10/22	**LADOTD Underwater Acoustic Imaging, Statewide, Louisiana.** *LADOTD.* Principal-in-Charge. Principal-in-Charge for aiding in the field acquisition of multibeam hydrographic survey data of 10 bridges in South Louisiana. The bridges' locations ranged from Inner Harbor Navigation Canal in New Orleans to the Mississippi River in Baton Rouge. Data was then extracted from the multibeam data to provide depths at predetermined locations along the bridge and immediate area.
06/21 - Ongoing	**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 (4400019336).** Principal-in-Charge. Principal-in-Charge for topographic surveying and right-of-way mapping services for 20 Bridge Sites.
01/21 – 03/22	**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 (4400017598).** Principal-in-Charge. Principal-in-Charge providing topographic surveying services and right-of-way mapping services of 22 bridges in Louisiana.

05/21 – 12/22	**H.003931- Calcasieu River Bridge (HBI) – Calcasieu Parish, LA (4400010587- Task Order 18; 4400015237- Task Order 1; 4400021974- Task Orders 1, 3, and 4).** Principal-in-Charge. Principal-in-Charge for this project providing topographic survey and drainage mapping. This 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. Mr. Holleman also served as Principal-in-Charge for the boundary surveys and title take-offs for the railroad realignment of this project.
01/18 – 04/20	**H.004100 I-10: LA 415 to Essen Lane.** Surveyor-in-Charge. 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.
04/20 – 11/20	**H.000688 US 11 Norfolk Southern RR Overpass, St. Tammany Parish, Louisiana.** Surveyor-in-Charge. Surveyor-in-Charge for the topographic survey and 3D Mobile laser scanning. This project was for the design of a new US 11 overpass over Norfolk Southern Railroad.
02/20 – 08/20	**H.010652 LA 73: US 61 (Airline) to Essen Lane, Baton Rouge, Louisiana**. Surveyor-in-Charge. Surveyor-in-Charge for the topographic survey and 3D Mobile laser scanning. This project was for the design of improvements to Jefferson Highway from Airline to Essen Lane in East Baton Rouge Parish.
06/19 – 12/19	**H.011645 LA 3002 Access Management, Livingston Parish, Louisiana**. Surveyor-in-Charge. Surveyor-in-Charge for the topographic survey and 3D Mobile laser scanning. This project was for the design of a median and turnarounds on LA 3002 in Livingston Parish.
05/18 –04/19	**H.012591 I-10 Paris Road Lake Pontchartrain, New Orleans, Louisiana**. Surveyor-in-Charge. Surveyor-in-Charge for the topographic survey, 3D Mobile laser scanning and existing drainage map. This project was for the design of Interstate 10 improvements of an 8 mile stretch in New Orleans East.
03/17 – 03/18	**H004987 US 190 Collins Blvd, Covington, Louisiana**. Surveyor-in-Charge. Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for the design of capacity improvements on US 190 in Covington.
06/16 – 02/17	**H.000263 Chef Menteur Pass Bridge**. Surveyor-in-Charge. Surveyor-in-Charge 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.
12/14 – 03/16	**H.011137 & H.011152 I-12 (LA 21 to LA 59), St. Tammany, Louisiana.** Surveyor-in-Charge. Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for widening of Interstate 12 from LA 21 to La 59 in St. Tammany Parish.
06/15 – 12/15	**H.011224 US 190 Guardrail / Rutting Repair, Point Coupee Parish, Louisiana.** Surveyor-in-Charge. Surveyor-in-Charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for constructing a replacement guardrail along US 190 in Pointe Coupee Parish due to damage.
08/19-Ongoing	**H.011670- I-10/Loyola Interchange Improvements- Kenner, Louisiana.** Surveyor-in-Charge/Principal-in-Charge. Surveyor-in-Charge/Principal-in-Charge providing Topographic Survey, Right- of-Way Survey, and Drainage Survey. 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. Due to the compressed timeline of the Survey, a total of 3 Survey firms were contracted to split up the workload, with Forte and Tablada, Inc. serving as Prime Surveyor, being responsible for management and QA/QC of all Survey work. Mr. Holleman originally managed SJB Group's portion of the Survey, and is now serving as Principal-in-Charge for ongoing or new work for Forte and Tablada.

16. Staff Experience:					
Firm employed by:	Forte & Tablada, Inc.				
Name	**Ross Wilson, PLS**		Years of relevant experience with this employer	13	
Title	Senior Professional Land Surveyor		Years of relevant experience with other employer(s)	2	
Degree(s) / Years / Specialization			BS / 2010 / Geomatics		
Active registration number / state / expiration date			Professional Land Surveyor – 5148 / Louisiana / March 2026; Also Registered PLS in TX, MS, AR, FL, KY, and TN		
Year registered		Discipline	Land Surveying		
Contract role(s) / brief description of responsibilities			Survey		

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 – 12/22	**H.003931- Calcasieu River Bridge (HBI) – Calcasieu Parish, Louisiana (4400010587- Task Order 18; 4400015237- Task Order 1; 4400021974- Task Orders 1, 3, and 4)**. Surveyor-in-Charge. 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-210 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.
05/17 - 10/18	**H.004791.5 Belle Chasse Bridge and Tunnel (HBI)- Plaquemines Parish, Louisiana (4400009387- Task Orders 2 and 5)**. Surveyor-in-Charge. Surveyor-in-Charge for comprehensive topographic surveying and drainage mapping for the Belle Chase Bridge and Tunnel Replacement project for LA DOTD. 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.
08/19 - Ongoing	**H.011670- I-10/Loyola Interchange Improvements- Kenner, Louisiana.** Surveyor-in-Charge. Surveyor-in-Charge providing Topographic Survey, Right- of-Way Survey, and Drainage Survey. 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. Due to the compressed timeline of the Survey, a total of 3 Survey firms were contracted to split up the workload, with Forte and Tablada, Inc. serving as Prime Surveyor, being responsible for management and QA/QC of all Survey work. Mr. Wilson was responsible for ensuring all Survey work was completed on schedule, while also meeting all LADOTD requirements.
03/13 - 07/15	**H.004698 – Almonaster Avenue Lift Bridge – Orleans Parish, Louisiana.** Surveyor-in-Charge. Survey Manager responsible for performing topographic survey, drainage map, integration of Hydrographic data, and establishing existing right-of-way for the north line of I- 10, Almonaster Avenue, and CSX Railroad property, and terrestrial LiDAR scanning all bridge features.
10/18 - 02/19	**H.012343 Sunshine Bridge Repair – St. James Parish, Louisiana (4400010587- Task Orders 2, 3, 4, 5, and 10).** Surveyor-in-Charge. Surveyor-in-Charge responsible for establishing survey control on and near the Sunshine Bridge to use conventional and terrestrial LiDAR scanning methods to monitor the damage on the bridge. This project showcases Forte and Tablada's capability of quick response to an emergency task order, as project managers were able to meet LADOTD representatives within hours of notice and were able to mobilize multiple field crews for initial project control work that night. Monitoring efforts took place before and during construction to support engineering jacking. Post-construction as-builts and profiles of the damaged area of the bridge were also provided.

06/20 - 3/22	**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 (4400017598).** Surveyor-in-Charge. Surveyor-in-Charge for topographic surveying and right-of-way mapping services.
06/21- Ongoing	**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 (4400019336).** Surveyor-in-Charge. Surveyor-in-Charge for topographic surveying and right-of-way mapping services.
08/23 – Ongoing	**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) District 61 (4400025029).** Surveyor-in-Charge. Surveyor-in-Charge for topographic surveying and right-of-way mapping services.
08/15 - Ongoing	**H.004273.5 – I-49 Connector – Lafayette Parish, Louisiana.** *LADOTD.* Survey Manager/ Surveyor-in-Charge. Responsible for providing topographic, terrestrial LiDAR scanning, and property surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada, Inc. was able to mobilize up to 4 Survey crews on this project, in order to meet phased deadlines. This project demonstrates Mr. Wilson's ability to fulfill the minimum personnel requirement of having over five (5) years of experience in conducting topographic surveys.
12/16 - 12/19	**IDIQ Contract No. 4400009164 for Professional Surveying Services – Statewide with Majority of Work in Districts 03 and 07.** *LADOTD.* Surveyor. Performing property surveys, establishing existing right-of-way, right-of-way maps and title take-offs for LA DOTD. This contract showcases Mr. Wilson's familiarity with the process of managing an LADOTD Survey IDIQ Task Order from beginning to end.
11/18 - 3/19, 1/21 - 2/21, 12/22 - 04/23	**H.011684 LA 327 Spur: Staring Lane Extension- East Baton Rouge Parish, Louisiana (4400010587- Task Orders 1 and 16; 4400021974- Task Order 5).** Surveyor-in-Charge. Surveyor-in-Charge for a topographic survey, Terestrial LiDAR, and drainage map for this project, being approximately 1.5 miles long, in between the intersections of La 42 (Burbank Dr.) and Staring Ln. and La 327 (Gardere Ln.) and La 30.
01/18 - 06/19	**H.004100- I-10: LA 415 to Essen Lane to I-10 and I-12- East and West Baton Rouge Parishes, Louisiana (4400012323).** *LADOTD*. Survey Manager. 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.
01/23 - 01/24	**H.014218 US190-Livingston Parish Line – East Baton Rouge Parish, Louisiana (4400021974- Task Order 2).** Surveyor-in-Charge. Surveyor-in-Charge for this project providing topographic survey, Mobile LiDAR, and drainage mapping. This project is in a dense urban area and is approximately 4 miles long. The purpose of the project is to complete a road overlay and drainage improvements.
01/20 - 10/20	**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, Louisiana (4400010587- Task Orders 6, 7, and 8).** Surveyor-in-Charge. 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.

16. Staff Experience:					
Firm employed by:	Forte & Tablada, Inc.				
Name	**Brent Campbell**		Years of relevant experience with this employer	11	
Title	Advanced Measurements and Modeling Group Leader		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS / 2013 / Construction Management		
Active registration number / state / expiration date			N/A		
Year registered		Discipline			
Contract role(s) / brief description of responsibilities			Survey		

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 - 08/23	**LADOTD Underwater Acoustic Imaging - LA 14 Over Delcambre Canal Hydrographic Survey, Iberia Parish, Louisiana.** *LADOTD.* Technician. Technician for the 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.
05/22 - 10/22	**LA DOTD Underwater Acoustic Imaging, Statewide, Louisiana.** *LADOTD.* Technician. Responsible for aiding in the field acquisition of multibeam hydrographic survey data of 10 bridges in South Louisiana. The bridges locations ranged from Inner Harbor Navigation Canal in New Orleans to the Mississippi River in Baton Rouge. Data was then extracted from the multibeam data to provide depths at predetermined locations along the bridge and immediate area.
05/17 - 10/18	**H.004791.5 Belle Chasse Bridge and Tunnel (HBI)- Plaquemines Parish, Louisiana (4400009387- Task Orders 2 and 5).** Technician. Technician for multi-beam hydrographic and terrestrial LiDAR survey as part of comprehensive topographic surveying and drainage mapping for the Belle Chase Bridge and Tunnel Replacement project for LA DOTD. Included in this work was a survey performed of bridge and tunnel features.
03/13 - 07/15	**H.004698 – Almonaster Avenue Lift Bridge – Orleans Parish, Louisiana.** Technician. Responsible for performing Terrestrial LiDAR as part of a comprehensive Topographic Survey for LADOTD.
05/21 – 12/22	**H.003931- Calcasieu River Bridge (HBI) – Calcasieu Parish, Louisiana (4400010587- Task Order 18; 4400015237- Task Order 1; 4400021974- Task Orders 1, 3, and 4).** Group Leader. Responsible for this project providing Mobile and Terrestrial LiDAR, and Multibeam Hydrographic survey of Lake Charles. This project is in a high-traffic industrial area along I-210 and is approximately 7 miles long.
10/18 - 05/19	**H.012343 Sunshine Bridge Repair – St. James Parish, Louisiana (4400010587- Task Orders 2, 3, 4, 5, and 10).** 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. Major role in this project was creating a set of plans to document the damage on this bridge. These plans contained detailed information on structural strain and inconsistencies from the original plans. 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.
01/18 - 06/19	**H.004100- I-10: LA 415 to Essen Lane to I-10 and I-12- East and West Baton Rouge Parishes2, Louisiana (4400012323).** *LADOTD.* 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.

03/21 – 12/21	**MOVEBR (20-EN-HC-0003) Florida Blvd. Corridor Enhancement – East Baton Rouge Parish, Louisiana.** Mobile LiDAR Technician. 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.
08/15 - Ongoing	**H.004273.5 – I-49 Connector – Lafayette Parish, Louisiana.** *LADOTD.* Technician. Responsible for providing terrestrial LiDAR scanning for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long.
01/23 - 01/24	**H.014218 US190-Livingston Parish Line – East Baton Rouge Parish, Louisiana (4400021974- Task Order 2).** Group Leader. Responsible for management and QAQC of performing Mobile LiDAR and extraction for project providing topographic survey. This project is in a dense urban area and is approximately 4 miles long. The purpose of the project is to complete a road overlay and drainage improvements.
01/20 - 10/20	**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, Louisiana (4400010587- Task Orders 6, 7, and 8).** Technician. Technician for complete 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.
10/19 - 10/20	**Inspection of Metal Culverts - Statewide, Louisiana.** 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.
12/19 - 09/20	**H.011970- Bayou Terrebonne Bridges, Terrebonne Parish, Louisiana (4400010587- Task Order 9).** Senior Technician. Senior Technician for the terrestrial LiDAR survey of the Bayou Terrebonne bridges and surrounding area, at the intersection of LA 182 and Bayou Terrebonne.
11/19 - 12/20	**H.012083- Calcasieu River Bridge INT Repairs, Calcasieu Parish, Louisiana (4400010587- Task Orders 12, 14, and 15).** Senior Technician. Senior Technician to provide laser 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. In addition to the terrestrial scans, mobile Lidar was done for future planning.
11/18 - 3/19	**H.011684 LA 327 Spur: Staring Lane Extension- East Baton Rouge Parish, Louisiana (4400010587- Task Orders 1 and 16; 4400021974- Task Order 5).** Technician. Technician for Terrestrial LiDAR Survey for this project, being approximately 1.5 miles long, in between the intersections of La 42 (Burbank Dr.) and Staring Ln. and La 327 (Gardere Ln.) and La 30.
06/19 – 09/19	**H.000303.6- Danziger Bridge Repair, Orleans Parish, Louisiana (4400010587- Task Orders 11 and 13).** Technician. Technician for Monitoring 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.
02/17 - 03/18	**H.010753.5 US 90 / I-310 Interchange, St. Charles Parish, Louisiana (4400009387- Task Orders 1 and 3).** Project Technician. Responsible for terrestrial LiDAR Survey of approximately 2 miles along US-90 and the area of the US 90/I-310 Interchange in St. Charles Parish.
01/13 - 12/13	**H.009933 MacArthur Interchange Project Phase 1B, Orleans Parish, Louisiana.** Technician. Responsible for laser scanning general areas in support of topographical survey including location and elevation surveys, for redundancy and volume.

16. Staff Experience:					
Firm employed by:	Forte & Tablada, Inc.				
Name	**Rachel Waldroup, PLS**		Years of relevant experience with this employer	8	
Title	Professional Land Surveyor		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS / 2020 / Environment Science AAS / 2015 / Civil, Surveying, and Mapping Technology Hydrography & Marine Magnetometry in HYPACK Training / 2023		
Active registration number / state / expiration date			Professional Land Surveyor – 5277 / Louisiana / September 2024		
Year registered	2022	Discipline	Land Surveyor		
Contract role(s) / brief description of responsibilities			Survey		

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 – 12/22	**H.003931- Calcasieu River Bridge (HBI) – Calcasieu Parish, Louisiana (4400010587- Task Order 18; 4400015237- Task Order 1; 4400021974- Task Orders 1, 3, and 4).** CADD Technician and PLS. Responsible for 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-210 and is approximately 7 miles long.
09/21 – Ongoing	**IDIQ Contract No. 4400021532 for Professional Surveying Services – Statewide with Majority of Work in Districts 03 and 07.** *LADOTD.* Professional Land Surveyor. Performing property surveys, establishing existing right-of-way, right-of-way maps and title take-offs for LADOTD. This contract showcases Ms. Waldroup's familiarity with the process of managing an LADOTD Survey IDIQ Task Order from beginning to end.
06-21- Ongoing	**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 (4400019336).** CADD Technician and PLS. Responsible for topographic surveying and right-of-way mapping services.
06/20-3/22	**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 (4400017598).** CADD Technician. Responsible for topographic surveying and right-of-way mapping services.
08/15-Ongoing	**H.004273.5 – I-49 Connector – Lafayette Parish, Louisiana.** *LADOTD.* CADD Technician. Responsible for providing topographic, terrestrial LiDAR scanning, and property surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long.
08/23 – Ongoing	**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) District 61 (4400025029).** Surveyor. Surveyor for topographic surveying and right-of-way mapping services.
04/21 – 06/21	**H.014628- LA 397: Turn Lanes at Rice Mill, Calcasieu Parish, Louisiana (4400010587- Task Order 17).** Survey CADD Technician. Responsible for topographic surveying at the intersection of LA 397 and Joe Spears Rd.
03/21 – 12/21	**MOVEBR (20-EN-HC-0003) Florida Blvd. Corridor Enhancement – East Baton Rouge Parish, Louisiana.** Survey CADD Technician. Providing topographic surveying, Mobile LiDAR, and drainage mapping services. This project is in a dense urban area and is approximately 4 miles long.

2018 - 2021	**East Baton Rouge Stormwater Masterplan, East Baton Rouge Parish, Louisiana.** CADD Technician. Responsible for hydrographic surveying of bayous and creeks located within East Baton Rouge Parish for the EBR Stormwater Masterplan. The work consisted of establishing cross-sections and stream bed profiles along their length as well as locating over 14,000 subsurface structures for the purposes of hydraulic modeling.
08/19 - Ongoing	**H.011670- I-10/Loyola Interchange Improvements- Kenner, Louisiana.** CADD Technician and PLS. Providing Topographic Survey, Right- of-Way Survey, and Drainage Survey. 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.
01/18 - 06/19	**H.004100- I-10: LA 415 to Essen Lane to I-10 and I-12- East and West Baton Rouge Parishes, Louisiana (4400012323).** *LADOTD.* CADD Technician. Responsible 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.
11/18 - 3/19	**H.011684 LA 327 Spur: Staring Lane Extension- East Baton Rouge Parish, Louisiana (4400010587- Task Orders 1 and 16; 4400021974- Task Order 5).** CADD Technician. Responsible for a topographic survey, Terrestrial LiDAR, and drainage map for this project, being approximately 1.5 miles long, in between the intersections of La 42 (Burbank Dr.) and Staring Ln. and La 327 (Gardere Ln.) and La 30.
10/22 - 12/22	**Lafayette Streetscape Survey- Congress Street, Lafayette Parish, Louisiana.** Survey CADD Technician. Providing topographic and property survey to establish existing right-of-way for approximately a mile of roadway along Congress Street. This survey included mobile LiDAR scanning of all roadway features as a means of obtaining topographic data without endangering surveyors.
03/21 – 12/21	**MOVEBR (20-EN-HC-0003) Florida Blvd. Corridor Enhancement – East Baton Rouge Parish, Louisiana.** Survey CADD Technician. Providing topographic surveying and drainage mapping services. 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.
6/15 - 5/16	**Buddy Ellis Rd.- Livingston Parish, Louisiana.** Survey CADD Technician. Responsible for Topographic and Utility Survey of Forrest Delatte Rd. from LA 1026 to 447, for approximately 3.5 miles. The purpose of the project was to make repairs and improvements to the roadway, including a bridge replacement.
09/17 - 07/18	**Dunn Road Improvement, Livingston Parish, Louisiana.** Survey CADD Technician. Responsible for Topographic survey from Lockhart Rd. to Arnold Rd for approximately 2.8 miles.
6/15 - 4/16	**Forrest Delatte Rd.- Livingston Parish, Louisiana.** Survey CADD Technician. Responsible for Topographic and Utility Survey of Forrest Delatte Rd. from LA 16 to LA 1026, for approximately 1.786 miles. The purpose of the project was to make repairs and improvements to the roadway and drainage, including a bridge replacement.
3/15 - 8/15	**Livingston Drainage Improvements – Bridge Replacements- Livingston Parish, Louisiana.** Survey CADD Technician. Responsible for Surveys of George Mashon and Travis Street for the Topographic Survey and Right-of-Way mapping. The purpose of the project was to determine the feasibility of replacing bridges with culverts within the parish.

16. Staff Experience:					
Firm employed by:	Vectura Consulting Services, LLC				
Name	**Laurence Lambert, II, PE, PTOE, PTP**		Years of relevant experience with this employer	8	
Title	Supervisor- Engineer		Years of relevant experience with other employer(s)	18	
Degree(s) / Years / Specialization			MS / 2006 / Civil Engineering (Transportation focus) MBA / 2010 BS / 1997 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer – 0029901 / Louisiana / March 2026		
Year registered	2002	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Traffic Control		

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 – Current	**MOVEBR New Capacity Projects Program Management, Baton Rouge, Louisiana.** At the beginning of the program, Laurence worked with the Capital Region Planning Commission to produce measures of effectiveness from the travel demand model to prioritize the MOVEBR project list. Laurence and Pong Wu developed a list of vehicle miles traveled, V/C ratios and vehicles hours of delay. Laurence also provided peer review for the traffic studies for Ben Hur Road and Lee Drive.
06/23 - Current	**H.012845.1 Connected & Autonomous Vehicles (C/AV) Team and Working Group Support.** Laurence is a member of the team to develop new policies and legislation related to C/AV.
04/18 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger & I-10 Gonzales, Ascension, Louisiana.** Quality Control. Laurence provided a Quality Control review of the temporary construction and sequence of construction plans. Vectura also provided Quality Control review of signing and striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.
04/18 – 12/21	**H.011909.5-4 Roundabout: US 171 at Boone St., Vernon Parish, Louisiana.** Quality Control. Laurence provided a Quality Control review of the temporary construction and sequence of construction plans. Vectura also provided Quality Control review of signing and striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the Manual on Uniform Traffic Control Devices (MUTCD) details on roundabouts.
02/20 – 09/21	**College Drive Corridor Enhancement from Perkins Road to I-10, Baton Rouge, Louisiana.** Project Manager. Laurence was the project manager to develop Chapter 1 (Data Collection), Appendix A (Initial Data Collection), and Appendix B (Final Data Collection) for proposed improvements College Drive. Since the I-10 interchange was included in the study, approval from DOTD was required. Vectura collected, turning movement counts, 85% speed data, travel time runs, queue measurements, field observations, verification of Traffic Signal Inventories, and bicycle / pedestrian / transit observations.
01/23 – 02/24	**H.011504 Alexandria ITS Phase 2.** Project Manager. Laurence was the project manager for a System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan for the Alexandria area.
10/21 – 03/22	**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.

09/18 – 02/19	**H.013261.1 I-110 ITS Deployment Systems Engineering Analysis**. Project Manager. As a sub-consultant, Laurence was the task leader for the Constraints & Alternatives Analysis as well as the Projects & Procurement Strategy portion of the project. The goal of the project was to deploy Close Circuit Television (CCTV) cameras and one Dynamic Message Sign (DMS) along the I-110 corridor from US 190 to US 61. To communicate with the field devices from the Traffic Management Centers (TMCs), installing fiber optics along the I-110 corridor was recommended. The fiber optics also allow communication to the traffic signals at the interchange ramps along I-110 to the TMC.
06/12 - 12/12	**Ramp Metering Study of I-10 Segment, East Baton Rouge and Ascension Parishes, Louisiana.** Project Manager. Laurence conducted a feasibility study to deploy ramp meters along the Interstate 10 (I-10) Corridor in Baton Rouge between Dalrymple Drive and LA 73. The study consisted of analyzing 17 on-ramps under differing design conditions, which include the following: 2010 Existing, 2012 Without Ramp Meter, 2012 Ramp Meter, and 2012 Ramp Meter with Recommendations. Laurence's role in this project as project manager was to oversee all QA / QC measures and interpret the results from the model. Laurence coordinated with the local agencies to obtain all current proposed projects in the area, which included DOTD I-10 Widening Project Phases 1 and 2, the Green Light Plan (GLP) Essen Lane Widening Project, and the GLP Highland Road Widening Project.
09/16 - 04/17	**H.004957.5 I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study, St. Tammany Parish, Louisiana.** Lead Traffic Engineer. Responsible for a DOTD traffic study for the new LA 3241 alignment with the purpose of obtaining both existing and projected future traffic variables in accordance with standard operating procedures typically performed in these types of analyses. Laurence worked closely with the NORPC and District 62 to develop design year volumes using data the TransCAD model. The traffic study examined concepts that improved the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management. Laurence, along with Brin, collected 7-day, 24-hour counts w/ classification on mainlines, turning movement counts for morning and evening peak periods and speed data for mainlines. Laurence also developed a VISSIM traffic simulation model of the preferred alternative.
07/16 - 01/17	**FHWA Intersection & Interchange Geometrics: Innovative Design Considerations for All Users, Norfolk, Virginia.** At the request of the FHWA division office for Virginia, Laurence was asked to peer review a set of design plans for a Displaced Left Turn (DLT) in Norfolk, VA. The plans were part of a design-build project that included widening a corridor, modifications to an interchange and the implementation of a DLT. Vectura specifically reviewed and commented on the intersection geometry, pavement markings and signage. The findings were summarized in a technical memorandum as well as "red line" comments were scanned and submitted to the FHWA Virginia Division office for their use.
04/04 - 09/06	**Stage 0 I-10 at Pecue Lane Interchange Justification Study, Baton Rouge, Louisiana.** Lead Traffic Engineer. Laurence was the lead traffic engineer for a Stage 0 traffic study analyzing the proposed interchange at I-10 and Pecue Lane. Laurence developed current and future traffic volumes based on the CRPC TransCAD model growth rates. Using HCS, Laurence analyzed signalized and unsignalized intersections, basic freeway segments, freeway merge / diverge segments and freeway weaving segments. Laurence also developed a micro-simulation model in both VISSIM and TSIS.

16. Staff Experience:					
Firm employed by:	Vectura Consulting Services, LLC				
Name	Kristen Farrington, PE, PTOE, RSP1		Years of relevant experience with this employer	2	
Title	Engineer		Years of relevant experience with other employer(s)	7	
Degree(s) / Years / Specialization			BS / 2013 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer – 42785 / Louisiana / March 2025		
Year registered	2018	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Traffic Control		

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 - Current	**CP No. 16 CI-US-0032 Bus Rapid Transit (BRT) Improvement Project, Baton Rouge, Louisiana.** Project Engineer. Responsible for a traffic design study and traffic signal design of 19 signals along three corridors: Plank Road, 22nd Street and US 190 (Florida Street). Kristen assisted the prime consultant with the safety analysis as well.
08/21 – 04/22	**H.013267 Downtown to Scotlandville Parkway Trail Safety Enhancement Study, Baton Rouge, Louisiana.** Project Engineer. For a design study to evaluate the recommended street crossing treatments of the trail at eight locations. The project consisted of collecting vehicular speed and volume data at the proposed trail crossings. Geometric field checks were also performed to determine if any hazards to pedestrians or cyclists existed. Once the field data was collected and analyzed, appropriate crossing treatments utilizing the FHWA STEP Guide for Improving Pedestrian Safety at Unsignalized Locations were developed that included Rectangular Rapid-Flashing Beacons (RRFB) and Pedestrian Hybrid Beacons (PHB's). Currently, Vectura is developing plans for the PHB's at four locations which will be the first implementation of PHB's in the Baton Rouge area.
02/20 – 09/21	**MOVEBR College Drive Enhancement Project, Baton Rouge, Louisiana.** Kristen assisted with the data collection task 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.
06/19 - 02/21	**H.013459 US 167 Improvements Stage 0 Elsie Street to Gilbert Street, St. Landry Parish, Louisiana.** Project Manager. Responsible for a Stage 0 study to evaluate the addition of a third lane to US 167 from Elsie Street south to a point past Gilbert Drive. Environmental impacts and cost estimates were prepared, as well as a benefit- cost analysis of all improvements considered. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis. Designed high-level concept exhibits and comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes.
06/19 - 02/21	**H.013460 US 167 Improvements Stage 0 Enola Street to Ross Road, Evangeline Parish, Louisiana.** Project Manager. Responsible for a Stage 0 study of a two-lane road to remove a curvilinear section of US 167 from Enola Street near LA 748, southeast for approximately 1.2 miles. The study compared connecting existing property owners to a new roadway with driveways or intersection of old roadway. Environmental impacts and cost estimates were prepared. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis, as well as a benefit-cost analysis. Designed high-level concept exhibits and a comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes.

04/19 – 06/21	**H.013817.1 LA 117 Improvements Stage 0, Vernon and Natchitoches Parishes, Louisiana.** Project Engineer. Kristen served as project engineer responsible for a Stage 0 study for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study evaluated the impacts of correcting deficient vertical and horizontal geometry along the corridor, widening for the addition of shoulders, and adding passing lanes and turn lanes at strategic locations along the corridor. Kristen was responsible for performing the safety analysis including crash rate number method, over-representation, CAT Scan quality assurance, HSM existing safety analysis, and No-Build Analysis. Kristen designed high-level concept exhibits, evaluated environmental impacts, and prepared high level cost estimates and comparison matrices to determine which preliminary alternatives best meet the purpose and need of the project. Kristen compiled all findings in the Stage 0 report and coordinated with stakeholders and local agencies to ensure the purpose and need of project is met.
03/19 – 11/19	**H.012311 LA 429 Connector Stage 0, Ascension Parish, Louisiana.** Task Leader. Kristen was the task leader for the preparation of a Stage 0 study to evaluate alignments for a limited-access corridor (LA 429) near I-10, between LA 30, LA 73, and US 61. Two alternatives for the widening and reconstruction of LA 429 were evaluated. The scope consisted of stakeholder and public meetings, site visits and data collection, phasing of alternative development for the corridor, scope and budget checklists, and an opinion of probable cost to prepare the Stage 0 Report. Kristen served as the civil engineer responsible for designing high level concept exhibits and comparison matrix to determine the best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes, coordinated with interchange study consultants for a cohesive project, and wrote report.
11/18 - 3/21	**H.013322 LA 3040 Feasibility / Safety Study Stage 0, Houma, Louisiana**. Project Engineer. Kristen served as project engineer for a study to identify safety and operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA to evaluate reasonable alternatives to address any deficiencies discovered. Kristen was responsible for compiling a data collection plan for submittal to DOTD, including count locations, determined peak periods, and peak hours. Kristen performed peak period observations in the field and geometric field checks, as well as unmet demand observations and calculations. Kristen prepared TMC figures, as well as performed existing analysis in Vistro. Compiled all data collected into Appendices A and B per the DOTD Traffic Process and Report and wrote Chapter 1 of report. Kristen represented the project at stakeholder meetings to discuss project status.
04/18 – 04/19	**H.011243.1 I-49 at US 190 and LA 31 Interchange Improvements Stage 0, St. Landry Parish, Louisiana**. Project Engineer. Kristen was the project engineer responsible for crash and safety analysis, report writing, planning, and designing for this Stage 0 Study to evaluate alternatives to improve traffic operations and safety at the I-49 interchanges with US 190 and LA 31. Crash and safety analysis was performed using the LADOTD CAT Scan tool and IHSDM, and line and grade was prepared to DOTD Design Standards for various corridors, including arterial collectors and freeway ramps. Close coordination with traffic engineer ensured maximum improvement of safety and operations given limited right-of-way and utility conflicts along the corridors.
09/17 – 09/18	**H.011160 LA 73 Corridor Study Stage 0 LA 74 to LA 621, Ascension Parish, Louisiana**. Designer. Kristen was the designer responsible for concept development, report writing, and impact analysis for a Stage 0 study. The purpose of the study was to evaluate conceptual alternatives to improve capacity and operations along the LA 73 corridor and its connecting transportation network. The scope included the evaluation of three interchange configurations for the interchange of I-10 at LA 73 in conjunction with two corridor alternatives for LA 73, resulting in six different alternatives for which line and grade, impacts, and high-level cost estimates were prepared.

16. Staff Experience:					
Firm employed by:	Marine Solutions				
Name	John Loftus, PE			Years of relevant experience with this employer	12
Title	Bridge Inspection Team Leader/Member			Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization			BS / 2003 / Civil Engineering Dive Certificate, Minnesota Commercial Diver Training Center, 2009		
Active registration number / state / expiration date			Professional Engineer - 0049019 / Louisiana / September 2024		
Year registered		Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			MPR#9: Bridge Inspection Diver		

Mr. Loftus is a licensed professional engineer, NBIS-certified inspection team leader, and ADCI-certified dive supervisor with broad experience in inspection, assessment, rehabilitation, and hydrographic surveys of bridges and waterfront structures. He has worked as an engineer and performed over 500 bridge inspections above water and underwater and assisted in bridge repair projects. He is also experienced in post-event structure inspections. He has extensive experience in underwater 2D and 3D sonar imaging on a variety of marine and bridge structures. Many of the structures he has imaged have been published in a variety of papers and a Federal Highway Administration (FHWA) study. He is proficient in several bridge management software programs, hydrographic surveys, and acoustic imaging 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).
01/23 - 12/23	**Statewide Underwater Bridge Inspection Services, Statewide, Kentucky.** *Kentucky Transportation Cabinet (KYTC).* Bridge Inspector. John oversaw the successful execution of 53 underwater bridge inspections, including 11 National Bridge Inspection (NBI) bridge inspections and seven multibeam hydrographic surveys. He developed the scope of work, managed the overall project including scheduling, resource allocation, and budgeting, ensured safety management practices adhered to OSHA regulations and ADCI guidelines, implemented quality control measures, reviewed and approved all inspection reports, conducted regular quality assurance checks, maintained open communication with the client and stakeholders, and served as the primary contact for the client.
01/23 - 12/23	**Statewide Underwater Bridge Inspection, Statewide, Tennessee.** *Tennessee Department of Transportation.* Bridge Inspector. John ensured the accuracy and consistency of project deliverables on Level I, II, and III underwater investigations and channel soundings on 36 bridges. He developed the scope of work, managed the overall project including scheduling, resource allocation, and budgeting, ensured safety management practices adhered to OSHA regulations and ADCI guidelines, implemented quality control measures, reviewed and approved all inspection reports, conducted regular quality assurance checks, maintained open communication with the client and stakeholders, and served as the primary contact for the client, all while adhering to established TDOT policies, procedures, standards, and guidelines in the preparation and review of all deliverables.
03/24 - 05/24	**Structures Inspection Program and Miscellaneous Engineering Services, Maryland.** *Maryland Transportation Authority (MDTA).* Bridge Inspector. John successfully managed major projects by developing and implementing project plans, schedules, and budgets to ensure timely and cost-effective delivery. He coordinated and directed multi-disciplinary teams to ensure all inspection and engineering services met MDTA's stringent standards and guidelines, ensuring compliance with National Environmental Policy Act (NEPA) and Maryland Environmental Policy Act (MEPA) regulations.

16. Staff Experience:					
Firm employed by:	Marine Solutions				
Name	**Jeremy Ross Whiting, PE**		Years of relevant experience with this employer	7	
Title	Bridge Inspection Team Leader/Member		Years of relevant experience with other employer(s)	5	
Degree(s) / Years / Specialization			BS / 2011 / Civil Engineering Commercial Diver, Minnesota Commercial Diver Training Center, 2016		
Active registration number / state / expiration date			Professional Engineer - 32859 / Kentucky / June 2026		
Year registered	2017	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			**MPR#9:** Bridge Inspection Diver		

Mr. Whiting is a registered professional engineer, NBIS-certified inspection team leader, and ADCI-certified dive supervisor with a structural engineering background. His expertise is in the inspection, assessment, evaluation, and design of buildings, bridges, and marine structures. His experience includes engineering and project management for design-build projects, bridge inspections, analysis of pier foundations, designs of floating dock systems, and inspections of waterfront 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).
01/23 – 12/23	**2023 Statewide Underwater Bridge Inspection Services, Statewide Kentucky.** *Kentucky Transportation Cabinet (KYTC).* Bridge Inspector. Ross led the project team in performing 53 underwater bridge inspections, including 11 National Bridge Inspection (NBI) bridge inspections and seven multibeam hydrographic surveys. He ensured that all inspections were performed in accordance with NBIS, FHWA, and KYTC regulations. Ross managed the project team, including divers, engineers, and support staff, ensuring all work was performed safely and efficiently. He reviewed and approved all inspection reports, identified, and mitigated potential risks or issues, and maintained open communication with the client and stakeholders.
01/23 – 12/23	**2023 Statewide Underwater Bridge Inspection, Statewide, Tennessee.** *Tennessee Department of Transportation (TDOT).* Bridge Inspector. Ross led the project team in performing Level I, II, and III underwater investigations and channel soundings on 36 bridges. He ensured that all inspections were performed in accordance with NBIS, FHWA, and TDOT regulations. Ross managed the project team, including divers, engineers, and support staff, ensuring all work was performed safely and efficiently. He reviewed and approved all inspection reports, identified, and mitigated potential risks or issues, and maintained open communication with the client and stakeholders.
03/24 – 05/24	**Structures Inspection Program and Miscellaneous Engineering Services, Statewide, Maryland.** *Maryland Transportation Authority (MDTA).* Bridge Inspector. Ross led a multidisciplinary team of engineers, inspectors, divers, and technicians, ensuring that all services met MDTA's standards and guidelines. He managed the inspection and engineering services for the Francis Scott Key Bridge Collapse Emergency Response in Baltimore, MD. Ross ensured that all inspections were performed in accordance with NBIS, FHWA, and MDTA regulations.
04/23-12/23	**Underwater Bridge Inspections, Norfolk Southern Railway Company, Midwest, and Gulf Divisions.** Bridge Inspector. Ross led the project team in performing routine underwater inspections of 19 bridges located throughout Louisiana, Alabama, Kentucky, Illinois, and Missouri, as well as on-call services at four bridges in North Carolina, Virginia, and Kentucky. He ensured that all inspections were performed in accordance with NBIS, FHWA, and client regulations. Ross managed the project team, including divers, engineers, and support staff, ensuring all work was performed safely and efficiently. He reviewed and approved all inspection reports, identified, and mitigated potential risks or issues, and maintained open communication with the client and stakeholders.

16. Staff Experience:					
Firm employed by:	Marine Solutions				
Name	**Kyle Morrow, PE**		Years of relevant experience with this employer	5	
Title	Bridge Inspection Team Leader/Member		Years of relevant experience with other employer(s)	3	
Degree(s) / Years / Specialization			BS / 2015 / Civil Engineering Dive Certificate, Minnesota Comm Diver Training Ctr, 2018		
Active registration number / state / expiration date			PE # 59227, Maryland, 04/14/2026		
Year registered	2022	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			**MPR#9:** Bridge Inspection Diver		

Mr. Morrow is a licensed professional engineer, certified Bridge Safety Inspector, NBIS-qualified Team Leader, SPRAT Level II Technician, and ADCI-certified diver with a focus on the inspection, assessment, and rehabilitation of bridge structures. He has performed inspections and assessments of structures and has prepared repair and rehabilitation 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).
02/22 – 11/23	**Bridge Inspection and Assessment, NOVA District LOA 4.** *VDOT Northern Virginia District.* Supervisor. Responsible for assisting with the project's planning and execution, on-site safety, staff supervision, and coordination with the client. The project consisted of performing underwater bridge inspections and preparing inspection reports.
02/22 – 11/22	**Bridge Inspection and Assessment, NSA Bahrain & NAVSTA Guantanamo Bay Cuba.** *Naval Facilities Engineering Command*. Supervisor/SPRAT Rope Access Technician. Responsible for planning and execution of the project, on-site safety, staff supervision, coordination with the client and performing rope access inspections. The project consisted of performing biennial inspections of one complex bridge in NSA Bahrain (407 ft. long) and two fracture-critical bridges in NAVSTA Guantanamo Bay, Cuba (196 ft. and 196 ft. long). All three inspections included the use of industrial rope access techniques, boats, flaggers for lane closures, and the bridges in Cuba included underwater inspections. Each inspection required a detailed report.
02/21 – 10/21	**Bridge Inspection and Assessment, Naval Facilities Engineering Command, Southeast Region, US.** Engineer Diver. Responsible for performing underwater inspections, on-site safety, assisting with field operations, recording field notes, and report preparation. The project consisted of performing the biennial inspection of four bridges at NAS Pensacola, FL; two bridges in NAS Key West, FL; four bridges in NAS Whiting Field, FL; five bridges in SUBASE Kings Bay, GA; six bridges in NAS JRB New Orleans, LA; five bridges in NAS Meridian, MS; and one bridge in NCBC Gulfport, MS. Two of the inspections included an underwater inspection and nine bridges required calculation of load ratings.
02/21 – 11/21	**Bridge Inspection and Assessment, Naval Facilities Engineering Command, Japan & Guam.** Supervisor. Responsible for assisting with planning and execution of the project, on-site safety, staff supervision, and coordination with the client. The project consisted of performing the biennial inspections of 21 bridges, including 10 bridges in NAVBASE Guam and 11 bridges in CONFLEACT Yokosuna, Japan and Sasebo, Japan.
02/20 – 10/20	**SPRAT Services, U.S. 340 Bridge Fracture Critical Inspection, MDOT SHA, Sandy Hook, Maryland.** Inspector. Responsible for performing fracture critical bridge inspections and assisting with on-site assessments per NBIS. The project consisted of providing SPRAT-trained personnel to assist the client with a fracture critical bridge inspection.

16. Staff Experience:					
Firm employed by:	Marine Solutions				
Name	**Brad Koch, PE**		Years of relevant experience with this employer	1	
Title	Bridge Inspection Team Leader/Member		Years of relevant experience with other employer(s)	7	
Degree(s) / Years / Specialization			BS / 2019 / Civil Engineering Commercial Diver, Minnesota Commercial Diver Training Center, 2015		
Active registration number / state / expiration date			Professional Engineer – 0063579 / Colorado / October 2025		
Year registered	2023	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Inspector Diver		
Mr. Koch, a Civil Engineer/Engineer-Diver, possesses expertise in examining bridge structures, waterfront facilities, ancillary constructions, and retaining/sound wall structures, both above and underwater. His inspection proficiency is enhanced by his roles as an ACDI Surface-Supplied Air Diving Supervisor and an NDT Certified Level II Ultrasonic and Magnetic Particle Tester. He has an extensive background in conducting underwater assessments and engaging in commercial diving activities.					
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 – 10/24	**Arthur Kill Lift Bridge Inspection, New York, New York.** *New York City Economic Development Corporation.* Engineer, Diving Inspector, and Rope Access Inspector. Responsible for safely performing the routine, underwater, and climbing bridge inspections. The project consisted of performing a routine inspection of the entire bridge, an underwater inspection of the below water bridge components, and a fracture critical inspection of the lift span superstructure utilizing rope access techniques. The inspection was performed safely, on schedule, and within budget.				
06/24 – 08/24	**Routine Inspection, Hudson River Park Trust, Pier 25, New York, New York.** Engineer Diver. Responsible for performing underwater inspections, assisting with field operations, recording field notes, and report preparation. The project consisted of performing an underwater and above water inspection and report development at Pier 25.				
07/20 – 06/24	**Ancillary and Minor Structure Inspections, Statewide, Colorado.** *Colorado DOT.* Team Leader/Project Engineer. Responsible for leading inspection teams and report reviews. The project included the routine and reduced frequency inspections and BrM input of over 2,100 sign, signal, and minor structures on state roadways and highways located within CDOT's right of way from October 2020 to the present. Element level inspection was performed on all structures, and essential repair findings and maintenance recommendations were provided. Non-destructive testing, including ultrasonic testing and magnetic particle testing, was used to supplement visual inspections when needed.				
06/21 – 12/23	**Off-System Bridge Inspections, Central Area, Colorado.** *Colorado DOT.* Team Leader/Project Engineer. Responsible for leading bridge inspection teams. The project included the routine bridge inspection and BrM input for off-system bridges in CDOT Central Area; 330 were inspected from 2021 to 2022, and 321 will be inspected from 2022 to 2023. Bridge materials included timber, reinforced and prestressed concrete, and Steel. Certified team leaders lead each team and SPRAT rope access techniques were utilized on fracture critical bridges when needed. Reports included maintenance recommendations for each bridge, and when found, Essential Repair Findings were submitted to the client and owner with detailed findings and repair recommendations documented. Final submittals with inspection findings and a discussion of major issues were completed with each bridge owner throughout the contract, consisting of approximately 15 different owners.				

16. Staff Experience:					
Firm employed by:	Marine Solutions				
Name	**Anderson Potter, PE**			Years of relevant experience with this employer	2
Title	Bridge Inspection Team Leader/Member			Years of relevant experience with other employer(s)	9
Degree(s) / Years / Specialization			MS / 2017 / Structural Engineering BS / 2012 / Civil Engineering		
Active registration number / state / expiration date			Professional Engineer - 10854291 / Utah / March 2025		
Year registered	2018	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Inspector Diver		

Mr. Potter is a professional engineer, NBIS qualified inspection team leader, AWS Certified Welding Inspector (CWI), and SPRAT Level 1 technician with over 11 years of experience in the inspection, assessment, load rating, and design of bridge structures. He has served as a program manager, project manager, and lead inspector for numerous bridge inspection contracts which have included routine, underwater, NSTM, SPRAT, and complex bridge inspections as well as bridge load ratings. He is experienced in complex logistics required to perform bridge inspections in remote locations as well as emergency and post-event structural investigations (including post seismic event investigations). Mr. Potter's inspection, analysis, and design experience is supplemented by advanced knowledge of drone inspection technology, techniques, and post-processing software applications, bridge management software applications, and NDE technologies including timber resistance drilling, ultrasonic testing, and magnetic particle 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).
02/23 – 10/23	**Bridge Inspection and Assessment, Southeast Region,** *U.S. Naval Facilities Engineering Command.* Project Manager. Andy managed the project teams and performed routine inspections of 31 highway and pedestrian bridges, including underwater inspections. He ensured that all inspections were performed in accordance with NBIS, FHWA, and client regulations. Andy scheduled and oversaw the project teams, including divers, engineers, and support staff, ensuring all work was performed safely and efficiently. He reviewed and approved all inspection reports, identified, and mitigated potential risks or issues, and maintained open communication with the client and stakeholders.
06/22 – 05/24	**Bridge Inspection & Assessment, Statewide, MD.** *Maryland State Highway Administration (MDOT SHA).* Lead Bridge Inspector. Responsible for bridge inspection and development of project submittals. The project consisted of the inspection of MDOT SHA bridge structures, including climbing and underwater inspections. The services also included development of inspection reports and input of data into MDOT SHA's database.
07/22 – 10/23	**Bridge Inspection & Assessment, Fort Campbell, KY.** *U.S. Army Corps of Engineers (USACE).* Project Manager and Lead Engineer. Responsible for assisting with planning and execution of the project, on-site safety, staff supervision, and coordination with the client. The project consisted of performing the routine above water inspection of 16 bridges and the routine underwater inspection of 4 bridges.
03/21 – 09/21	**Fracture Critical Bridge Inspections, Multiple Locations, California.** *US Forest Service.* Project Manager and Team Leader. Responsible for project management and coordination, inspection, and stamping of final reports. Project included 6 fracture critical bridge inspections for the USDA Forest Service Region 5 (Pacific Southwest Region). SPRAT rope access climbing techniques were utilized to perform an arm's-length inspection of the bridges. Rope access climbing was utilized instead of using an UBIT due to UBIT's being unable to navigate the windy and steep access roads. A team of two rope access climbers performed the inspections. The project team provided the client with an inspection schedule, a job hazard analysis, fracture critical inspection, field inspection, and reporting. The 6 bridges were located in the Lassen, Tahoe, Eldorado, and Klamath National Forests.

SECTION 17

FIRM EXPERIENCE

FIRM EXPERIENCE
MICHAEL BAKER INTERNATIONAL, INC.

17. Firm Experience:					
Firm name	Michael Baker International, Inc.		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	**Hernando DeSoto Inspection and Emergency Repairs**		Firm responsibility (prime or sub?)	Prime	
Project number	Multiple	Owner's name	Arkansas Department of Transportation (Tennessee Department of Transportation)		
Project location	Memphis, Tennessee		Owner's Project Manager	Andy Nanneman	
Owner's address, phone, email	10324 I-30, Little Rock, AR 72209 | 501-569-266 | Andrew.Nanneman@ardot.gov				
Services commenced by this firm (mm/yy)	03/23	Total consultant contract cost ($1,000's)	ARDOT: $1,800 TDOT: $1,480		
Services completed by this firm (mm/yy)	05/24	Cost of consultant services provided by this firm ($1,000's)	ARDOT: $1,643 TDOT: $1,300		

Michael Baker performed a hands-on structural inspection of the two main arch truss spans of the Hernando DeSoto Bridge, which carries I-40 over the Mississippi River between Memphis, Tennessee, and West Memphis, Arkansas. Michael Baker's services included project management, coordination with all project stakeholders, document review, access plans, safety plans, hands-on inspection performed using both aerial lifts and rope access methods, and inspection report preparation. The 2023 inspection cycle also included extensive non-destructive ultrasonic testing of existing steel welds.

Emergency Repairs: Michael Baker provided emergency design and engineering services to repair the Hernando de Soto Bridge. The bridge includes a two-span continuous 1,800-foot steel tied arch structure that carries Interstate 40 (I-40) across the Mississippi River. As one of only two crossings of the Mississippi River in the Memphis area, the bridge is a vital transportation, commerce, and defense link, carrying approximately 60,000 vehicles daily.

Michael Baker collaborated with TDOT and devised a three-phase plan for the Hernando de Soto Emergency Bridge Repairs project. Phase 1 consisted of the design and installation of temporary stabilization plating and was completed within 14 days of the closure (May 25, 2021). Phase 2 used post-tensioning to reduce the stresses in the tie and fully bolt repairs over the fracture and 150 feet of length of the tie girder. This innovative use of post-tensioning allowed for the repair to be completed in place, rather than shoring the bridge and de-tensioning the tie by other means, cutting high costs and time from the project: Phase 2 was completed only 53 days after the closure (July 3, 2021). The third and final phase addressed additional defects noted in the tie during the inspection and was completed on July 31, 2021. The same day, all I-40 eastbound lanes opened, and on August 2, 2021, all westbound lanes opened–just 83 days after the initial discovery of the fracture.

Both ARDOT and TDOT share responsibility for the bridge: ARDOT handles inspections, and TDOT handles repairs. Michael Baker provided inspection services for the portions of the bridge above deck, including the arch ribs and hangers, for ARDOT. The firm also served as the designer of all three phases of repair for TDOT.

Team Members Who Worked on This Project:

- **Ellis Luke McMahen, Christopher Princiotta,** Aaron Stover, Adam Wriston, Joseph Brach, Albert Ho

17. Firm Experience:					
Firm name	Michael Baker International, Inc.		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	**OSARC Statewide Bridge Inspection**		Firm responsibility (prime or sub?)	Prime	
Project number	Multiple	Owner's name	Mississippi Department of Transportation		
Project location	Statewide, Mississippi		Owner's Project Manager	Harry L. James	
Owner's address, phone, email	401 North West Street Jackson, MS 39201 | 601-359-7150 | mail@osarc.state.ms.us				
Services commenced by this firm (mm/yy)	09/11 with multiple contract renewals		Total consultant contract cost ($1,000's)	$24,227	
Services completed by this firm (mm/yy)	Ongoing		Cost of consultant services provided by this firm ($1,000's)	$23,111	

Michael Baker provided inspection and engineering services under multiple contracts for the National Bridge Inventory bridge safety inspections, load rating, and reporting of bridges with varying superstructure types, primarily, timber substructures. Michael Baker's services included project management, development of inspection plans, routine and in-depth condition and appraisal inspections, load ratings, and preparing inspection and load-rating reports. The bridges were located on local road systems owned and maintained by various Mississippi counties, cities, and towns. **Michael Baker inspected 2,020 bridges over 12 years, from FY 2012 to FY 2024.**

The projects' purpose was to perform safety inspections and load ratings of selected bridges throughout the state. Superstructure types included truss bridges, continuous plate girder, and steel girder bridges, railroad flat cars, movable bridges, bridges with prestressed concrete beams, concrete T-beams, concrete slab spans, precast channel beams, and timber bridge spans.

Michael Baker performed the inspections in accordance with the FHWA NBIS. It prepared and submitted a bridge inspection plan for each bridge, including the location of fracture-critical members, the fracture-critical inspection frequency as required by federal guidance, and specific fracture-critical inspection procedures. The plans also included any specialized inspection procedures and additional inspector training or experience needed to inspect the bridges.

Following each bridge inspection, Michael Baker prepared an inspection report that included condition and appraisal ratings in accordance with the AASHTO Manual for Bridge Evaluation and Manual for Bridge Element Inspection and the Federal Highway Administration's Inspection of Fracture Critical Bridge Members and Bridge Inspector's Reference Manual. The inspection reports included drawings and photographs of all defects and load ratings.

The superstructure's load ratings were performed using AASHTOWare's BrR™ software. The timber substructures' load ratings used an extensive spreadsheet and calculation methods developed by Michael Baker. Michael Baker load-rated the bridges for inventory and operating loads, state legal-load vehicles, permit-load vehicles, and special haul vehicles.

The project deliverables included inputting inspection notes, sketches, photographs, load rating computations, weight restriction recommendations, and AASHTOWare BrR™ files into the department's AssetWise system.

Team Members Who Worked on This Project:

- **Ellis Luke McMahen, Nathaniel Joseph, Christopher Princiotta,** Joseph Brach, Daniel Fint, Robert Frye, Joshua Derechin, Jeffrey McRae, Shalin Sheth

17. Firm Experience:							
Firm name	Michael Baker International, Inc.			Past Performance Evaluation Discipline(s)*		Bridge	
Project name	**Statewide On- and Off-System Routine Safety Bridge Inspections**				Firm responsibility (prime or sub?)		Prime
Project number	Multiple		Owner's name	Texas Department of Transportation			
Project location	Statewide, Texas			Owner's Project Manager		Mark Wallace	
Owner's address, phone, email	6230 East Stassney Lane, Austin, TX 78744 | 512-673-2984 | mark.wallace@txdot.gov						
Services commenced by this firm (mm/yy)		09/15		Total consultant contract cost ($1,000's)			$15,300
Services completed by this firm (mm/yy)		Ongoing		Cost of consultant services provided by this firm ($1,000's)			$17,000

Michael Baker has held four consecutive contracts with a combined 29 work authorizations, more than 9,800 bridge inspections, and a contract value of $9.6 million since 2015. The work included inspections of decks; concrete, prestressed concrete, and steel girders; inspections of concrete and steel substructures, including straddle bents; determining condition ratings; report writing and updating owner's database; performing load ratings; and making repair recommendations. Michael Baker planned and scheduled this field work to maximize efficiency in mobilization and demobilization. In case of a busy roadway, it coordinated traffic control plans with the district to schedule lane closures, minimize disruption, and create a safe work environment. The district's terrain, or large storm events, often required over-the-water access to inspect the undersides of the bridges. Michael Baker's bridge inspection vehicles featured mobile boats to provide safe access and thorough inspection underneath the bridges.

The contract includes initial and routine safety inspections throughout Texas for prestressed concrete beam or girder bridges, reinforced concrete T-beam/pan girder bridges, reinforced/prestressed concrete slab bridges, box culverts, and steel multi-girder/beam bridges. In support of the inspections, Michael Baker prepares inspection reports, identifies deficiencies or damage, performs load rating and posting calculations, identifies deficiencies for maintenance, coordinates traffic control requests and railroad access, and updates the AssetWise inspection database.

Team Members Who Worked on This Project:

- **Danny Contreras,** Don Harris, Jesus Armendariz, Nathaniel Joseph, Jason Taylor

On-Time Project Delivery: Michael Baker was assigned overlapping TxDOT routine and fracture critical structure inspections in Dallas while Houston routine inspection fieldwork was ending. The overlapping was required expedited planning due to a short timeframe between WA execution and inspections beginning. Don overcame limited team availability due to the holiday season by engaging a trusted subconsultant to handle a significant portion of the Dallas inspections and increased the size of the Michael Baker team working on the other inspections in Houston and Dallas, ensuring we successfully completed all WAs on time.

17. Firm Experience:							
Firm name	Michael Baker International, Inc.			Past Performance Evaluation Discipline(s)*		Bridge	
Project name	**Statewide Bridge Safety Inspections**				Firm responsibility (prime or sub?)		Prime
Project number	Multiple	Owner's name		Tennessee Department of Transportation			
Project location	Statewide, Tennessee			Owner's Project Manager		Rebecca Hayworth	
Owner's address, phone, email	505 Deaderick St #700, Nashville, TN 37243 | 615-253-2448 | Rebecca.Hayworth@tn.gov						
Services commenced by this firm (mm/yy)		07/22		Total consultant contract cost ($1,000's)			N/A
Services completed by this firm (mm/yy)		Ongoing		Cost of consultant services provided by this firm ($1,000's)			$2,500

Michael Baker has been serving TDOT under this contract for a wide array of bridge maintenance projects for nearly two years. To date 14 work orders have been received. They include inspection, emergency inspection and analysis, load rating, bridge repair design, and bridge inspection manual development. Relevant to this contract are the following work orders:

Team Members Who Worked on This Project:

- **William Gwaltney, Brian Rhett,** Daniel Fint, Stephen Fowler, Timothy Franciosa, Robert Frye, Ralph Gromley, Paul McGuinness, Aaron Stover, Shawn Watrous, Adam Wriston

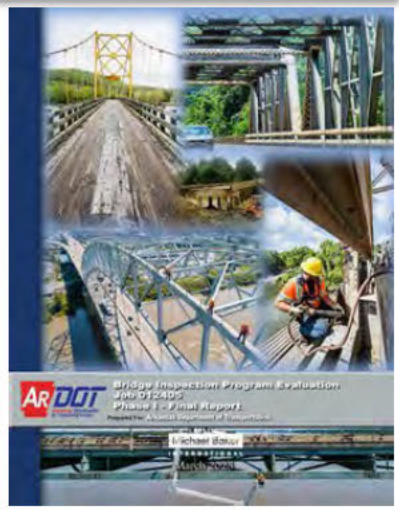
- **Tunnel Inspections and Manual Development:** Throughout 2023, Michael Baker inspected 9 different tunnels for TDOT, produced the inspection reports, coordinated a subconsultant for mechanical and electrical inspections, coordinated geology testing on the Backbone Rock Tunnel, and updated all Tunnel Inspection Plans for TDOT's future use. In addition, our team authored TDOT's "Tunnel Inspection Program Procedures and Evaluation Manual".
- **NSTM Plan and Manual Development:** Our team has developed NSTM plans for all TDOT's 145+ NSTM bridges across the state. These plans walk through the specifics of the NSTM portion of each bridge, including access, and call attention to areas that need special attention during the inspection. In addition to the bridge-specific inspection plans, Michael Baker is developing the NSTM portion of TDOT's bridge inspection manual. It includes general NSTM requirements, best practices, and detailed procedures for each of the major NSTM types in TDOT's inventory (Railroad Flatcars (RRFC), Tub Girders, Floor Systems, Trusses, and Pier Caps).
- **Shelby County Truss Inspections:** Five trusses throughout Shelby County were inspected in April 2023. Traditional access methods such as ladders and climbing were used to ensure the required hands-on inspection of all NSTM members. One team lead and two assistant team leads inspected all five bridges on a single trip.
- **Dyer County Railroad Flatcar Inspections:** Our team brought expertise with railroad flatcars for six different structures. Our team used our rope access certified capabilities to set up a pick board to allow for hands-on inspection of all NSTM members, including the numerous fatigue-prone details. Our inspections yielded two bridges that required return trips to monitor a sag in one and inspect further for a structure that needed debris plates removed for full hands-on inspection, which was completed in early 2024.
- **Region 2 & 3 Inspections:** Our team is currently conducting 13 inspections of varying complexities. Eight inspections of varying complexities have already taken place, including rope access methods on a historic truss, the use of UAS scanning, NSTM inspections, culvert and girder inspections, and underwater inspections. Five additional inspections will take place in September and October.
- **Gay Street Emergency Inspection:** After the Gay Street Bridge was closed in Knoxville, TN, due to misaligned primary members, TDOT immediately contacted Michael Baker to bring rope access methods to inspect the misalignment while avoiding heavy snoopers on the bridge. Michael Baker is continuing to analyze the bridge to determine its capacity.

17. Firm Experience:					
Firm name	Michael Baker International, Inc.		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	**Bridge Inspection Program Evaluation**		Firm responsibility (prime or sub?)	Prime	
Project number	Multiple	Owner's name	Arkansas Department of Transportation		
Project location	Statewide, Arkansas		Owner's Project Manager	Andy Nanneman	
Owner's address, phone, email	10324 I-30, Little Rock, AR 72209 | 501-569-266 | Andrew.Nanneman@ardot.gov				
Services commenced by this firm (mm/yy)	08/22	Total consultant contract cost ($1,000's)		$633	
Services completed by this firm (mm/yy)	07/24	Cost of consultant services provided by this firm ($1,000's)		$611	

Michael Baker is working to determine the criteria for selecting a list of major bridges from the Arkansas Department of Transportation (ARDOT)'s bridge inventory. Phase I of this project involved establishing a baseline for the client's recent and current bridge inspection program by reviewing their Bridge Inspection Manual and numerous supporting documents noting areas for improvement. In Phase II, Michael Baker determined the criteria, methodology, and thresholds for prioritizing and selecting 200 bridges from the client's state-owned bridge inventory for a high-level evaluation of repair or replacement needs, including budgetary cost estimating for the next 20 years. Phase II also entails the development of a stand-alone load rating manual.

Team Members Who Worked on This Project:

- **Brian Rhett**, Paul McGuiness, Timothy Franciosa



Phase I - Baseline Review: Michael Baker established a baseline by reviewing client documentation noting areas for improvement. The comprehensive cover to cover review included ARDOT's Bridge Inspection Manual, memorandums or addendums that supplement the Bridge Inspection Manual, the Load Rating and Posting Manual, local government procedures for compliance with the National Bridge Inspection Standards (NBIS), the Federal Highway Administration (FHWA)'s Bridge Inspection Program Assessment for ARDOT, Hernando de Soto Bridge Emergency Repair and Inspection After Action Report, and ARDOT's Action Plan to respond to FHWA's comments.

Phase IIA – Criteria and Selection: Using the most currently available Structure, Inventory, and Appraisal (SI&A) data for state bridges, Michael Baker considered many factors and then determined the factors, criteria, and scoring methodology used to sort all bridges and select 200 major bridges anticipated to require the highest maintenance, repair, or rehabilitation costs over the next 20 years. The team utilized 22 different factors including year built or reconstructed, number of lanes, historical significance, navigation control, type(s) of service under the bridge, type of construction, bridge length, maximum span length, deck width and area, deck, superstructure and substructure - condition ratings, load rating, and average daily traffic.

Phase IIB – High-Level Evaluation of Repair Needs with Budgetary Cost Estimate: Using the list of bridges from Phase IIA, Michael Baker is responsible for performing a high-level evaluation of maintenance, repair, rehabilitation, and potential replacement needs and a budgetary cost estimate for the next 20 years. The team is responsible for using element-level data and ballpark unit pricing for major elements and for determining a budgetary cost to improve and keep those bridges and elements from poor condition.

Phase IIC – Development of a Stand-Alone Load Rating Manual: Michael Baker is developing a stand-alone Load Rating Manual to address and update bridge load ratings and bridge evaluation with current practices, policies, and Arkansas laws for publishing by the ARDOT Bridge Division. The manual will include bridge evaluation processes and quality assurance/quality control (QA/QC) processes. Michael Baker is responsible for project administration, drafting fifteen chapters and appendices, QA/QC processes, drafting and photos, and delivering the final revised draft based on comments from stakeholders.

FIRM EXPERIENCE
GRESHAM SMITH

17. Firm Experience:					
Firm name	Gresham Smith		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	**Complex Bridge Inspections IDIQ – Movable Bridges, Routine QC Inspections, and Emergency Repairs**		Firm responsibility (prime or sub?)	Prime	
Project number	4400013322 – Various Task Orders	Owner's name	Louisiana Department of Transportation and Development		
Project location	Statewide, Louisiana		Owner's Project Manager	Haylye Browne	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA | 225.379.1205 | haylye.brown@la.gov				
Services commenced by this firm (mm/yy)	10/19	Total consultant contract cost ($1,000's)		$2,900	
Services completed by this firm (mm/yy)	01/24	Cost of consultant services provided by this firm ($1,000's)		$1,700	

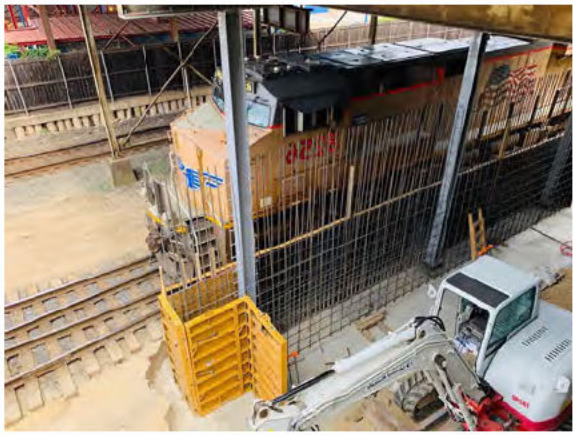
Movable Bridges: Our Gresham Smith team inspected eight moveable bridges including full structural, mechanical, and electrical inspections. These structures included US 165B Vertical Lift Bridge over Red River, steel plate girder swing spans over Bayou Teche and Boudreaux Canan, and steel truss swing spans over Bayou Teche

Routine QC Inspections: Our most recent task order assignments included QC type inspections of over 90 timber and steel routing bridges in District 62. These inspections were completed to rectify quality control issues with past inspections and to establish a quality base inspection format for future inspections of these structures.

Team Members Who Worked on This Project:

- **John Weres, Courtney Rome,** Yun Lin, Russell Childs, Bert Moore, Ryan Horn, Jackson Hartley, Gabe Peer

Emergency Repairs: When a train derailment critically damaged the US 71 bridge in downtown Shreveport, Gresham Smith was selected to perform an emergency evaluation of the damage and to design temporary supports and permanent repairs to preserve this historic structure. Gresham Smith worked closely with the DOTD and the selected contractor to expedite the design and reopen this major roadway in Shreveport, LA.



17. Firm Experience:					
Firm name	Gresham Smith		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	**Complex Bridge Inspections IDIQ – Major River Crossings**		Firm responsibility (prime or sub?)	Prime	
Project number	4400013322 – Various Task Orders	Owner's name	Louisiana Department of Transportation and Development		
Project location	Statewide, Louisiana		Owner's Project Manager	Haylye Browne	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA / 225.379.1205 / haylye.brown@la.gov				
Services commenced by this firm (mm/yy)	10/19	Total consultant contract cost ($1,000's)	$2,700		
Services completed by this firm (mm/yy)	01/24	Cost of consultant services provided by this firm ($1,000's)	$1,800		

Major River Crossings: Major complex inspections for river crossings inspected by the Gresham Smith team included LA 1 Truss over Atchafalaya River, the LA 8 Concrete Segmental Bridge in Boyce, and in 2022, Gresham Smith led the in-depth inspection of the I-20 Mississippi River Bridge in Vicksburg.

Team Members Who Worked on This Project:

- **John Weres, Courtney Rome,** Yun Lin, Russell Childs, Bert Moore, Ryan Horn, Jackson Hartley

Various access and inspection techniques were utilized for the I-20 Mississippi River Bridge at Vicksburg. The team used rope access for a majority of the truss structure. For the mile-long approach spans, a man lift was utilized for the western portion, and manual and boat access was also utilized. Lane restrictions for a UBI vehicle were restricted to weekends only, and the UBI was utilized to access the large steel girders. Drone inspections were used to supplement the hands-on inspections. Fatigue-prone details were evaluated, including crack penetration testing.
For the LA 8 Concrete Segmental Bridge in Boyce, a UBI was utilized to inspect the exterior of the boxes. At the same time, a confined space inspection was conducted for the interior of the boxes. The confined space inspection plan addressed ventilation, lighting, emergency response, and rescue plans.

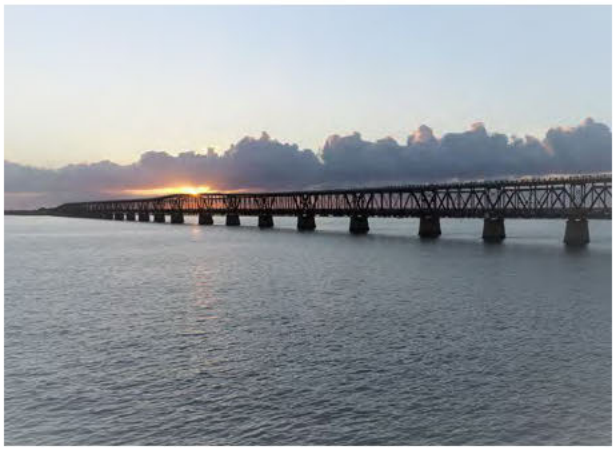
17. Firm Experience:					
Firm name	Gresham Smith		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	**Florida Keys Overseas Heritage Trail (FKOHT) – Bridge Evaluations**		Firm responsibility (prime or sub?)	Prime	
Project number	CN215 TA1 & TA2	Owner's name	Florida Department of Environmental Protection (FDEP)		
Project location	Statewide, Louisiana		Owner's Project Manager	Garland Sandel, P.E.	
Owner's address, phone, email	3900 Commonwealth Blvd., Tallahassee, FL 32399 / 850.245.2798 garland.sandel@floridadep.gov				
Services commenced by this firm (mm/yy)	03/21	Total consultant contract cost ($1,000's)	$600		
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$575		

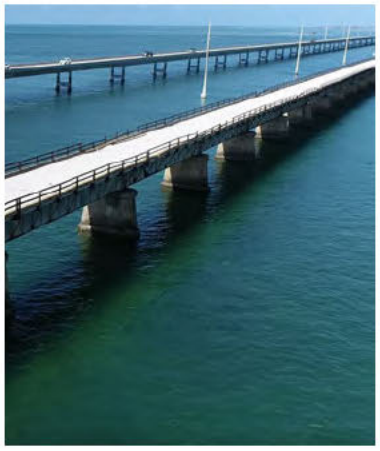
Seven Mile Bridge and Bahia-Honda Bridge – Field Evaluations: The Florida Department of Environmental Protection (FDEP) selected Gresham Smith to evaluate the historic Seven Mile Bridge and Bahia Honda Bridge and provide preservation recommendations. Due to the age and condition of the bridges, standard access was precluded. Our team utilized drone technology and boat access to investigate and document these historic structures' condition and provide preservation recommendations along with replacement options. Ryan Horn, a licensed boat operator in Florida lead the navigation within the keys and supported the drone inspections.

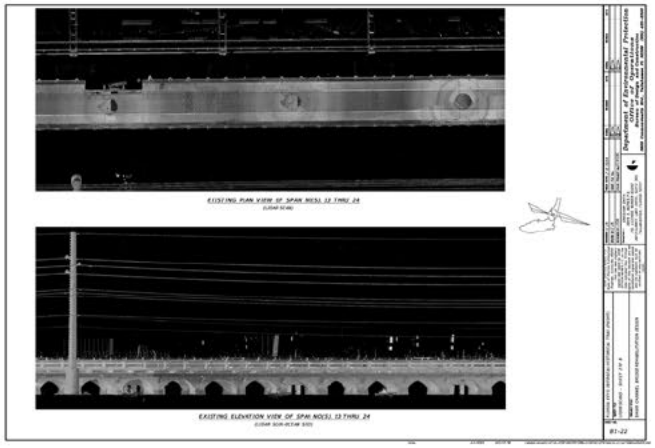
Team Members Who Worked on This Project:

- **John Weres, Courtney Rome,** Yun Lin, Russell Childs, Bert Moore, Ryan Horn, Jackson Hartley

Shark Channel Bridge – Field Evaluation and Preservation: Under A separate task order, Gresham Smith was selected to perform a field evaluation of the historic, 1,988" concrete spandrel arch bridge new Key West Florida. Our team utilized kayaks to access around the piers and drone technology for the superstructure overhangs. Our team also incorporated LiDAR capture survey to scan the bridge structure. The LiDAR scans were then used to prepare a model for the preservation rehabilitation. Our team designed the preservation plans and prepared documents for bidding. Bids were received for the $6M preservation contract in June 2024 and construction is anticipated to be completed in late 2025.







FIRM EXPERIENCE
KTA-TATOR, INC.

17. Firm Experience:					
Firm name	KTA-Tator, Inc.		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	**Jackson Street (Red River) Lift Bridge**		Firm responsibility (prime or sub?)	Subconsultant	
Project number	4400013322, TO #1	Owner's name	LADOTD (Gresham, Smith Partners – GSP (prime consultant)		
Project location	Alexandira, LA		Owner's Project Manager	John Weres, PE, GSP	
Owner's address, phone, email	10000 Perkins Rowe, Suite 280, Baton Rouge, LA 70810 225-960-5480 john.weres@greshamsmith.com)				
Services commenced by this firm (mm/yy)	02/20	Total consultant contract cost ($1,000's)		$5,000	
Services completed by this firm (mm/yy)	05/20	Cost of consultant services provided by this firm ($1,000's)		$11	

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

Team Members Who Worked on This Project:

- **Robert Lanterman**

Under Gresham Smith's task order agreement with LADOTD, KTA completed a coating condition assessment of this bridge. The coating condition assessment was conducted on February 18 and 19, 2020. This assessment aimed to determine the coating of the existing coatings on the structure to develop a maintenance painting strategy for the bridge.

The coated surfaces were visually assessed to determine the type, extent, and location of coating breakdown and corrosion on the structure. Coating thickness, number of coats, and adhesion were determined using appropriate instrumentation. Samples were removed for further laboratory examination to determine if toxic metal concentrations were present in the existing coatings and to identify the coating type generically. Photographs of typical coating conditions were taken. The field and laboratory testing results, a discussion of those results, and pictures were included in a report prepared and submitted to Gresham Smith. A discussion of various maintenance painting options was presented, along with recommendations for the maintenance painting of this structure.

17. Firm Experience:					
Firm name	KTA-Tator, Inc.		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	**Krotz Springs Bridge**		Firm responsibility (prime or sub?)	Subconsultant	
Project number	4400025311 task order	Owner's name	LA DOTD (Hardesty & Hanover, LLP – prime consultant)		
Project location	St. Landry Parish, LA		Owner's Project Manager	Babak "Bobby" Naghavi, PE, PH, PhD – Hardesty & Hanover	
Owner's address, phone, email	3850 N. Causeway Blvd., Suite 1625, Metairie, LA 70002 | 504-605-7940 | bnaghavi@hardestyhanover.com				
Services commenced by this firm (mm/yy)	02/24	Total consultant contract cost ($1,000's)	$5,000		
Services completed by this firm (mm/yy)	04/24	Cost of consultant services provided by this firm ($1,000's)	$12		

Team Members Who Worked on This Project:

- **Robert Lanterman**

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

In September 2023, as a subconsultant, KTA performed a coating condition assessment on both structures. This assessment aimed to determine the coating of the existing coatings on the structure to develop a maintenance painting strategy for the bridge.

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

17. Firm Experience:					
Firm name	KTA-Tator, Inc.		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	**Phased Array UT Inspection of Bridge Pins**		Firm responsibility (prime or sub?)	Subconsultant	
Project number	N/A	Owner's name	North Dakota DOT (Fickett Structural Solutions – prime consultant)		
Project location	Various locations throughout North Dakota		Owner's Project Manager	Todd Demski (Fickett)	
Owner's address, phone, email	11425 Hanson Blvd., NW, Minneapolis, MN 55433 | 763-285-7963 | tdemski@fickettinc.com				
Services commenced by this firm (mm/yy)	10/21	Total consultant contract cost ($1,000's)	$200		
Services completed by this firm (mm/yy)	10/21	Cost of consultant services provided by this firm ($1,000's)	$21		

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

Team Members Who Worked on This Project:

- **James Kretzler** (PM/ASNT Level III)

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

NDDOT
North Dakota
Department of Transportation

FIRM EXPERIENCE
INFINITY ENGINEERING CONSULTANTS, LLC

17. Firm Experience:							
Firm name	Infinity Engineering Consultants, LLC			Past Performance Evaluation Discipline(s)*		CE&I/OV	
Project name	**Shintech Water Intake Platform & Vehicular Bridge**				Firm responsibility (prime or sub?)		Prime
Project number	IEC 21-009	Owner's name	Shintech				
Project location	Plaquemine, Louisiana			Owner's Project Manager	Nathan Ferrington		
Owner's address, phone, email	26270 Highway 405, Plaquemine, LA 70764 | 225-684-2105 | nferrington@ shin-tech.com						
Services commenced by this firm (mm/yy)	04/21	Total consultant contract cost ($1,000's)				$15,000	
Services completed by this firm (mm/yy)	07/24	Cost of consultant services provided by this firm ($1,000's)				$250	

Infinity was tasked with providing engineering services related to the design of a new water intake platform and vehicular bridge for Shintech's SPP3 plant in Plaquemine, LA. This multi-disciplinary design consisted of field services, civil, structural, mechanical, electrical, instrumentation, and construction administration. Throughout the construction duration Infinity has been providing construction administration and resident inspection services overseen by one of Infinity's construction managers.

Team Members Who Worked on This Project:

- Bart Lacomb and John Lawrence

The civil and structural scope consists of the design of the following:

- Heavy equipment concrete bridge to the new platform
- Vehicular levee crossing
- Piling and concrete foundations
- Steel platform and drift deflector

Additionally, Infinity is tasked with specifying a jib crane and designing the platform to accommodate the crane loads. Finally, Infinity is to update the calculations for the existing structure to include a load analysis of proposed piping. The electrical and instrumentation scope primarily included the design of the power distribution and grounding components of the electrical system and the instrumentation components of the project.

The field services scope contained performing hydrographic and topographic surveys of the existing site conditions as well as capturing the conditions with drone photography and videography. Total cost of project: $15,000,000.

FIRM EXPERIENCE
FORTE & TABLADA, INC.

17. Firm Experience:							
Firm name	Forte & Tablada, Inc.			Past Performance Evaluation Discipline(s)*		Survey	
Project name	**Amite River Basin Model-Hydrographic Survey**				Firm responsibility (prime or sub?)		Subconsultant
Project number	4400008293	Owner's name	LADOTD				
Project location	Livingston Parish, Louisiana			Owner's Project Manager		Edward Knight, PE	
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70804 | 225-379-3007 | edward.knight@la.gov						
Services commenced by this firm (mm/yy)		06/17	Total consultant contract cost ($1,000's)				$349
Services completed by this firm (mm/yy)		02/19	Cost of consultant services provided by this firm ($1,000's)				$349

Forte and Tablada, Inc. worked with LA DOTD and Dewberry to provide hydrographic surveying of the Amite River and Comite River. Task orders included typical cross-sections of these rivers, as well as detailed 3-D bathymetric data collected with sonar equipment. Forte and Tablada also provided ground control for LiDAR of the Amite River Basin. Notably, Forte and Tablada provided a high-resolution survey of the Amite River Diversion Weir utilizing a variety of techniques including multibeam sonar and traditional survey methods.

Team Members Who Worked on This Project:

- **Brent Campbell**

The largest challenge for this project was the varying water depths of the Amite and Comite River, which prevented the use of a single type of data collection system. Forte and Tablada was able to overcome this challenge through the multiple types of data collection systems within its inventory. A wide swath multi-beam sonar unit was used to collect data remotely into shallow water areas, single-beam sonar equipment was used to confirm the results of the multi-beam areas as well as collect bathymetry data in water less than 2 feet deep. LiDAR laser scanners were used on bridge structures to give a seamless representation of the underwater conditions as well as above water conditions for a precise bridge opening area. The image depicts the seamless merging of these two data sets collected utilizing two different types of data collection systems.

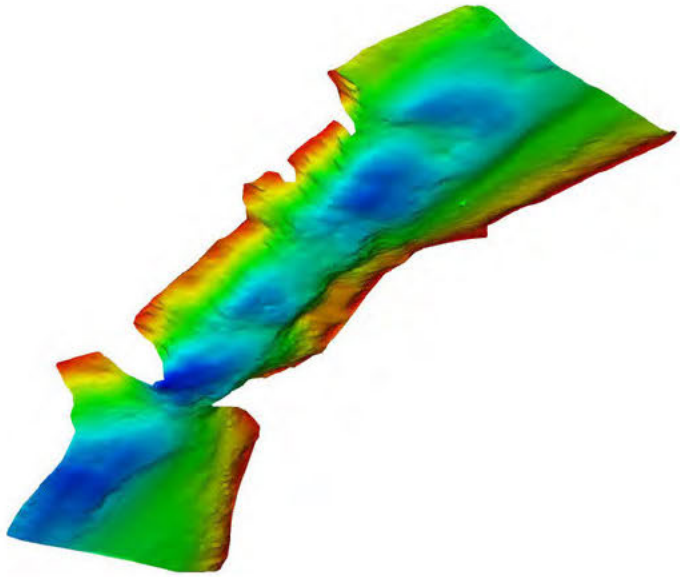
17. Firm Experience:					
Firm name	Forte & Tablada, Inc.		Past Performance Evaluation Discipline(s)*	Survey	
Project name	**LADOTD Underwater Acoustic Imaging – Mississippi River Bridges**		Firm responsibility (prime or sub?)	Subconsultant	
Project number	H.009730.5	Owner's name	LADOTD c/o Moffatt & Nichol		
Project location	Statewide, Louisiana		Owner's Project Manager	Jonathan Hird	
Owner's address, phone, email	301 Main St., Suite 800, Baton Rouge, LA 70801 | 225-336-2075 | jhird@moffattnichol.com				
Services commenced by this firm (mm/yy)	06/23	Total consultant contract cost ($1,000's)	$171		
Services completed by this firm (mm/yy)	08/23	Cost of consultant services provided by this firm ($1,000's)	$171		

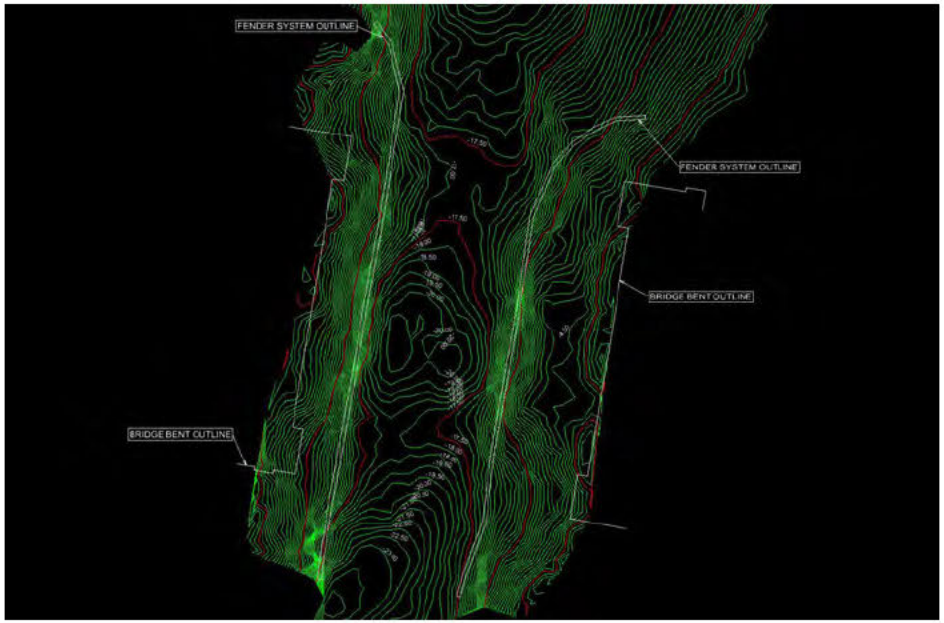
Forte and Tablada conducted a hydrographic survey as a subconsultant to Moffatt & Nichol to capture the area around the LA-14 Bridge over Delcambre Canal. The work included typical cross-sections, and water bottom features below waterline were collected using multi-beam and single beam sonar equipment. Terrestrial LiDAR was used to capture the above water surface.

Team Members Who Worked on This Project:

- **Brad Holleman, Brent Campbell**

Limited traditional survey methods were used to collect ground data along the bank and around the canal.





17. Firm Experience:							
Firm name	Forte & Tablada, Inc.			Past Performance Evaluation Discipline(s)*		Survey	
Project name	**LADOTD Underwater Acoustic Imaging – Mississippi River Bridges**			Firm responsibility (prime or sub?)		Subconsultant	
Project number	H.009730.5	Owner's name	LADOTD c/o Moffatt & Nichol				
Project location	Statewide, Louisiana			Owner's Project Manager	Jonathan Hird		
Owner's address, phone, email	301 Main St., Suite 800, Baton Rouge, LA 70801 | 225-336-2075 | jhird@moffattnichol.com						
Services commenced by this firm (mm/yy)		08/22	Total consultant contract cost ($1,000's)			$171	
Services completed by this firm (mm/yy)		09/22	Cost of consultant services provided by this firm ($1,000's)			$171	

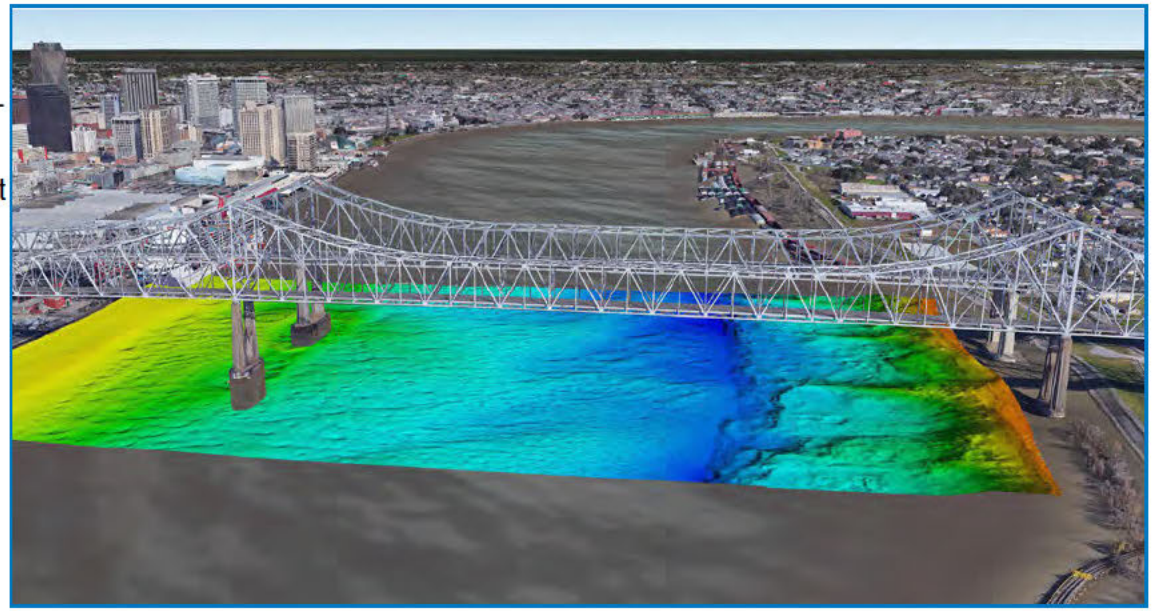
Forte and Tablada worked with LADOTD and Moffatt and Nichol to provide Hydrographic Surveys for the following Mississippi River Bridges:

- Rigolets Bridge,
- Crescent City Connection Bridges (East and Westbound)
- Vicksburg Bridge

Team Members Who Worked on This Project:

- **Brad Holleman, Brent Campbell**

The purpose of the survey is to document bridge scour, bridge piers, and other water bottom features below the waterline. 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. Limited traditional survey methods were used to collect ground data along the bank.



North				Location	South			
200 ft	100 ft	50 ft	North Fascia		South Fascia	50 ft	100 ft	200 ft
-	-	-	-	W. Shoreline	-	-	-	-
-22.0	-22.8	-23.4	-23.7	Mid Span	-25.8	-26.8	-27.2	-30.3
-31.5	-31.4	-33.5	-59.1	Pier 4	-36.4	-41.2	-37.9	-34.0
-53.8	-57.4	-60.1	-60.9	Mid Span	-55.9	-55.4	-55.3	-53.3
-79.1	-76.5	-87.7	-92.7	Pier 3	-67.6	-69.8	-76.3	-78.5
-88.6	-85.7	-89.9	-91.6	Midspan	-93.0	-90.8	-88.7	-87.6
-16.8	-9.5	-11.5	-16.5	Pier 2	-16.1	-14.8	-12.4	-

Table 1.0 – Channel Soundings From Water Surface

FIRM EXPERIENCE
VECTURA CONSULTING SERVICES, LLC

17. Firm Experience:					
Firm name	Vectura Consulting Services, LLC		Past Performance Evaluation Discipline(s)*	Traffic	
Project name	**I-10 ITS Scott to Lake Charles**		Firm responsibility (prime or sub?)	Subconsultant	
Project number	H.013256.5	Owner's name	LA DOTD		
Project location	I-10 (District 07)		Owner's Project Manager	Roy Esteven, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 | 225-379-2527 | Roy.Esteven@LA.gov				
Services commenced by this firm (mm/yy)	01/21	Total consultant contract cost ($1,000's)		Unknown	
Services completed by this firm (mm/yy)	03/21	Cost of consultant services provided by this firm ($1,000's)		$20,162	

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

- Safety strategy that included a CAT Scan,
- LOS determination utilizing Citrix data,
- Lane closure recommendations based on a queue analysis,
- Cost estimate, and
- Public information strategies.

Team Members Who Worked on This Project:

- Laurence Lambert, Kristen Farrington

17. Firm Experience:					
Firm name	Vectura Consulting Services, LLC		Past Performance Evaluation Discipline(s)*	Traffic & CE&I/OV	
Project name	**Belle Chasse Bridge & Tunnel Replacement PPP**		Firm responsibility (prime or sub?)	Subconsultant	
Project number	H.004791	Owner's name	LA DOTD		
Project location	Belle Chasse, LA		Owner's Project Manager	Nickolas Olivier, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 | 225-379-1133 | Nicholas.olivier@la.gov				
Services commenced by this firm (mm/yy)	04/19	Total consultant contract cost ($1,000's)		Unknown	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm ($1,000's)		$211.890	

Vectura is providing the traffic engineering services for the Belle Chasse Bridge & Tunnel Replacement Project for improvements along LA 23. Vectura is responsible for the following tasks:

- Preliminary and final traffic studies
- Temporary and final traffic signal plans
- Assisted the Prime with Traffic Management Plan (TMP)
- Response to request for information (RFI's)
- As-built plans for the traffic signals

Team Members Who Worked on This Project:

- Laurence Lambert

17. Firm Experience:						
Firm name	Vectura Consulting Services, LLC			Past Performance Evaluation Discipline(s)*	Traffic	
Project name	**I-12: US 61 Bridges Girder Repairs**			Firm responsibility (prime or sub?)	Subconsultant	
Project number	H.014591.5	Owner's name	LA DOTD			
Project location	Baton Rouge, Louisiana			Owner's Project Manager	Carl Gaudry	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 | 225-379-1075 |Carl.Gaudry@la.gov					
Services commenced by this firm (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)	$27.633			

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

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

Team Members Who Worked on This Project:

- Laurence Lambert, Kristen Farrington

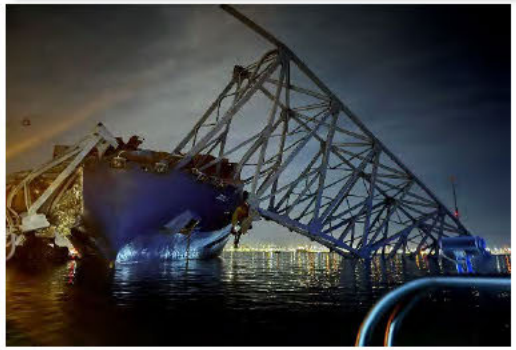
FIRM EXPERIENCE
MARINE SOLUTIONS, INC. OF KENTUCKY

17. Firm Experience:					
Firm name	Marine Solutions		Past Performance Evaluation Discipline(s)*	CE&I/OV	
Project name	**Francis Scott Key Bridge Collapse Emergency Response**		Firm responsibility (prime or sub?)	Subconsultant	
Project number	0224038 / 82-21-021	Owner's name	Maryland Transportation Administration		
Project location	Baltimore, Maryland		Owner's Project Manager	Tekeste Amare, PE	
Owner's address, phone, email	300 Authority Drive, Baltimore, MD 21222 | 410-537-7889 | tamare1@mdta.state.md.us				
Services commenced by this firm (mm/yy)	03/24	Total consultant contract cost ($1,000's)	$130		
Services completed by this firm (mm/yy)	05/24	Cost of consultant services provided by this firm ($1,000's)	$130		

Marine Solutions has provided inspection and other bridge engineering services to the Maryland Transportation Administration (MDTA) for 20 years through numerous consecutive system-wide and on-call contracts. The MDTA maintains and operates the state's toll facilities including turnpikes, tunnels, and bridges, including the seven largest coastal bridges in the state. Four of these bridges are over a mile long. Marine Solutions provides above and below-water routine, in-depth, and nonredundant steel tension member inspections, load ratings, surveys, repair designs, and comprehensive bridge program services.

Team Members Who Worked on This Project:

- **John Loftus, Ross Whiting, Kyle Morrow**



On March 26, 2024, a cargo ship leaving the Port of Baltimore struck the (I-695) Francis Scott Key Bridge causing the collapse of the bridge. Marine Solutions began providing emergency consulting services and prepared field teams for response within hours of the collapse. Personnel, boats, and sonar equipment were mobilized to the site and began providing survey and assessment services immediately upon notice to proceed, less than 24 hours after the collision. The teams included certified personnel in above- and below-water bridge inspections, surveying, sonar imaging, and construction. Both field and office personnel were positioned to collect and process information as quickly as possible.

Marine Solutions provided observations and surveying of the collapsed and uncollapsed sections of the bridge. Using the latest sonar technologies, real-time imaging of the structure was used to report and consult in support of evaluation and emergency actions as the surveys were conducted. Above- and below-water surveys and assessment reports were then provided. Following immediate surveys of the collapsed bridge spans, Marine Solutions performed underwater inspections of all the substructure units for damage and evaluation of stability.

- Marine Solutions' knowledge of the bridge's fender systems, substructure, and waterway provided the MDTA with immediate answers on the bridge and waterway conditions.
- Access to the most advanced sonar technology provided the MDTA with a clear picture of the underwater conditions.
- Fast response provided answers for decision-making when timing was critical.

17. Firm Experience:					
Firm name	Marine Solutions		Past Performance Evaluation Discipline(s)*	CE&I/OV	
Project name	**FY23 Navy Bridge Inspection and Assessment Southeast Region**		Firm responsibility (prime or sub?)	Prime	
Project number	0223017/N3943020D2206 N3943023F4505	Owner's name	Naval Facilities Engineering Command		
Project location	Louisiana, Mississippi, Georgia, Florida		Owner's Project Manager	Anne Marie Prieto, PE	
Owner's address, phone, email	720 Kennon St. SE, Bldg. 36 Suite 333, Washington, DC 20374 | 202-685-5324 | anne.m.prieto.civ@us.navy.mil				
Services commenced by this firm (mm/yy)	02/23	Total consultant contract cost ($1,000's)		$195	
Services completed by this firm (mm/yy)	10/23	Cost of consultant services provided by this firm ($1,000's)		$195	

Marine Solutions has been performing structural inspections and design engineering services for the U.S. Navy continuously since 2010. Marine Solutions currently serves as the sole consultant for the U.S. Navy's bridge inspection and maintenance on an exclusive contract for bridge inspection, assessment, design, and post-construction award services at all U.S. Navy and other Department of Defense installations worldwide. This contract includes above and below-water inspections, non-redundant steel tension member inspections, investigations, scour assessments and analysis, load ratings, seismic analysis, and bridge repair design. Under this contract, Marine Solutions has performed over 250 bridge inspections across the continental United States and in Cuba, Spain, Japan, Guam, Bahrain, and South Korea.

Team Members Who Worked on This Project:

- **John Loftus, Ross Whiting,** Anderson Potter

Under this task order, Marine Solutions performed complete bridge inspections (above and below water) of 31 bridges located at naval bases in Louisiana, Mississippi, Georgia, and Florida. The project included vehicular, rail, and pedestrian bridges and the inspections were required to fulfill NBIS, federal railroad administration, and DoD unified facilities criteria. The bridges ranged from simple inland single spans to 24 span coastal bridges crossing estuaries and navigable channels. The inspections were performed using a custom developed mobile and web-based application developed by Marine Solutions that allows for fast and effective inspections, auto-generated reports, and auto-generated bridge inventory and inspection data.

- All inspections were performed within the required month due.
- All bridge data was entered and finalized prior to the required due date along with accompanying electronic reports.
- Above and below water inspections were performed by a single team in a single mobilization with all the qualifications and equipment required.
- Quality control checks were utilized to efficiently verify field notes prior to data entry and report development.
- Quality control practices were successfully performed to eliminate errors in reporting and expedite government review and acceptance.

SECTION 18

APPROACH AND METHODOLOGY

PROJECT PLANNING AND MANAGEMENT

DOTD will receive consistent, quality inspections with our Project Management Plan (PMP). Our Project Manager, Luke McMahen, PE, will use the PMP to deliver consistent, on-time quality results.

Project Planning

Approach to Contract Planning

Michael Baker, a trusted provider of quality bridge safety inspections for more than half of the Departments of Transportation (DOTs) throughout the U.S., including Texas Department of Transportation (TxDOT), Arkansas Department of Transportation (ArDOT), and Mississippi Deptartment of Transportation (MDOT), will be leading the planning process. Our **project manager, Luke McMahen, PE,** and the team will review the proposed contract/task order, the current DOTD Bridge Inspection Manual (BIM), and referenced documents to break down all deliverables. Working backward from the deliverables, he will map workflows, identify predecessor and successor tasks, prepare schedules, and assign responsibilities for each deliverable.

Project Management

We are committed to providing DOTD with an available team that consists of team members with experience working together on similar contracts.

Project Management Plan (PMP)

A PMP will be created prior to contract/task order execution by Michael Baker Project Manager Luke McMahen, PE, who will use it to answer the questions of Who, What, When, Where, and How. By including the information required to manage and execute the project successfully, answering these questions in the PMP fosters communication, supports continuity of operations, and facilitates change management. The PMP for this contract will be updated for each task order (TO) and includes:

- Contract and TO scope of work
- Critical assumptions, constraints, workflows
- Project team and stakeholders
- Communication plan
- Procurement/subcontracting plan
- Schedule/resource management plan
- Quality management plan
- Health and safety plan
- Risk management plan
- Document management
- Budget and invoicing
- Closeout plan

Project Staffing and Resource Management

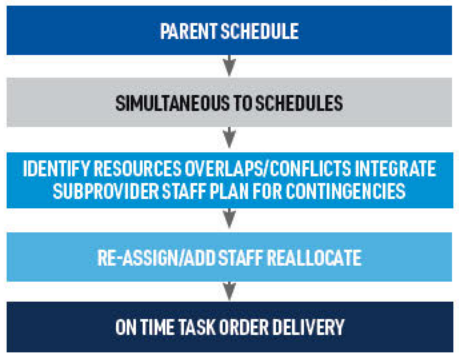
Since 2013, Luke has successfully managed 42 TOs with overlapping field and reporting work. On 12 occasions he managed two TOs and on two occasions managed three TOs with one or more months of concurrent field work. Of the 120 months in the field since 2013, 33 months included concurrent field work on multiple TOs. Luke has accomplished this by using a combination of the following:

- Managing schedules for inspection, report-writing, and quality phases of inspection
- Simultaneous deployment of multiple Michael Baker teams (up to 10x available teams)
- Simultaneous deployment of Michael Baker and subconsultant teams (for peak periods or specialty inspections)
- Start inspections on the first day of each month
- Grow the team by developing/training assistants to become TLs
- Advanced resource planning for under-bridge inspection trucks, man-lifts, unmanned aerial systems, traffic control, and rope-access teams
- Dedicated team for traffic control planning, railroad coordination, navigable waterways coordination, and other stakeholders

With 10 neighboring state-based Michael Baker TLs, multiple long-term inspection partners, and a bench of 120 qualified inspectors in our national bridge inspection practice plus strategic subbing partners, Michael Baker has the flexibility to execute multiple concurrent TOs and deploy additional teams as needed.

Using the WBS approach detailed to the right, Luke can ensure that all TOs are properly staffed and on schedule and can make any adjustments if work begins falling behind schedule.

WORK BREAKDOWN STRUCTURE (WBS)



SAMPLE TASK ORDER SCHEDULE

Our team has redundancy in staff needed for the contract which allows our team to handle several concurrent projects. This detailed process and management of staff resources ensures that schedules fully address unforeseen events.

To mitigate schedule delays we:

- Include "weather days" in the schedule
- Build the right team and develop contingency plans
- Perform inspections through weekends and at night if needed

With multiple, simultaneous TOs anticipated, our WBS system also allows us to plan training for anticipated staff. To develop and maintain a core group of inspectors and TLs, we will continue to focus on:

- Formal and on-the-job training for the current inspection team
- Mentoring and training for new/potential inspectors
- Identifying additional inspectors within Michael Baker to interview, pre-certify, and seek approval for the contract

Communication Plan

For this contract and TOs, **Luke will be the single point of contact for DOTD.** Our inspection teams and subconsultants will report to Luke, who will provide the information to the DOTD Heaquarter Bridge Section.

We will maintain a contact database with distribution lists for:

- Emergencies
- Critical findings
- Priority maintenance needs
- Load ratings/postings
- Quality reviews
- Meeting minutes

MEETING PLANS

KICKOFF MEETING
Includes subconsultants, review scope, and reporting; discuss DOTD concerns and requirements; review schedule

MONTHLY TASK ORDER UPDATE
- Inspection Schedule
- Railroad Coordination
- Traffic Control
- Load Rating/Posting
- Inspection and report status
- Identify/resolve concerns

BI-WEEKLY PROJECT TEAM
Team leaders and subconsultants discuss schedule, coordination, status load rating, lessons learned, and concerns

WEEKLY INTERNAL
Team leaders discuss schedule, and staffing plan, adjust staffing for upcoming deadlines or urgent needs

CLOSEOUT
Provide End of Task Order Submittals, discuss team performance, lessons learned

We will update the Communication Plan and Contact Database to include Headquarters, District, and stakeholder contacts for each TO. The plan will also include a calling tree for communications when the main point of contact is unavailable.

Weekly and Bi-Weekly meetings will include the following topics:

- Safety
- Progress/schedule
- Quality
- Critical findings
- Load ratings
- Unusual observations
- Lessons Learned

Michael Baker will prepare an agenda at least 48 hours before scheduled meetings and will prepare meeting minutes (including action items and responsible parties) for review and comment within 72 hours.

Quality Plans and Procedures

The Quality Control (QC) plan will focus on processes and metrics for identifying and correcting deficiencies in the inspections and products of the inspection prior to submittal to DOTD. The plan will comply with the contract, the DOTD BIM, and support FHWA 23 Metrics compliance. The plan will include an independent review of the inspection, traffic control and access plans prior to the inspection. After the inspection, products of the inspection including field notes, photographs/captions, condition ratings, Element Type/Condition State/Quantities, SI&A, Critical Findings, and NBI/SNBI items will be reviewed. Performed by an experienced qualified team lead not associated with the inspections and condition assessments, using a color-coded system to track the creation, checking, correction and verification of corrections will be documented in "Checkprints". The results of the review will be shared with the Project Manager and Quality Management Team. The Quality Management Team will extract lessons learned and will host training sessions with the team to discuss.

The QA plan will include a process to review the Quality Inspection reports and Checkprints of the inspection products, methods of measuring defects, reporting and sharing lessons-learned with the entire team. Our quality process ensures that DOTD receives superior deliverables by ensuring our team complies with inspection refresher training, attends DOTD training, and understands the contract's requirements. Our policy of report writing by the TL, independent QC of, document and quality management tools, a quality management plan, and regular lessons-learned follow-up for errors that occur are integral to our process and approach to bridge inspection.

The table **below** illustrates how Luke and his team will support DOTD in achieving FHWA's "23 Metrics" performance criteria.

Metric	Supporting Actions	Metric	Supporting Actions
1-5	▪ Identify qualified and competent personnel ▪ Provide training ▪ Monitor compliance with bridge inspector refresher training	16-19	▪ Follow inspection procedures for fracture critical, underwater, scour critical, and complex bridges
6-10	▪ Complete routine inspections within anniversary month ▪ Identify and notify DOTD of structures that may need underwater or NSTM inspections	20	▪ Implement QA/QC program to include field reviews of inspection teams, refresher training, independent review of inspection reports and calculations and documentation
12	▪ Provide Bridge Inspection Office with notification if inspection schedule for their quality inspections	21	▪ Identify, document, and provide recommendations for critical findings through verbal notification to DOTD and InspectX Maintenance Module

Metric	Supporting Actions	Metric	Supporting Actions
13-14	▪ Provide load rating and posting in accordance with state law, DOTD Bridge Inspection Manual, Contract/TO, and interim technical updates from DOTD	22	▪ Review and update NBI SI&A data; collecting and updating InspectX with accurate SNBI data
15	▪ Provide accurate data to InspectX data fields	23	▪ Manage staff, schedules, and mitigating delays to ensure inspections are completed in the anniversary month and documentation is submitted in a timely manner

Project Approach

Our approach includes planning/pre-inspection activities, inspection, documentation, reporting, and quality activities outlined below and in our Project Planning and Management discussion.

Collecting, Organizing, and Reporting Inspection Findings

Michael Baker's inspection teams carry all of the inspection tools and safety equipment identified in the contract, the Bridge Inspector's Reference Manual (BIRM), NDT equipment, and the DOTD Traffic Control Standards to inspect routine and complex bridges including cable-stayed, suspension, truss and movable structures.

Consistent Inspections and Reporting

Our team is dedicated to consistent inspections and reporting. With the addition of SNBI reporting, our team meets internally for training and education, which includes DOTD webinars and lessons learned from the field and office. We have already begun performing SNBI coding and reporting for several DOTs, including updating their BIRMs for this. While our teams are experienced, we have found that maintaining electronic and physical copies of the TO, DOTD BIM, BRIM, Coding Guide, SNBI, identification guides for Bridge Railing, and Michael Baker-developed checklists at the inspection site helps the team be consistent in the inspection and reporting.

While we understand that there are different approaches to data collection, we have developed inspection and reporting procedures that work best for us and DOTD, as proven by our previous successful contracts with neighboring DOTs. For a typical span/girder bridge over a waterway, the inspection begins with a site assessment followed by measuring the channel cross-section with a drop line, assessing deterioration and damage to the approach and bridge railing, weight limit signs, top of deck, approach slab, and bridge expansion joints. Moving below the bridge, the team follows a zig-zag path to observe methodically and assess deterioration and damage to the superstructure, bearings, substructure, exposed foundations, and channel condition. Throughout the inspection, our team:

- Photograph standard views, deterioration, maintenance needs, channel conditions, load posting signs, and vertical clearance signs
- Updates field Notes for Condition Ratings and the type, size, and location of deterioration and damage
- Updates condition Ratings for the totality and severity of deterioration/damage
- Update Field Notes Element Type and Element Condition State Quantities
- Verify the relationship between Condition Ratings and Element Condition State quantities
- Update SI& data and collect or verify data for SNBI Items and verifys Coding Guide translations to SNBI
- Prepare detailed sketches and pictures of bridge elements with the type, size and location of deterioration

Michael Baker inspectors have inspected hundreds of complex bridges, including dozens of suspension, cable-stayed, and tied arch bridges in the region and across the country. We understand the need for additional planning, coordination, and staffing for them. Since these structures are very time-consuming, we use innovative access and inspection methods that maintain or improve safety and efficiency yet provide the same inspection quality. For most major, difficult access bridges, we deploy travel teams from our team of 20+ Rope Access SPRAT climbers and UAS pilots (as necessary) to obtain close-up visual and hands-on access. See the **"Innovative Concepts or Alternatives" section** below for more details.

Our TLs know that they have the authority and responsibility to restrict or close traffic to a bridge with a critical finding. They will immediately contact Michael Baker's Project Manager, the bridge owner, and local law enforcement and follow protocols in the DOTD BIM Section 5.18, when a bridge is to be closed. If there is danger of collapse, then the District Bridge Inspection Supervisor will be notified for On-System bridges and the Bridge Maintenance & Inspection Supervisor for Off-System bridges. Ultimately, the District ADA of Operations and the HQ Bridge Inspection Office will also be notified.

Organizing Data

Michael Baker knows that the DOTD encourages all inspectors to input data via the InspectX tablet application. We now perform tablet-based inspections for multiple bridge inspection contracts and upload data directly to various BMS systems, as required. We have been doing this for TxDOT for many years now and have found that once one is familiar with this method, it saves time and reduces transcription errors. It should also be more cost-effective when entering, verifying or editing the new SNBI coding data.

Reporting Inspection Findings

Our approach to reporting is driven by the contract/TO, DOTD BIM, NBIS, Coding Guide, SNBI, and the Manual for Bridge Evaluation (MBE) and includes:

Repair & Rehabilitiation: Recommendations for preservation, repair and rehabilitation will be provided. If needed, we will provide rehabilitation plans will be developed.

Load Rating: Load Ratings will be updated for current conditions and necessary repairs to restore capacity will be identified.

Critical Findings: Report verbally, while on-site, to the Bridge Inspection Office so DOTD and/or the Bridge Owner can meet the Inspection Team in the field to review the critical findings.

Missing/Damaged Load Posting Signs: Review the inspection record to determine if load posting signs are required and match the load rating/posting documentation. As the contract requires, we take photos of both approaches and load posting signs and identify the

issue with the sign (missing, damaged, incorrect). With FHWA timelines for load posting, we will notify the District verbally and by email within one day of the inspection for missing or damaged load posting signs to allow time for ordering and installation.

Comparing Scour Documentation to Field Conditions: We will review the scour documents to determine the scour trigger elevation, allowable depth of scour and foundation depth, if known. At span bridges, we measure, record, and plot the channel cross-section elevations along the bridge. Below the bridge, we look for evidence of channel bed or channel bank damage, exposed or undermined foundations, exposed toe walls, undermining or damaged riprap, and take contextual and detailed pictures of the conditions. We compare current conditions to the prior inspection report, channel measurements/ cross-section plots, and photographs for indications of changes. At box culverts, we probe and measure for vertical drop-offs and undermining that often occur upstream and downstream of the box culvert or apron. At many box culverts, pooling water upstream or downstream of the box or apron indicates scour. If conditions have changed, we update the inspection record and channel measurements, and add follow-up action items to the InspectX maintenance module.

Scour Limits: If the scour is reaching or exceeding the scour trigger elevation, which is higher than the allowable scour depth, we will recommend scour documentation re-evaluation, recommend coding changes, update or add FUAs for countermeasures, consider a recommendation to close the structure, and notify the LA DOTD.

Coating Condition Assessments: Our subconsultant partner, KTA-Tator, Inc. will be performing the coating condition assessments. KTA's assessments are based on applicable industry standards (e.g., SSPC, NACE, ASTM), our approach to integrating coating condition assessments, opinions of probable cost and maintenance recommendations has been developed from years of experience on a vast array of projects.

The cornerstone of KTA's approach involves an evaluation of the existing condition of coating systems (e.g., visible coating deterioration/corrosion, coating thickness, coating adhesion, surface preparation, toxic metal content) applied to representative major components of the structure. The structures are analyzed in order to identify failure patterns so that alternative remediation strategies like spot repair and zone painting can be considered along with total removal and replacement. This analysis may also involve discussions of possible impacts on project timing. Initial findings are frequently discussed with other in-house coatings consultants to make the most of KTA's extensive technical expertise and experience.

Preliminary conclusions are discussed with clients/owners in an attempt to identify additional considerations like scheduled outages, road closure, equipment or staging limitations that might impact KTA's final recommendations. Once desired maintenance options are identified, KTA's professional staff begins the process of preparing opinions of probable cost (i.e., an opinion of likely bid ranges for the recommended repair options) and provides maintenance recommendations in a detailed report.

ASNT Level III Services: KTA's ASNT Level III will utilize their extensive knowledge of NDE services to prepare and/or review welding procedures incorporating the appropriate inspection method(s) (MT, PT, RT, and/or UT) to provide quality bridge welding inspections in the shop or field for new construction or rehabilitation work. KTA will provide the NDE-related services in accordance with DOTD specifications/contract documents, ASNT requirements, and other applicable industry standards. KTA also provides NDE technician certification services.

Safety

Performing an inspection safely for the public and the inspectors are the mark of a safety-focused inspection team. Our team understands the hazards of bridge inspection, so we plan for and implement hazard elimination or mitigation using a Job Hazard Analysis tool to identify inspection hazards. We use the S.L.A.M. process at each bridge to assess, mitigate, and communicate site-specific hazards. Additionally, we attend Michael Baker safety training, eRailSafe railroad safety and security training, and Roadway Worker Protection training for UPRR and BNSF, and, as required, share and review lessons learned by our team and the Michael Baker bridge safety inspection practice.

Innovative Concepts or Alternatives

Mobile Devices and Applications

Michael Baker uses iPads, tablets, laptops, and Michael Baker-written applications to collect field inspection notes, data, photos, and captions. With these tools, we move our field data seamlessly to our report-writing process, which is more efficient than physical notes. We have used this home-grown solution successfully for over 20 TOs, but we plan to test the InspectX Mobile Application in Summer 2024 and evaluate modifying our current processes to incorporate this application.

Unmanned Aerial System (UAS)

UAS is a highly specialized tool for collecting visual data that may be difficult or costly to acquire by other means. As a leader in this space, **Michael Baker wrote *NCHRP 12-122 Proposed AASHTO Guidelines for Applications of Unmanned Aerial Systems Technologies for Element-Level Bridge Inspection*** and recently presented the findings at the 2024 International Bridge Conference. The research project will be published in the near future as NCHRP Research Report 1114. We maintain a fleet of three Department of Defense "Blue List" and 10 NDAA-compliant airframes that are not prohibited manufacturers/ technologies defined in DOTD's UAS Flight Operations and User Manual. We have 4 pilots for complex bridge inspections and an additional three pilots with bridge inspection experience.

The use of UAS can help provide a more thorough inspection in previously hard-to-reach spaces, assist with multi-level interchange inspections without resorting to high-reach manlifts, and/or under-bridge inspection vehicles, which require more traffic control and disruption., reduce the duration of lane closures, and reduce costs.

SECTION 19

WORKLOAD

SECTION 20

CERTIFICATIONS/LICENSES

19. Workload:

Firm(s) *ALL FIRMS MUST BE REPRESENTED IN THIS TABLE*	*Past Performance Evaluation Discipline(s)*	*Contract Number and State Project Number*	*Project Name*	*Remaining Unpaid Balance ***
Michael Baker International, Inc.	Road/Bridge	Contract No. 4400021519 S.P. No. H.012030.5 F.A.P. No. H012030	US 371: KCS RR Overpasses HBI	$235,961
		Contract No. 4400025026 S.P. No. H.015338 F.A.P. No. H015338	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program – District 07, Supplemental Agreement No. 1	$1,002,358
	Road/Bridge/ Environmental	Contract No. 4400019379 S.P. No. H.013797 F.A.P. No. H013797	LA 30: EBR PL-I-10	$309,268
	Environmental	Contract No. 4400005484 S.P. No. H.005168 F.A.P. No. DE-9208 (500)	NORG EIS, New Orleans, Louisiana	$431,946
	Environmental/ Road	Contract No. 4400005484 S.P. No. H.005168	NORG – Avondale PEL Study, New Orleans, Louisiana Supplemental Agreement	$546,292
	Other (Water Resource)	Contract No. 4400017092 Task Order No. 3	Collection of Existing Watershed Datasets, Models, and Studies; and Proposition of Modeling Design Approach, Schedule and Costs, Region 6	$326,742
		Contract No. 4400017090 Task Order No. 2	Collection of Existing Watershed Datasets, Models, and Studies; and Proposition of Modeling Design Approach, Schedule and Costs, Region 4	$81,608
		Contract No. 4400017067 Task Order No. 1	Collection of Existing Watershed Datasets, Models, and Studies; and Proposition of Modeling Design Approach, Schedule and Costs, Region 1	$170,387
		Contract No. 4400023101 Task Order No. 1 S.P. No. H.015040.1& H.015041.1	IDIQ Contract for Louisiana Watershed Initiative/ State Projects Program (LWI-SPP) – Group 1 Beauregard, Vernon, and St. Landry Parishes	$31,686
		Contract No. 4400023101 Task Order No. 2 S.P. No. H.015044.1	IDIQ Contract for Louisiana Watershed Initiative/ State Projects Program (LWI-SPP) – Group 1 Beauregard, Vernon, and St. Landry Parishes	$23,565
		Contract No. 4400023101 Task Order No. 3 S.P. No. H.015047.1	IDIQ Contract for Louisiana Watershed Initiative/ State Projects Program (LWI-SPP) – Group 1 Beauregard, Vernon, and St. Landry Parishes	$76,002
		Contract No. 4400023101 Task Order No. 4 S.P. No. (SEVERAL)	IDIQ Contract for Louisiana Watershed Initiative/ State Projects Program (LWI-SPP) – Group 1 Beauregard, Vernon, and St. Landry Parishes PEER REVIEW	$10,680

Firm(s) *ALL FIRMS MUST BE REPRESENTED IN THIS TABLE*	*Past Performance Evaluation Discipline(s)*	*Contract Number and State Project Number*	*Project Name*	*Remaining Unpaid Balance ***
Michael Baker International, Inc.	Other (Aviation)	Contract No. 4400019130 Task Order No. 1	IDIQ Contract for Statewide Aviation Program Update – Phase II Statewide	$4,980
	CE&I/OV	Contract No. 4400025536 Task Order No. 1 S.P. No. H.013997 F.A.P. No. H013997	IDIQ Contract for Construction Engineering and Inspection Services in District 61, Loc Rd. over Borrow Pit (Blind RV BT LNCH), St. James Parish	$73,199
		Contract No. 4400025536 Task Order No. 2 S.P. No. H.012936 F.A.P. No. H012936	IDIQ Contract for Construction Engineering and Inspection Services in District 61, LA 78: US 190- LA 1	$13,902
		Contract No. 4400025536 Task Order No. 3 S.P. No. H.013458 F.A.P. No. H013458	IDIQ Contract for Construction Engineering and Inspection Services in District 61, Manchac Acres & HH Wilson Rd Bridges	$115,099
		Contract No. 4400025536 Task Order No. 4 S.P. No. H.015604 F.A.P. No. H015604	IDIQ Contract for Construction Engineering and Inspection Services in District 61, Pear St. at LA 1: Drainage	$141,047
		Contract No. 4400025536 Task Order No. 5 S.P. No. H.012057 F.A.P. No. H012057	IDIQ Contract for Construction Engineering and Inspection Services in District 61, LA 431: Villar Canal and Drainage Bridges	$734,168
		Contract No. 4400025536 Task Order No. 6 S.P. No. H.013956 F.A.P. No. H013956	IDIQ Contract for Construction Engineering and Inspection Services in District 61, Beamon Rd over Bayou Maringouin	$128,744
		Contract No. 4400025536 Task Order No. 7 S.P. No. H.014319 F.A.P. No. H014319	IDIQ Contract for Construction Engineering and Inspection Services in District 61, Ceadercrest Avenue over Wiener Creek	$160,744

Firm(s) *ALL FIRMS MUST BE REPRESENTED IN THIS TABLE*	*Past Performance Evaluation Discipline(s)*	*Contract Number and State Project Number*	*Project Name*	*Remaining Unpaid Balance ***
Michael Baker International, Inc.	CE&I/OV	Contract No. 4400025536 Task Order No. 8 S.P. No. H.015944 F.A.P. No. H015944	IDIQ Contract for Construction Engineering and Inspection Services in District 61, LA 70 – LA 3213	$655,277
		Contract No. 4400014845 S.P. No. H.012018.6 F.A.P. No. H012018	IDIQ Contract for Construction Engineering and Inspection Services with majority of work in District 07 Statewide Adaptive Traffic Signal and Implementation, Lafayette Parish	$2,664
		Contract No. 440001485 H.0003184.6 S.P. No. H.003184.6	IDIQ Contract for Construction Engineering and Inspection Services with majority of work in District 07 Statewide, I-10: Texas State Line - E. of Coone Gully, Calcasieu Parish	$56,556
		Contract No. 440001485 S.P. No. H.013959.6 F.A.P. No. H013959	Contract No. 440001485 S.P. No. H.013959.6 F.A.P. No. H013959	$12,716
		Contract No. 4400024660 Task Order No. 1 H.013958.6 S.P. No. H.013958.6	IDIQ Contract for Construction Engineering and Inspection Services (CE&I) with Majority of Work in District 03 Carpenter Bridge Rd over Whisky Chitto Creek	$103,638
		Contract No. 4400024660 Task Order No. 2 H.014415.6 S.P. No. H.014415.6	IDIQ Contract for Construction Engineering and Inspection Services (CE&I) with Majority of Work in District 03 LA 352 Drainage Improvement	$44,932
		Contract No. 4400024660 Task Order No. 3 H.009629.6 S.P. No. H.009629.6	IDIQ Contract for Construction Engineering and Inspection Services (CE&I) with Majority of Work in District 03 US 90 RR-Pinhook_ LA 92-LA 88	$223,996
		Contract No. 4400024660 Task Order No. 4 S.P. No. H.005967.6 F.A.P. H.005967	IDIQ Contract for Construction Engineering and Inspection Services (CE&I) with Majority of Work in District 03 Nelson Rd Ext & Bridge	$444,440
		Contract No. 4400024660 Task Order No. 5 S.P. No. H.005967.6 F.A.P. H.005967	IDIQ Contract for Construction Engineering and Inspection Services (CE&I) with Majority of Work in District 03 I-10: JEFF DAV PL-I-49(OGFC/SLAB REPAIR)	$412,864

Firm(s) *ALL FIRMS MUST BE REPRESENTED IN THIS TABLE*	*Past Performance Evaluation Discipline(s)*	*Contract Number and State Project Number*	*Project Name*	*Remaining Unpaid Balance ***
Gresham Smith	Road	H.013720.5	LRSP/STRPPP Bonner Street Bridge Pedestrian Improvements	$1,544
		H.013073.5	LRSP/STRPPP Greenwells Springs & Wooddale Sidewalks	$11,655
	Traffic	H.015086.5	LRSP/STRPPP LA 14	$11,585
	Road	H.013714.5	LRSP/STRPPP Valhi Boulevard Shared Use Path Signing and Striping	$33,175
		H.015196.5	LRSP/STRPPP DeSoto Signing and Striping	$3,642
	Planning	H.010074.1	LA 70 at LA 3089 Stage 0	$76,276
	CE&I/OV	H.013256.6	I-10 Scott to Lake Charles ITS CEI	$1
	Other (Program Management)	H.015959.1	Discretionary Grant Administration (NOTE: This contract is based on an Average Annual billing of $400,000/ year. We are in year 1 of 4. For this contract we have 1 staff embeded at DOTD HQ on a part time basis. It is unlikely that this full amount will be recognized. (Program Management ONLY – NO Other work disciplines).	$1,597,139
	Road	H.016012	Transportation Alternative Program TO #1	$11,171
		H.014640	LRSP TO #1 St. Mary Parish	$71,434
		H.015196.5	SRTPPP TO #3 DeSoto Supplement 1	$16,146
		H.013720.5	SRTPPP TO #4 Bonner St Supplement 1	$29,917
KTA-Tator, Inc.	Bridge	Contract No. 4400021514, State Project No. H.012003	Contract 2 for Moveable Bridges (5)	N/A
		Contract No. 4400021514, State Project No H.011995	Contract 2 for Moveable Bridges (5)	N/A
		Contract No. 4400021514, State Project No. H.011995	Contract 2 for Moveable Bridges (5)	N/A
		Contract No. 4400021514, State Project No H.010007	Contract 2 for Moveable Bridges (5)	N/A
		Contract No. 4400021514, State Project No H.012568	Contract 2 for Moveable Bridges (5)	N/A
		Contract No. 4400021514, State Project No H.012000	Contract 2 for Moveable Bridges (5)	N/A
		Contract No. 4400023511	IDIQ Contract for Bridge Inspection Services	$2,493
		Task Order under Contract 4400023511	(Task Order – Coating assessment on LA DOTD US 190 Krotz Springs Bridge)	$12,772

Firm(s) *ALL FIRMS MUST BE REPRESENTED IN THIS TABLE*	*Past Performance Evaluation Discipline(s)*	*Contract Number and State Project Number*	*Project Name*	*Remaining Unpaid Balance ***
Infinity Engineering Consultants, LLC	Bridge	H.014267.5	Off-System Highway Bridge Program Savanne Road Over Hanson Canal	N/A
		H.014265.5	Off-System Highway Bridge Program North River Road Over Irving Branch	N/A
		Contract: 4400021516; State: H.013818	Moveable Bridges (5) Pointe Coupee, Lafourche, and Terrebonne Parishes	N/A
		Contract: 4400021516 State: H. 011986	Moveable Bridges (5) Pointe Coupee, Lafourche, and Terrebonne Parishes	N/A
		Contract: 4400021516 State: H.012734	Moveable Bridges (5) Pointe Coupee, Lafourche, and Terrebonne Parishes	N/A
Forte & Tablada, Inc.	Bridge	4400021594/H.009859.5	Task Order No. 1 - Load Rate Selected Statewide Bridges	$165,129
	Bridge, Survey	4400021594/H.011965.6	Task Order No. 2 - IWGO Bridge Rehabilitation (Drone Flyover)	$52,359
	Bridge	4400021594/H.000303.6	Task Order No. 3 - Danziger Bridge Rehabilitation	$5,681
		4400021594/H.009730.5	Task Order No. 4 - In Depth Bridge Inspection T-1 Steel Weld Assessment	$562
		4400021594/H.015228.5	Task Order No. 5 - LA 70: Sunshine Bridge Emer Truss Repair	$123
		4400021594/H.009859.5	Task Order No. 6 - Load Rate Selected Statewide Bridges	$2,171,019
		4400021594/H.009730.5	Task Order No. 7 - In-Depth Bridge Inspections	$92,522
		4400021594/H.009730.5	Task Order No. 8 - In-Depth Bridge Inspections	$173,672
	Bridge/Survey	4400024589/H.014990.5	OSBR S. Tiger Bend Rd & East Achord Rd Bridges	$49,265
		4400013387/H.013137.5	OSBR Ouachita	$23,249
		4400019864/H.014318.5	OSBR Gurney Road Bridges	$94,154
	Bridge	4400025037/H.014994.5	OSBR Bonne Idee Rd over Bonne Bayou	$70,902
	Road/Bridge	4400024641/H.005734.5	LA 447 Corridor	$180,226
	CE&I/OV	4400023837/H.013090.6	Gretna Downtown Pedestrian Improvements	$55,022
		4400023837/H.009290.6	LSU Laboratory School SRTS Project	$53,040
	Survey	4400021532/H.013537.5	LA 93: Ditch Bridge	$21,405
		4400025029/H.015341	D61(EBR) IIJA Off-System Bridge	$83,332
		4400025029/H.015341	D61(EBR) IIJA Off-System Bridge - SA 3	$47,004
		4400004128/H.004273.5	I-49 Connector	$35,942

Firm(s) *ALL FIRMS MUST BE REPRESENTED IN THIS TABLE*	*Past Performance Evaluation Discipline(s)*	*Contract Number and State Project Number*	*Project Name*	*Remaining Unpaid Balance ***
Forte & Tablada, Inc.	Bridge	4400021594/H.009859.5	Task Order No. 1 - Load Rate Selected Statewide Bridges	$165,129
	Bridge, Survey	4400021594/H.011965.6	Task Order No. 2 - IWGO Bridge Rehabilitation (Drone Flyover)	$52,359
	Bridge	4400021594/H.000303.6	Task Order No. 3 - Danziger Bridge Rehabilitation	$5,681
		4400021594/H.009730.5	Task Order No. 4 - In Depth Bridge Inspection T-1 Steel Weld Assessment	$562
		4400021594/H.015228.5	Task Order No. 5 - LA 70: Sunshine Bridge Emer Truss Repair	$123
		4400021594/H.009859.5	Task Order No. 6 - Load Rate Selected Statewide Bridges	$2,171,019
		4400021594/H.009730.5	Task Order No. 7 - In-Depth Bridge Inspections	$92,522
		4400021594/H.009730.5	Task Order No. 8 - In-Depth Bridge Inspections	$173,672
	Bridge/Survey	4400024589/H.014990.5	OSBR S. Tiger Bend Rd & East Achord Rd Bridges	$49,265
		4400013387/H.013137.5	OSBR Ouachita	$23,249
		4400019864/H.014318.5	OSBR Gurney Road Bridges	$94,154
	Bridge	4400025037/H.014994.5	OSBR Bonne Idee Rd over Bonne Bayou	$70,902
	Road/Bridge	4400024641/H.005734.5	LA 447 Corridor	$180,226
	CE&I/OV	4400023837/H.013090.6	Gretna Downtown Pedestrian Improvements	$55,022
		4400023837/H.009290.6	LSU Laboratory School SRTS Project	$53,040
	Survey	4400021532/H.013537.5	LA 93: Ditch Bridge	$21,405
		4400025029/H.015341	D61(EBR) IIJA Off-System Bridge	$83,332
		4400025029/H.015341	D61(EBR) IIJA Off-System Bridge - SA 3	$47,004
		4400004128/H.004273.5	I-49 Connector	$35,942
Vectura Consulting Services, LLC	Traffic	4400017293 H.010616	1-20: LA 544 overpass Replacement	$74,429
		4400005484 H.005168.2	New Orleans Rail Gateway Avondale EA	$92,995
		H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	$14,740
		4400021519 H.012030.5	KCS RR Overpasses HBI	$572
		4400023075 H.013522	S. Lewis Street Widening	$7,499
		4400018271 H.014746.5	LA 383 Stage 0 Corridor Study	$22,388

Firm(s) *ALL FIRMS MUST BE REPRESENTED IN THIS TABLE*	*Past Performance Evaluation Discipline(s)*	*Contract Number and State Project Number*	*Project Name*	*Remaining Unpaid Balance ***
Vectura Consulting Services, LLC	Traffic	4400017293 H.010616	1-20: LA 544 overpass Replacement	$74,429
		4400005484 H.005168.2	New Orleans Rail Gateway Avondale EA	$92,995
		H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	$14,740
		4400021519 H.012030.5	KCS RR Overpasses HBI	$572
		4400023075 H.013522	S. Lewis Street Widening	$7,499
		4400018271 H.014746.5	LA 383 Stage 0 Corridor Study	$22,388
Vectura Consulting Services, LLC	CE&I	4400020018 H.007160	EBR Computerized Traffic Signal, Ph VB	$33,910
	ITS	4400016364 H.015136.4	Northshore Regional ITS Architecture Update	$11,421
		4400017922 H.012345.1	C/AV Team and Working Group Support	$13,949
		44000020058 H.0111507.1	Monroe Phase 3 S A	$29,217
Marine Solutions, Inc. of Kentucky	N/A	N/A	N/A	N/A

20. Certifications/Licenses:

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

Michael Baker International, Inc. - Traffic Certifications

Certificate of Completion

presented to

Brandon Pitre

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: October 7, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Brandon Pitre

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: October 7, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Brandon Pitre

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 8, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

ATSSA
SAFER ROADS SAVE LIVES

American Traffic Safety Services Association

This is to affirm that

BRANDON PITRE

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Issue Date 12/20/2023
Exp. Date 12/20/2027
State Issued LA

Debbie Purcella
Instructor Name

Debbie Purcella
Instructor Signature

V0000263730

Verify at Flagger.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Brandon Pitre
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

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

Director of Training

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Daniel Thornhill
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

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

Director of Training

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA SAFER ROADS SAVE LIVES

Dear Certified Flagger:

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

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

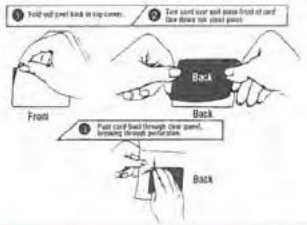
Once again, ATSSA thanks you for your dedication to ensuring that our work zones are safe and that lives will be saved with proper training. Please visit our website at www.atssa.com for additional training courses and work zone safety products.

Sincerely,

Donna M. Clarke

VP of Education and Technical Services

Laminating the front of your card with Dual Laminate:



ATSSA American Traffic Safety Services Association

This is to affirm that

DANIEL THORNHILL

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Issue Date 5/26/2023
Exp. Date 5/26/2027
State issued LA

Debbie Purcella
Instructor Name

Debbie Purcella
Instructor Signature

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

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

Mrs. Rebecca L. Murray

License/Certificate Type - Number	Expiration Date
PE.0043788	03/31/2026

Status: Active

Certificate of Completion

presented to

Rebecca LaPorte

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July 16, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Rebecca LaPorte

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: July 23, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Rebecca LaPorte Murray

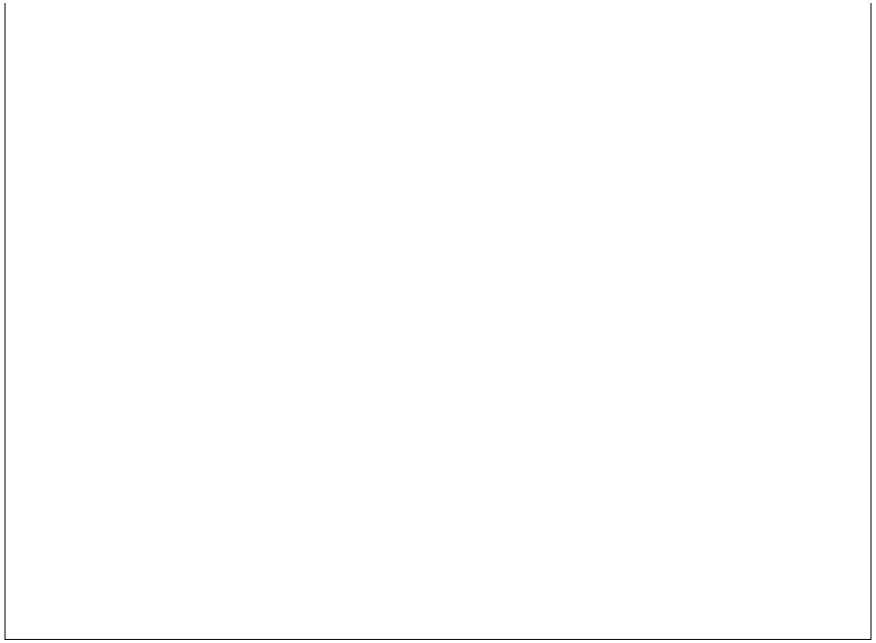
for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 15, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



THE LEAGUE
OF AMERICAN BICYCLISTS

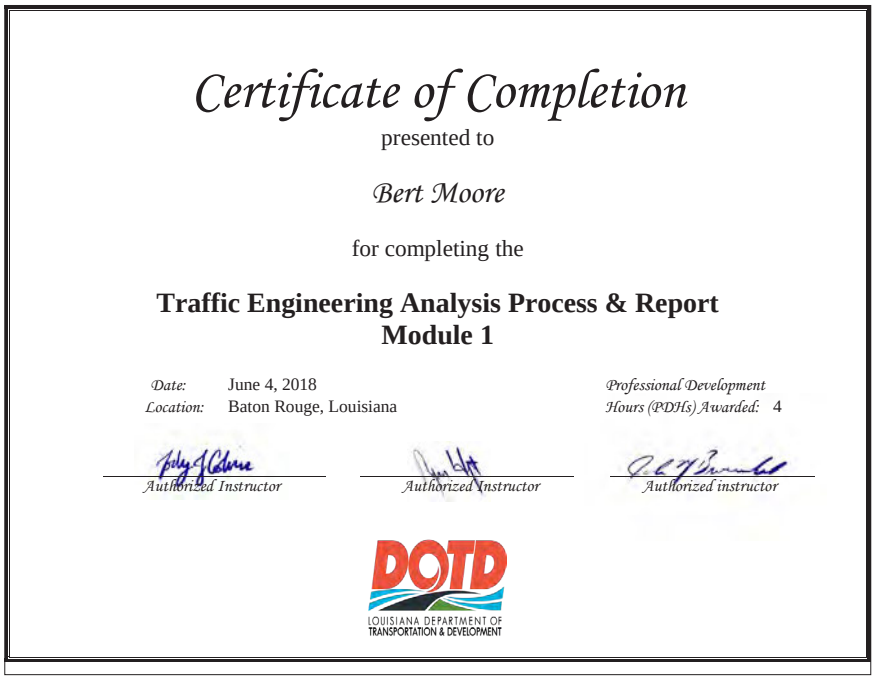
hereby makes it known that

Rebecca Murray

has successfully completed the Smart Cycling course, practiced cycling for hours and miles upon the road, has demonstrated proficiency by practical and written examination and therefore, has earned this certificate of completion of

SMART CYCLING

Instructor and LCI Number 3370 Date 9/29/18



Certificate of Completion

presented to

Bert Moore

for completing the

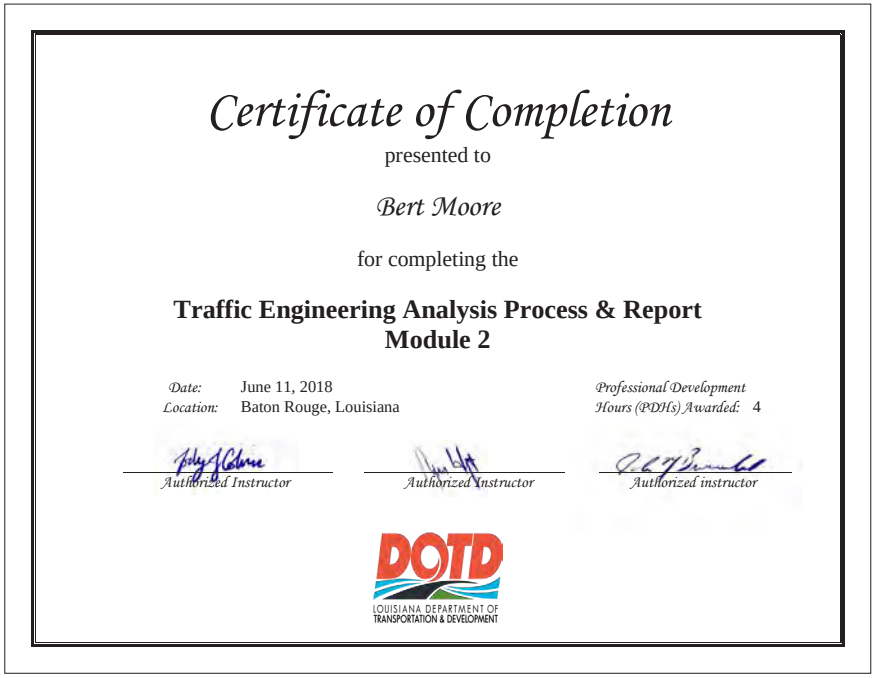
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Bert Moore

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Bert Moore

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor | *Authorized Instructor* | *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Trafficware
Engineered by Naztec

April 6, 2016

Mr. Bert Moore
Gresham Smith and Partners
10,000 Perkins Rowe
Suite 280
Baton Rouge, LA 70810

Subject: Trafficware Certification

Mr. Bert Moore,

Congratulations on your successful completion of Trafficware University certification requirements in our hardware, traffic management software, and traffic analysis/optimization software.

Please retain this letter to serve as an official document certifying that Mr. Bert Moore is fully certified in the operation and maintenance of all products manufactured and distributed by Trafficware Group, Inc.

Sincerely,

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Herbert Moore
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

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

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA American Traffic Safety Services Association

This is to affirm that

Herbert Moore

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Issue Date 5/9/2023
Exp. Date 5/8/2027
State Issued LA

ATSSA
Instructor Name

Instructor Signature

A1000126198

Verify at Flagger.com

Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July 30, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: August 6, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kristen Gahagan

for completing the

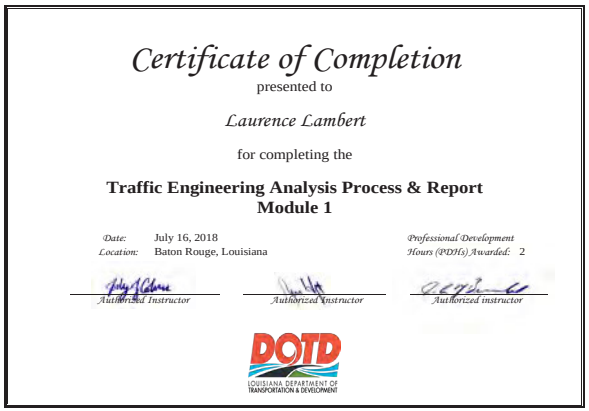
Traffic Engineering Analysis Process & Report
Module 3

Date: October 29, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Laurence Lambert

for completing the

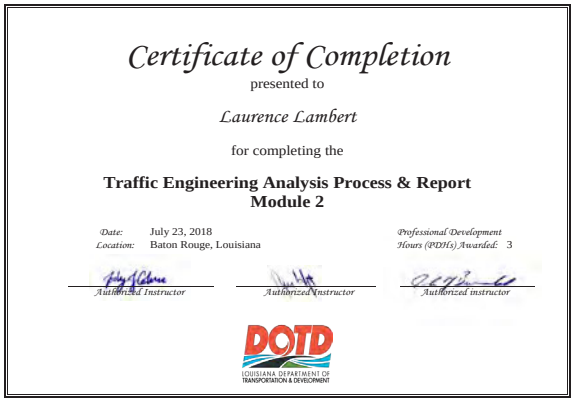
Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Laurence Lambert

for completing the

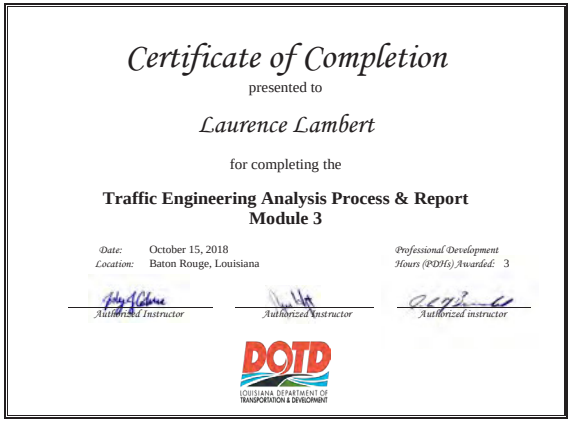
Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

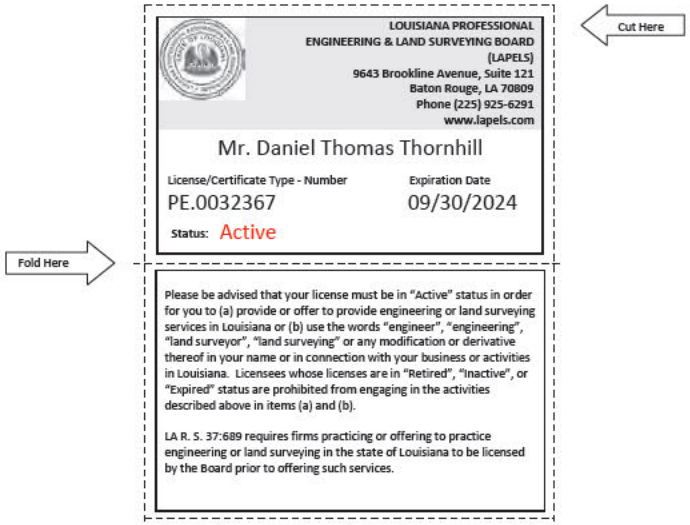
Authorized Instructor *Authorized Instructor* *Authorized Instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 7/24/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Daniel Thomas Thornhill
18532 Bellingrath Lakes Avenue
Greenwell Springs, Louisiana 70739



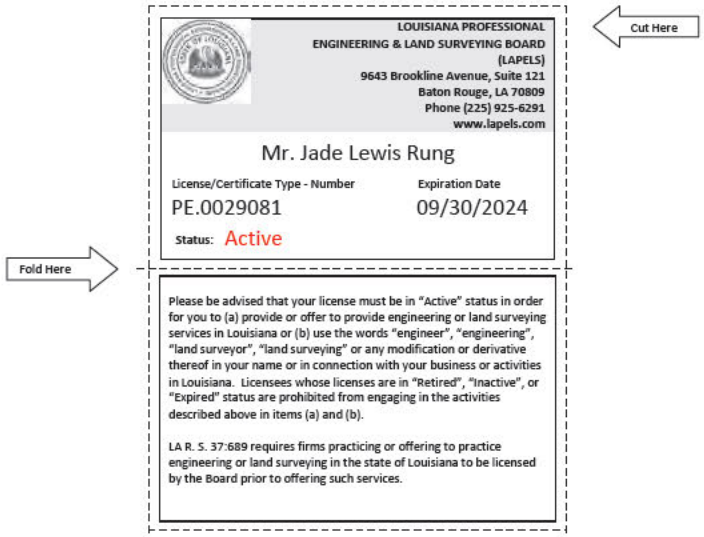
Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

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

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 7/24/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Jade Lewis Rung
106 Park Place
Covington, Louisiana 70433



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

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

LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 7/24/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Ellis Luke McMahen
310 New Pointe Drive
Ridgeland, Mississippi 39157

Cut Here

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

Mr. Ellis Luke McMahen

License/Certificate Type - Number	Expiration Date
PE.0039510	09/30/2025

Status: Active

Fold Here

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

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

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

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Luke McMahen

has successfully completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by
Louisiana Department of Transportation and Development

Date: *June 25-27, 2024* *Hours of Instruction:* 22
Location: *Baton Rouge, LA*

Mark Nyerges Digitally signed by Mark Nyerges Date: 2024.07.10 15:30:44 -04'00'
Instructor

Earl Dubin Digitally signed by Earl Dubin Date: 2024.07.11 10:19:49 -04'00'
Instructor

Allison Landry
Local Coordinator

Stacey Caston
Stacey Caston, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Christopher Princiotta

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Office of State Aid Road Construction

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

Hours of Instruction: 18

Instructor

Instructor

Marie V Allbritton
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Christopher Princiotta

has participated in

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

hosted by

Office of State Aid Road Construction

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

Hours of Instruction: 67

Guy R Lang PE
Instructor

Patrick Mateus, PE
Instructor

Marie Allbritton
Local Coordinator

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Nathaniel Joseph

has participated in

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

hosted by

North Dakota Department of Transportation

Date: July 26 - August 6, 2021
Location: Bismarck, ND

Hours of Instruction: 67

Instructor

Instructor

Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Christopher Princiotta

has participated in

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

hosted by

Office of State Aid Road Construction

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

Hours of Instruction: 25

Instructor

Instructor

Marie Allbritton
Local Coordinator

Michael Davies P.E.
Director, National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Nicholas Riha

has participated in

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

hosted by

Collins Engineers, Inc.

Date: August 10-21, 2015
Location: Chicago, IL

Hours of Instruction: 67 Hours

Guy R Lang PE
Instructor

Local Coordinator

Dennis R. Bauguess, P.E.
Instructor

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Daniel Contreras

has Successfully Completed

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

hosted by

Nebraska LTAP

Date: September 19-30, 2022
Location: Lincoln, NE

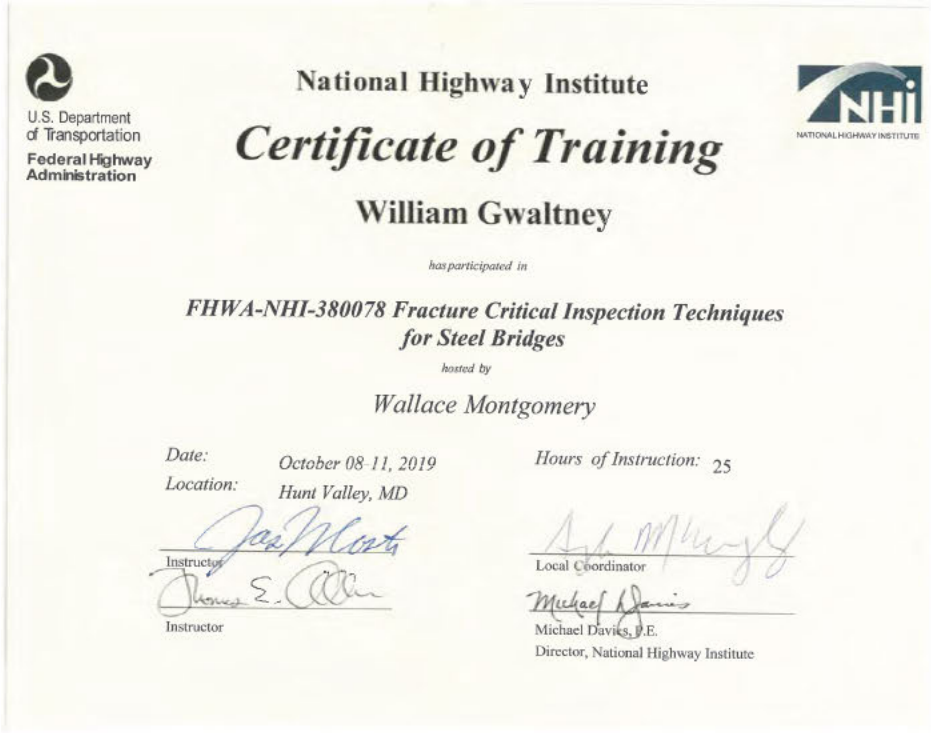
Hours of Instruction: 67

Randall Conrad, P.E.
Instructor

Instructor

Phyllis Schwab
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute



U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

William Gwaltney

has participated in

FHWA-NHI-380078 Fracture Critical Inspection Techniques for Steel Bridges

hosted by

Wallace Montgomery

Date: October 08-11, 2019
Location: Hunt Valley, MD

Hours of Instruction: 25

Instructor

Instructor

Local Coordinator

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

William Gwaltney

has participated in

FHWA-NHI-130053 – Bridge Inspection Refresher Training

hosted by

New Jersey Department of Transportation

Date: June 28-30, 2022
Location: Trenton, NJ

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

William C. Gwaltney

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Collins Engineers Inc.

Date: *February 4-7, 2015*
Location: *Portsmouth, NH*

Hours of Instruction: 27

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solution for Transportation Excellence

William Gwaltney

has participated in

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

hosted by

ConnDOT

Date: June 5-16, 2017
Location: Newington, CT

Hours of Instruction: 67

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

Certificate of Achievement

Let it be known that

William Gwaltney

Has successfully completed 8 hours of Classroom Training
for Qualification of Nondestructive Testing Personnel in the method of
Ultrasonic, Level II
February 11, 2021

American Testing Services, Ltd.
2000 Old Byers Road Miamisburg, OH 45342

Training by American Testing Services, Ltd.

Mike Philipps,
NDE Level III Instructor

Certificate of Achievement

Let it be known that

William Gwaltney

Has successfully completed 8 hours of Classroom Training
for Qualification of Nondestructive Testing Personnel in the method of
Magnetic Particle, Level II
February 12, 2021

American Testing Services, Ltd.
2000 Old Byers Road Miamisburg, OH 45342

Training by American Testing Services, Ltd.

Mike Philipps,
NDE Level III Instructor

THE FACULTY AND STAFF OF

MINNESOTA COMMERCIAL DIVER TRAINING CENTER

HEREBY ACKNOWLEDGES THAT

WILLIAM C. GWALTNEY

HAS SATISFACTORILY COMPLETED THE REQUIREMENTS FOR THE

ADCI ENTRY LEVEL TENDER/DIVER
&
DCBC INTERNATIONAL RESTRICTED SURFACE SUPPLIED DIVER CERTIFICATIONS

AND IS HEREBY ADMITTED THE RIGHTS AND PRIVILEGES
BELONGING TO THAT TRAINING AND ACHIEVEMENT.
MAY 14TH 2016

SEAL

DIRECTOR OF EDUCATION

EXECUTIVE DIRECTOR

PRESIDENT

Association of Diving Contractors International

Cert. # 62853

Expires 04/21/2026

ADCI

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

WILLIAM C. GWALTNEY I.D. 6190

Commercial Diver Certification Card

On-site training based on

U.S. Department
Of Transportation

Federal Highway Administration's
BTTM 90
80-hour Course

Certificate of Training

Christopher T. Perry

has satisfactorily completed training in

Safety Inspection of In-Service Bridges

conducted by

Collins Engineers, Inc.

Location: Connecticut

Date: November 2007

Hours of Instruction: 80

Continuing Education Units: 6.0

Instructor

Coordinator

U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training

Christopher Perry

has participated in

Bridge Inspection Refresher Training NHI

hosted by

Washington State Department of Transportation
Local Programs LTAP Center

Date: April 12, 2022-April 14, 2022

Hours of Instruction: 18 hours

Location: Spokane, Washington

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training

Christopher T. Perry

has participated in

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

hosted by

Marlin Engineering, Inc.

Date: *July 13-24, 2015*

Hours of Instruction: 67

Location: *Plantation, FL*

Instructor

Local Coordinator

Instructor

Valerie Briggs, Director
National Highway Institute

U.S. Department
Of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training

Christopher Perry

has participated in

FHWA-NHI-130053A-Bridge Inspection Refresher Training

hosted by

ConnDOT

Date: May 23-26, 2017

Hours of Instruction: 21

Location: Newington, CT

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Christopher Perry

has participated in

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

hosted by
ConnDOT

Date: Dec. 11-14, 2012
Location: Newington, CT

Hours of Instruction: 21

Instructor

Instructor

Local Coordinator

Richard J. Barnaby, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

National Highway Institute
Certificate of Training

Christopher T. Perry

has participated in

Underwater Bridge Inspection
NHI Course 130091

hosted by

Collins Engineers, Inc.

Location: Connecticut
Date: October, 2010

Hours of Instruction: 20
PDH: 20
CEU: 2.0

Instructor

Director, National Highway Institute
Federal Highway Administration

Coordinator

Director, Office of Professional Development
Federal Highway Administration

[redacted]

Association of Diving Contractors International

Cert. # 52909

Expires 05/03/2028

ADCI

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

CHRISTOPHER T. PERRY I.D. 118190710

Commercial Diver Certification Card

[redacted]

National Highway Institute

Certificate of Training

Christopher T. Perry

has participated in

Inspection and Maintenance of Ancillary Highway Structures
NHI Course 130087

hosted by

Collins Engineers, Inc.

Location: Rocky Hill, Connecticut ***Hours of Instruction:*** 12

Date: October 28-29, 2010

Michael J. Garlich, P.E. S.E.

Christopher Perry

Diver # 394256 Sep 10, 2010

Qualified in the use of 22% to 40% nitrox to a maximum depth of 130 fsw/40 msw.

Nitrox Diver

MN School of Diving
Brainerd MN UNITED STATES

Inst: Kent Honnold # 427

RSTC / EUF Member **www.tdisdi.com**

National Highway Institute

Certificate of Training

Brian M. Rhett

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

National Highway Institute

Date: February 10-13, 2014 ***Hours of Instruction:*** 21

Location: New Orleans, LA

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

National Highway Institute

Certificate of Training

Brian Rhett

has participated in

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

hosted by

Collins Engineers, Inc.

Date: February 22, 2022 *Hours of Instruction:* 6

Location: St. Paul, MN

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

National Highway Institute

Certificate of Training

Brian Rhett

has participated in

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

hosted by

HQ Installation Management Command

Date: *20-31 July 2015* ***Hours of Instruction:*** 60

Location: *Fort Jackson, SC*

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

National Highway Institute

Certificate of Training

Brian Mark Rhett

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Texas Department of Transportation

Date: December 8 - 11, 2020 *Hours of Instruction:* 18

Location: Virtual Delivery, TX

Instructor

Instructor

Shandon Richardson

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

national highway institute

Certificate of Training

Brian RHETT

has successfully completed

Plan of Action (POA) for Scour Critical Bridges

Date: 05/10/2024

Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute

THE FACULTY AND STAFF OF

MINNESOTA COMMERCIAL DIVER TRAINING CENTER, INC.

HEREBY ACKNOWLEDGE THAT

BRIAN M. RHETT

HAS SATISFACTORILY COMPLETED THE REQUIREMENTS FOR THE

ADCI COMMERCIAL DIVER/TENDER COURSE & DCBC
CANADIAN RESTRICTED SURFACE SUPPLIED DIVER

AND IS HEREBY ADMITTED THE RIGHTS AND PRIVILEGES
BELONGING TO THAT TRAINING AND ACHIEVEMENT.

NOVEMBER 15, 2013

DIRECTOR OF EDUCATION

EXECUTIVE DIRECTOR

PRESIDENT

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Brian Mark Rhett

has Successfully Completed

FHWA-NHI-130078 Bridge Inspection Techniques for NSTMs

hosted by

South Carolina Department of Transportation

Date: *May 21-23, 2024*
Location: *Columbia, SC*

Hours of Instruction: 20

Instructor

Instructor

Local Coordinator

Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute

I UNITED STATES OF AMERICA XI
DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
IV NAME
BRIAN MARK RHETT
V ADDRESS 338 OLD SOUTH WAY
MOUNT PLEASANT SC 29464-7855

VI NATIONALITY	SEX	HEIGHT	WEIGHT	HAIR	EYES
IVa D.O.B. 23 JAN 1987	M	72	190	BROWN	HAZEL

IX HAS BEEN FOUND PROPERLY QUALIFIED TO EXERCISE THE PRIVILEGES OF
II REMOTE PILOT
III CERTIFICATE NUMBER 4560365
X DATE OF ISSUE 2 SEP 2021

XIV
VIII ADMINISTRATOR

U S A

Certificate of Achievement

Let it be known that

Brian Rhett

Has successfully completed 8 hours of Classroom Training
for Qualification of Nondestructive Testing Personnel in the method of
Magnetic Particle, Level II
February 12, 2021

American Testing Services, Ltd.
2000 Old Byers Road Miamisburg, OH 45342

Training by American Testing Services, Ltd.

Mike Philipps,
NDE Level III Instructor

Certificate of Achievement

Let it be known that

Brian Rhett

Has successfully completed 8 hours of Classroom Training
for Qualification of Nondestructive Testing Personnel in the method of
Ultrasonic, Level II
February 11, 2021

American Testing Services, Ltd.
2000 Old Byers Road Miamisburg, OH 45342

Training by American Testing Services, Ltd.

Mike Philipps,
NDE Level III Instructor

Association of Diving Contractors International

Cert. # 55452

Expires 02/19/2027

ADCI

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

BRIAN MARK RHETT I.D. 309764349

Commercial Diver Certification Card

The Association of Diving Contractors International (ADCI) issues this Certification Card to the bearer relying only upon statements or information received that the named individual has completed all training, field experience, and necessary on-the-job performance to warrant identification as a Commercial Diver at the level of experience stated herein. ADCI accepts no responsibility or liability for the failure of the bearer to perform his or her duties at any stated level of ability.

Additional specialized training and/or qualifications gained while engaged in the practice of commercial diving are to be recorded in his or her company maintained personnel records and appropriate personal Diver's Log Books.

At a minimum, all commercial diving operations must be undertaken with a minimum of a three man diving team in accordance with the ADCI International Consensus Standards for Commercial Diving Operations, (current edition).

The USCG formally recognizes this certification to fully meet the requirements of 46 CFR part 197, subpart B.

Questions should be directed to ADCI at (281) 893-8388, Fax (281) 893-3118 or www.adc-int.org

OEC-7061301

CERTIFICATE OF COMPLETION

OSHA EDUCATION CENTER

American Safety Council

BRIAN RHETT

Has diligently and with merit completed a
30-Hour OSHA Hazard Recognition Training for the Construction Industry Course
on 8/21/2019
from the OSHA Education Center and the American Safety Council Inc.

Director Jeffrey Pairan

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Tristin Avery Stewart

has Successfully Completed

FHWA-NHI-130078 Bridge Inspection Techniques for NSTMs

hosted by

South Carolina Department of Transportation

Date: May 21-23, 2024
Location: Columbia, SC

Hours of Instruction: 20

Instructor

Instructor

Local Coordinator

Stacey J. Caston, Director
National Highway Institute

Association of Diving Contractors International

Cert. # 62494

Expires 02/25/2026

ADCI

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

TRISTIN A. STEWART I.D. 105585818

Commercial Diver Certification Card

Association of Diving Contractors International

Cert. # 62259

Expires 01/12/2026

ADCI

SURFACE-SUPPLIED AIR DIVER

TRISTIN A. STEWART I.D. 7392

Commercial Diver Certification Card

Santa Barbara City College

MARINE DIVING TECHNOLOGY PROGRAM
SANTA BARBARA, CALIFORNIA

Certificate of Completion

Tristin Avery Stewart

HAS COMPLETED SUCCESSFULLY THE CLASSES IN

Commercial Diver Training

in accordance with American National Standards Institute ANSI/ACDE-01-2015

Instructor

Instructor

May 10, 2019

Date of Issue

Department Director

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Tristin Stewart

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

A.DiCesare Associates, PC

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

Hours of Instruction: 24

Instructor

Instructor

Local Coordinator

Stacey J. Caston, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Lee M. Murdoch

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

KCI Technologies, Inc.

Date: *August 13-16, 2013*
Location: *Sparks, MD*

Hours of Instruction: 24

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Lee Murdoch

has participated in

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

hosted by

Whitman, Requardt & Associates, LLP

Date: *October 01-12, 2018*
Location: *Baltimore, MD 21231*

Hours of Instruction: 67

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Lee Murdoch

has Successfully Completed

NHI Course 130053
Bridge Inspection Refresher Training

hosted by

RK&K

Date: May 2 – 4, 2023
Location: Baltimore, Maryland

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Stacey J. Caston, Acting Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Lee M. Murdoch

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

KCI Technologies, Inc.

Date: *August 13-16, 2013*
Location: *Sparks, MD*

Hours of Instruction: 24

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation
9960 Mayland Drive, Suite 400, Richmond, VA 23233
Telephone: (804) 367-8500

EXPIRES ON
03-31-2026

NUMBER
0402068067

BOARD FOR ARCHITECTS, PROFESSIONAL ENGINEERS, LAND SURVEYORS, CERTIFIED INTERIOR DESIGNERS AND LANDSCAPE ARCHITECTS
PROFESSIONAL ENGINEER LICENSE

LEE MITCHELL MURDOCH
2A BRAY CT
CATONSVILLE, MD 21228

DPOR

Status can be verified at http://www.dpor.virginia.gov

DIVERS ACADEMY INTERNATIONAL

1500 Liberty Place • Erial, New Jersey

Presents this Diploma to

Lee Mitchell Murdoch

This 27TH day of MAY 2015

Who has demonstrated the skill and proficiency with Surface Supplied Air and Helium Diving Equipment to ANSI / ACDE 01-2009 Standards to be eligible for graduation as a Commercial Deep Sea Diver.

720 HOURS

President/Director Gisella M. Brown

DIVERS ACADEMY INTERNATIONAL

Certificate of Completion

360training.com™

This Certifies That

Lee Murdoch

is awarded this certificate for

OSHA 30 Hour Construction Industry Outreach Training

Credit Hours: 30
Completion Date: 05/28/2012 10:14 CST
SID: 1788758

Michael Millsap, Trainer C 0034819 and G 021414

"As an OSHA authorized trainer, I verify that I have conducted this OSHA outreach training class in accordance with OSHA Outreach Training Program requirements. I will document this class to my authorizing OSHA training organization. Upon successful review of my documentation, I will provide each student their completion card within 90 days of the end of the class."

360training.com ♦ 13801 Burnet Rd., Suite 100 ♦ Austin, TX 78727 ♦ 888-360-TRNG ♦ www.360training.com

Association of Diving Contractors International

ADCI

Cert. # 57517

Expires 03/23/2028

SURFACE-SUPPLIED AIR DIVER

LEE MURDOCH I.D. 5421

Commercial Diver Certification Card

AMP SALES & SERVICES, LLC
(540) 586-1021

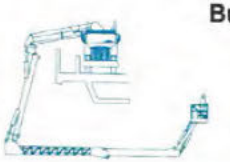
Certificate of Completion

This certifies that

Courtney Rome

Has successfully completed all requirements defined in
ANSI Regulation A92.24, A92.8, and A92.22 to be qualified

Mobile Elevated Work Platform
Bucket Operator: Group B, Type 2



Sept 3rd, 2020 , Mark Luft, Trainer
Date
EXP 9/3/25

www.ampservicesllc.com

[redacted]

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

John Weres

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

New Jersey Department of Transportation

Date: April 6 - 8, 2021
Location: Virtual Delivery, NJ

Hours of Instruction: 18

Instructor

Instructor

Douglas J. Tintle
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

John Weres

has participated in

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

hosted by
Kansas Department of Transportation

Date: *February 2-13, 2015*
Location: *Topeka, Kansas*

Hours of Instruction: 67

Guy R Lang PE
Instructor

William R Yandow PE
Instructor

Becky Welsh
Local Coordinator

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

JOHN WERES

has participated in

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

hosted by

LA DOTD/LTRC

Date: February 26 – March 1, 2019 Hours of Instruction: 25

Location: Baton Rouge, LA

Instructor

Instructor

Allison H. Landry
Local Coordinator

Michael Davies, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

John Weres

has participated in

FHWA-NHI-130092 Load and Resistance Factor Rating of Highway Bridges

hosted by

Mississippi Department of Transportation

Date: June 07-10, 2022 Hours of Instruction: 24

Location: Jackson, MS

Instructor

Instructor

Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

John Weres

has participated in

FHWA-NHI-130091B Underwater Bridge Repair, Rehabilitation, and Countermeasures

hosted by

Texas Department of Transportation

Date: July 17 –18, 2018 Hours of Instruction: 14

Location: Fort Worth, TX

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

John Were

has participated in

FHWA-NHI-130087 Inspection and Maintenance of Ancillary Highway Structures

hosted by

COLLIERS ENGINEERING & DESIGN

Date: October 28-29, 2021 Hours of Instruction: 12

Location: Miami, FL

Instructor

Instructor

Cory Joseph Hogan
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

NACE INTERNATIONAL INSTITUTE

Certificate of Achievement

The NACE International Institute Recognizes

Robert Lanterman

As a Certified

NACE Certified Coating Inspector - Level 3

Executive Director
NACE International Institute

Expires
May 23, 2025

Cert No.13505

100520

AMPP
The Global Leaders in Materials Protection and Performance

SSPC PCS

Certifies

Robert Lanterman, PCS

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

PROTECTIVE COATINGS SPECIALIST

Valid Through December 31, 2027

2015-820-136
Certification Number

August 20, 2015
Original Date Issued

Executive Director AMPP

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

September 3, 2020

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

ASNT ID# 186946

Dear Mr James A Kretzler:

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

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

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

Sincerely,

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

The American Society for Nondestructive Testing, Inc.

James A Kretzler

has met the heretofore published ASNT requirements for certification as

ASNT NDT Level III

in the nondestructive testing methods indicated:

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

ASNT - Director of Certification

186946
Certificate Number

Association of Diving Contractors International

Cert. # 44118

Expires 12/12/2026

ADCI

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

JOHN J. LOFTUS I.D. 1765

Commercial Diver Certification Card

Oxygen First Aid for
Scuba Diving Injuries (EO2) **Provider**

Name: John Loftus
Completed: January 5, 2023
Instructor: Jackson Graves
Instructor ID# 70041

(Card expires 2 years after Approved date.)

Meets ILCOR/AHA 2021 Guidelines

This person has met or exceeded the performance requirements for course completion set by Divers Alert Network.
Expires two years from completed date.

DAN

ATEM

CPR

AED

First Aid

AMERICAN TRAUMA EVENT MANAGEMENT

This certifies that

John Loftus

Has successfully completed the training requirements consistent with the most current AHA ECC guidelines for:

	YES	NO		YES	NO
Adult CPR	☑	☐	Standard First Aid	☑	☐
Child CPR	☐	☑	Essential First Aid	☐	☑
Infant CPR	☐	☑	AED	☑	☐

JAN 0 4 2023 *Date Completed*

JAN 0 4 2025 *Expiration Date*

Maggie Wilkins
Authorized Instructor (print name)

Holder's Signature

859-354-9828
Training Center Phone Number

BLUEGO
Training Center Name

Successful completion verifies that the card holder has met the requirements for the cognitive knowledge and skill objectives of the curriculum as based on the recommendations of the ECC, AHA and ILCOR 2020 Guidelines

---

THE FACULTY AND STAFF OF

MINNESOTA COMMERCIAL DIVER TRAINING CENTER, INC.

HEREBY ACKNOWLEDGE THAT

JOHN J. LOFTUS III

HAS SATISFACTORILY COMPLETED THE REQUIREMENTS FOR THE

ADCI COMMERCIAL DIVER/TENDER COURSE

AND IS HEREBY ADMITTED THE RIGHTS AND PRIVILEGES BELONGING TO THAT TRAINING AND ACHIEVEMENT.

SEPTEMBER 29, 2009

SEAL

EXECUTIVE DIRECTOR/INSTRUCTOR

PRESIDENT

Redpoint Medical
128 Southland Drive, Suite 110
Lexington, KY 40503 - 1953
Tel: 859 223-1963 x
Fax: 859 223-1964 x

MARINE SOLUTIONS
MEDICAL SUITABILITY CERTIFICATE
FOR DIVING PHYSICALS

Applicant Name: LOFTUS, John

Date of Exam: 01-09-2024
Exam performed by: Gregory Snider, MD

Physician Recommendation:

Notes:

Based upon my evaluation of the exam, LOFTUS, John is:

APPROVED AND FIT TO DIVE

Gregory Snider, MD - Certifying Physician
Exam Date: 01-09-2024

This Certificate Expires: 01-09-2025

Notes:

1. Diving physicals performed in accordance with the protocol defined by the Association of Diving Contractors International, ADCI.
2. Dr. Gregory Snider certified as Medical Examiner of Divers by the Undersea & Hyperbaric Medical Society


VectorSolutions

Training Certificate of Achievement

Hereby Acknowledges that

John Loftus III

has completed the in-service training on 1/2/2024 for

Bloodborne Pathogens

Congratulations on your completion of this 0.43 hour online course.

Michael Ojdana, Chief Learning Officer, Content

As an IACET Accredited Provider, Vector Solutions offers CEUs for its programs that qualify under the ANSI/IACET Standard

ACCREDITED IACET PROVIDER

Vector Solutions | Two Urban Centre | 4890 West Kennedy Boulevard | Suite 300, Tampa, FL 33609 | 866.546.1212


ISEI2030-6944463

UCSanDiego | Extension

INTERNATIONAL SAFETY EDUCATION INSTITUTE (ISEI)

American Safety Council

This card certifies that

JOHN LOFTUS

has completed a 30-Hour OSHA Hazard Recognition Training for General Industry

04/05/2013

Director: Scott MacKay Trainer: Taylor Sikes Grad. Date

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

John Loftus

has participated in

Safety Inspection of In-Service Bridges

hosted by

Wisconsin Department of Transportation

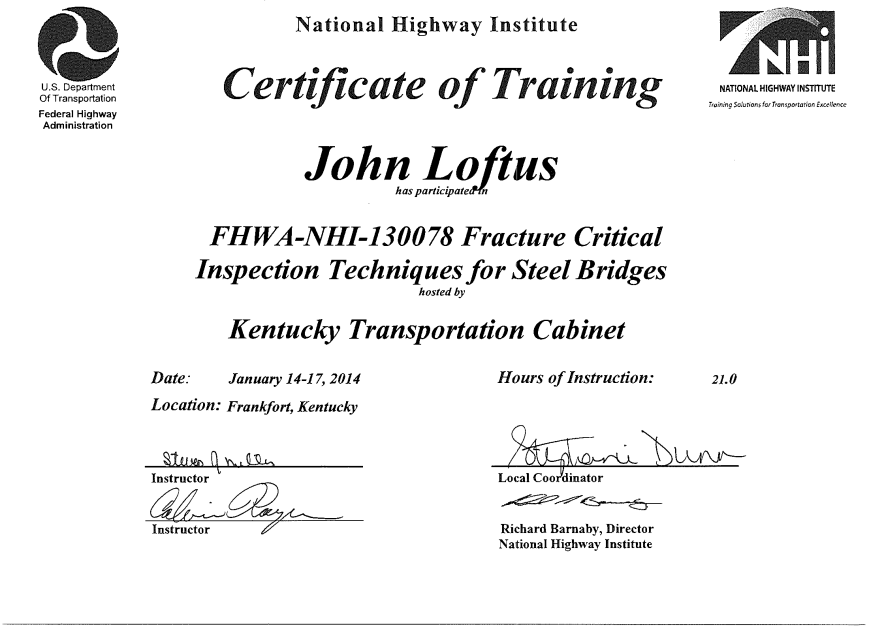
Location: Madison, Wisconsin
Hours of instruction: 80

Date: March 27 - April 7, 2006

Instructor
Coordinator

Director, National Highway Institute
Federal Highway Administration

Director, Office of Professional and Corporate Development
Federal Highway Administration



U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Certificate of Training

John Loftus

has participated in

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

hosted by

Kentucky Transportation Cabinet

Date: January 14-17, 2014
Location: Frankfort, Kentucky

Hours of Instruction: 21.0

Instructor
Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

John Loftus

has participated in

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

hosted by

Kentucky Transportation Cabinet

Date: March 14, 2023
Location: Frankfort, KY

Hours of Instruction: 6

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Certificate of Training

John J. Loftus

has participated in

FHWA-NHI-130087 Inspection and Maintenance of Ancillary Highway Structures

hosted by

Collins Engineers, Inc.

Date: January 18-19, 2012
Location: Chicago, IL

Hours of Instruction: 12

Instructor
Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

nhi national highway institute

John Loftus

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Mattern & Craig

Date: November 17-19, 2020 *Hours of Instruction:* 18

Location: Virtual Delivery, VA

Instructor

Instructor

Chad M. Thomas
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NHI
NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

John Loftus

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Terracon Consultants, Inc.

Date: May 06 - May 9, 2014 *Hours of Instruction:* 24 hrs.

Location: Cincinnati, OH

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

THE FACULTY AND STAFF OF

MINNESOTA COMMERCIAL DIVER TRAINING CENTER

HEREBY ACKNOWLEDGES THAT

KYLE MORROW

HAS SATISFACTORILY COMPLETED THE REQUIREMENTS FOR THE

ADCI ENTRY LEVEL TENDER/DIVER
&
DCBC INTERNATIONAL RESTRICTED SURFACE SUPPLIED DIVER CERTIFICATIONS

AND IS HEREBY ADMITTED THE RIGHTS AND PRIVILEGES BELONGING TO THAT TRAINING AND ACHIEVEMENT.

AUGUST 8TH, 2018

EXECUTIVE DIRECTOR

PRESIDENT

MARINE SOLUTIONS, INC.
MEDICAL SUITABILITY CERTIFICATE
FOR DIVING PHYSICALS

PHYSICIAN RECOMMENDATION:

Based on my evaluation Kyle Morrow is:

X APPROVED AND FIT TO DIVE

____NOT APPROVED AND NOT FIT TO DIVE

Certifying Physician: Sandra Green CNP (Printed Name)
Sterling Williams, MD

Physician Address and Phone Number:
(Include Signature Stamp)

Concentra Rosedale
8675 Pulaski Hwy
Rosedale, MD 21237
P: 410-687-6462
F: 410-687-2281

Physician Signature: Sandra Green CNP Date: 1/4/24
Sterling Williams, MD

Period of Certification: 1 year

Notes

1. Diving physicals performed by a Physician Assistant or Nurse Practitioner require a counter-signature by a physician on this form.
2. Diving physicals must be performed in accordance with the protocol defined by the Association of Diving Contractors International.

Association of Diving Contractors International

Cert. # 63170

Expires 07/02/2026

ADCI

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

KYLE A. MORROW I.D. 6784

Commercial Diver Certification Card

Diving First Aid for Professional Divers — **Provider**

Includes: CPR, Oxygen, First Aid, Neuro Assessment, & Hazardous Marine Life Injuries

Name: Kyle Morrow
Completed: November 21, 2022
Instructor: Jeffrey Kline ID# 15704

Meets ILCOR/AHA 2021 Guidelines

This person has met or exceeded the performance requirements for course completion set by Divers Alert Network.
Expires two years from completed date.

DAN

CERTIFICATE
of ACHIEVEMENT
HEREBY ACKNOWLEDGES THAT

Kyle Andrew Morrow

has completed the in-service training for

Bloodborne Pathogens RVCT_303B

Congratulations on your completion of this 0.43 hour online course.

11/20/2023
Course Completion Date

Vicki Zaleski, SVP of Content & Communications
Vector Solutions
Tidal Urban Center
4890 West Kennedy Boulevard
Suite 300, Tampa, FL 33609

ACCREDITED IACET PROVIDER

As an IACET Accredited Provider, Vector Solutions offers CEUs for its programs that qualify under the ANSI/IACET Standard.

VectorSolutions

OSHA Outreach Training
Completion Certificate

KYLE ANDREW MORROW
has successfully completed the following course:

OSHA 30-Hr Outreach Training for the Construction Industry

8/9/2021

David Couch
OSHA Authorized Trainer
Construction #: 20-0106090 General #: 20-0079854

As an OSHA Outreach trainer, I verify that I have conducted this OSHA Outreach training class in accordance with OSHA Outreach Training Program requirements. I will document this class to my OSHA Authorizing Training Organization. Upon successful review of my documentation, I will provide each student their completion card within 90 days of the end of the class.

OSHA Authorized Provider:
UNIVERSITY of SOUTH FLORIDA

---

pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Kyle A. Morrow

Completed the class

BASIC COURSE ON BRIDGE SAFETY INSPECTION

Sponsored by the Highway Administration Deputate

DATE: September 28-October 15, 2015
LOCATION: Harrisburg, PA
TRAINING ORGANIZATION: Michael Baker International
INSTRUCTOR: Harold Rogers, Bryan Spangler
TEST SCORE: 79%
CONT. ED. CREDITS*: 96.5 PDHs

Randall Shull
Training Development Manager

Access the Technical Training and Development Section's Training Calendar for information on current program offerings http://www.dot.state.pa.us/tc. Students must receive a test score of 70% or higher to pass the course. Students who do not take the class test receive N/A in lieu of a test score and their training record is marked "Incomplete." Should you have any questions about this certificate or exam scores, please contact us at 717-787-6898.

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

Rev. September 2014

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Kyle Morrow

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Marine Solutions, Inc.

Date: *October 04-07, 2021*
Location: *Nicholasville, KY*

Hours of Instruction: 24

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Kyle A. Morrow

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

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

Date: *February 06-08, 2024*
Location: *Harriman, NY*

Hours of Instruction: 22

Instructor

Instructor

Local Coordinator

Stacey J. Caston

Stacey J. Caston, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Kyle Morrow

has participated in

Inspection and Maintenance of Ancillary Highway Structures

hosted by

Wallace Montgomery

Date: *January 11-12, 2022*
Location: *Hunt Valley, MD*

Hours of Instruction: 12

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Kyle Morrow

has participated in

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

hosted by

Ohio Department of Transportation

Date: *May 3-6, 2016*
Location: *Columbus, OH*

Hours of Instruction: 25

Instructor

Instructor

Local Coordinator

Victoria Beale

Valerie Briggs, Director
National Highway Institute

THE FACULTY AND STAFF OF

MINNESOTA COMMERCIAL DIVER TRAINING CENTER

HEREBY ACKNOWLEDGE THAT

JEREME R. WHITING

HAS SUCCESSFULLY COMPLETED 120 TRAINING HOURS IN

Surface Supplied Diving for Engineer-Diver Inspection Operations

MEETING REQUIREMENTS FOR SAFE DIVING PER OSHA DIVING STANDARDS 29CFR1910.410

&

ADCI Entry Level Tender/Diver

&

DCBC International Restricted Surface Supplied Diver Certifications

November 4th, 2016

SEAL

Executive Director

President

Redpoint MEDICAL PSC

Redpoint Medical
128 Southland Drive, Suite 110
Lexington, KY 40503 - 1953
Tel: 859 223-1963 x
Fax: 859 223-1964 x

MARINE SOLUTIONS
MEDICAL SUITABILITY CERTIFICATE
FOR DIVING PHYSICALS

Applicant Name: WHITING, Jereme

Date of Exam: 07-08-2024
Exam performed by: Gregory Snider, MD

Physician Recommendation:

Notes:

Based upon my evaluation of the exam, WHITING, Jereme is:

APPROVED AND FIT TO DIVE

GTS MD

Gregory Snider, MD - Certifying Physician
Exam Date: 07-08-2024

This Certificate Expires: 07-08-2025

Notes:

1. Diving physicals performed in accordance with the protocol defined by the Association of Diving Contractors International, ADCI.
2. Dr. Gregory Snider certified as Medical Examiner of Divers by the Undersea & Hyperbaric Medical Society

U.S. Department of Transportation Federal Highway Administration

National Highway Institute
Training Solutions for Transportation Excellence

Participant Training History
Issued by National Highway Institute

FIRST NAME: Jereme	LAST NAME: Whiting	PARTICIPANT ID

ADDRESS
RJM Engineering
6031 University Boulevard, Suite 290
Elliot City, MD 21043

TELEPHONE:
410-730-1001

Session ID	Course#	Course Title	Start Date	End Date	Location	CEU
20130732	130078	Fracture Critical Inspection Techniques for Steel Bridges Score: Pass	05/21/2016	05/24/2013	MD	2.5

Valerie Briggs, Director
National Highway Institute

ACCREDITED IACET PROVIDER

One Continuing Education Unit (CEU) is ten contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction and qualified instruction.

U.S. Department of Transportation Federal Highway Administration

National Highway Institute
Training Solutions for Transportation Excellence

Participant Training History
Issued by National Highway Institute

FIRST NAME: Whiting	LAST NAME: Jereme	PARTICIPANT ID :

ADDRESS
RJM Engineering
6031 University Blvd
Ellicott City, MD 21043

TELEPHONE:
202-553-5807

Session ID	Course#	Course Title	Start Date	End Date	Location	CEU
20120513	130055	Safety Inspection of In-Service Bridges Score: Pass	08/13/2012	08/24/2012	KS	6.0

Valerie Briggs, Director
National Highway Institute

ACCREDITED IACET PROVIDER

One Continuing Education Unit (CEU) is ten contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction and qualified instruction.

Association of Diving Contractors International

Cert. # 60158

Expires 08/19/2024

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

JEREME ROSS WHITING I.D. 3820

Commercial Diver Certification Card

AMERICAN TRAUMA EVENT MANAGEMENT

ATEM

CPR

AED

First Aid

This certifies that

Ross Whiting

Has successfully completed the training requirements consistent with the most current AHA ECC guidelines for:

	YES	NO		YES	NO
Adult CPR	✓		Standard First Aid	✓	
Child CPR		✓	Essential First Aid		✓
Infant CPR		✓	AED	✓	

JAN 0 4 2024 (Date Completed)

JAN 0 4 2026 (Expiration Date)

Maggie Wilkins

Authorized Instructor (print name)

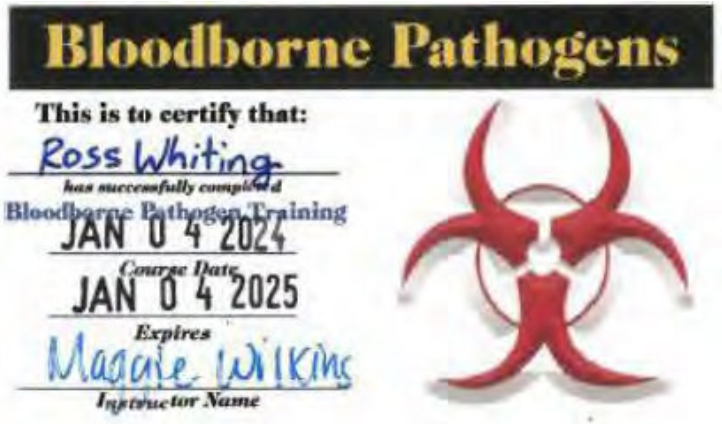
Holder's Signature

859-354-9828

Training Center Phone Number

BLUE60

Training Center Name



Bloodborne Pathogens

This is to certify that:

Ross Whiting

has successfully completed

Bloodborne Pathogen Training

JAN 0 4 2024

Course Date

JAN 0 4 2025

Expires

Maggie Wilkins

Instructor Name

OSHA Occupational Safety and Health Administration

30-561435893

This card acknowledges that the recipient has successfully completed a 30-hour Occupational Safety and Health Training Course in Construction Safety and Health

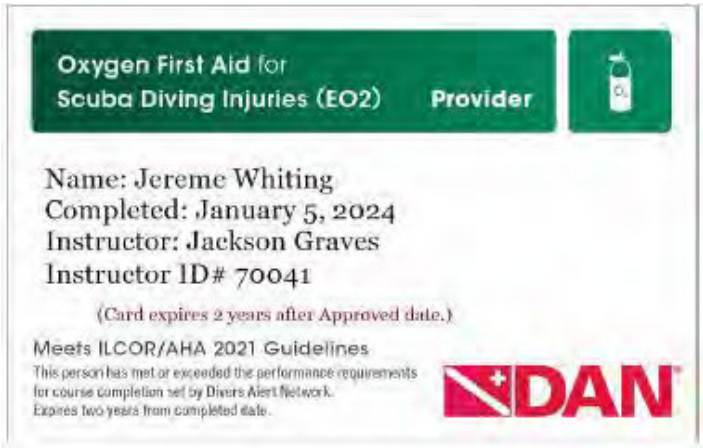
JEREME WHITING

Howard Neal

02/02/2017

(Trainer name – print or type)

(Course end date)



Oxygen First Aid for Scuba Diving Injuries (EO2) Provider

Name: Jereme Whiting
Completed: January 5, 2024
Instructor: Jackson Graves
Instructor ID# 70041

(Card expires 2 years after Approved date.)

Meets ILCOR/AHA 2021 Guidelines

This person has met or exceeded the performance requirements for course completion set by Divers Alert Network.
Expires two years from completed date.

DAN

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Jereme Ross Whiting

has participated in

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

hosted by

Wallace Montgomery Engineering

Date: May 21-24, 2013 ***Hours of Instruction:*** 25

Location: Towson, MD

/s/Terence Browne
Instructor

/s/Barbara Pomeroy
Local Coordinator

/s/ Alla Kucher
Instructor

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Ross Whiting

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Kentucky Transportation Cabinet

Date: *February 07-09, 2023* *Hours of Instruction:* 18

Location: *Frankfort, KY*

Instructor

William R. Hawkins PE
Instructor

Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Jereme Ross Whiting

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Marine Solutions, Inc.

Date: *October 04-07, 2021* *Hours of Instruction:* 24

Location: *Nicholasville, KY*

Instructor

Instructor

Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

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

Mr. Bradley Scott Holleman

License/Certificate Type - Number	Expiration Date
PLS.0005082	09/30/2024

Status: Active

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

Mr. Ross Andrew Wilson

License/Certificate Type - Number	Expiration Date
PLS.0005148	03/31/2026

Status: Active

National Highway Institute

Certificate of Training

Josh Derechin

has participated in

Safety Inspection of In-Service Bridges

hosted by

Virginia Department of Transportation

Date: January 09-20, 2006 *Hours of Instruction:* 60

Location: McLean, VA

Instructor

Local Coordinator

Instructor

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

eTraining, Inc.

Certificate of Completion

This certifies that

Josh Derechin

has received training for successfully completing

OSHA Permit-Required Confined Space Entry

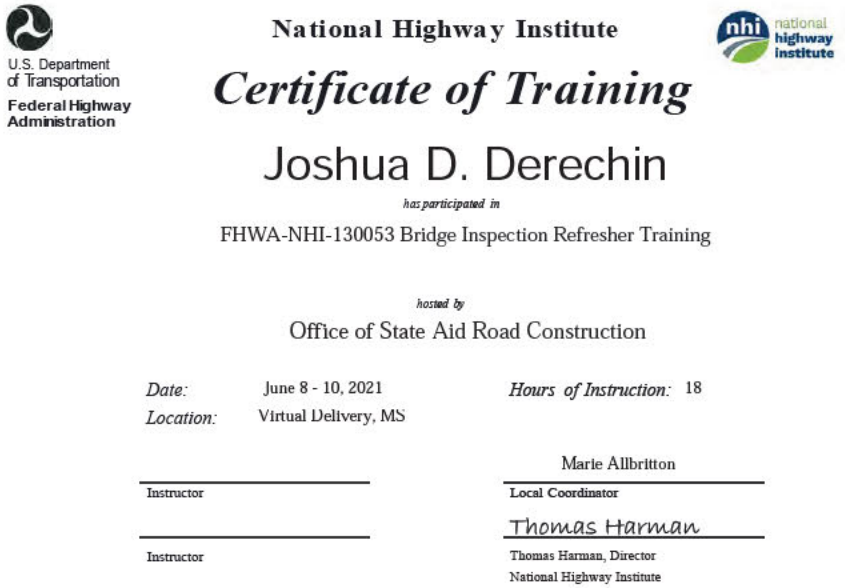
OSHA 29 CFR 1910.146 - 2 Hours

November 23, 2017 Certificate Number: 91104

www.etraintoday.com

Niall O'Malley, President

Larry A. Baylor, VP Content Development



U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Joshua D. Derechin

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Office of State Aid Road Construction

Date: June 8 - 10, 2021 *Hours of Instruction:* 18

Location: Virtual Delivery, MS

Instructor

Marie Allbritton

Local Coordinator

Instructor

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Joshua Derechin

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Office of State Aid Road Construction

Date: April 19-21, 2016 *Hours of Instruction:* 18

Location: Jackson, Mississippi

Instructor

Local Coordinator

Instructor

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Josh Derechin

has participated in

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

hosted by

West Virginia Department of Transportation

Date: December 3-6, 2019
Location: Weston, WV

Hours of Instruction: 25

Instructor

Instructor

Local Coordinator

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

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Certificate of Training

Daniel Fint

has participated in

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

hosted by

Kentucky Transportation Cabinet

Date: May 5-16, 2008
Location: Frankfort, Kentucky

Hours of Instruction: 60.0

Instructor

Instructor

Local Coordinator

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Daniel Fint

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Office of State Aid Road Construction

Date: June 8 - 10, 2021
Location: Virtual Delivery, MS

Hours of Instruction: 18

Instructor

Instructor

Marie Allbritton
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Robert B. Frye

has participated in

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

hosted by

West Virginia Department of Transportation

Date: August 22-26, 2016
Location: Charleston, WV

Hours of Instruction: 35

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

nhi national highway institute

Robert Frye

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Office of State Aid Road Construction

Date: June 8 - 10, 2021 *Hours of Instruction:* 18

Location: Virtual Delivery, MS

Instructor

Instructor

Marie Allbritton
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NHI NATIONAL HIGHWAY INSTITUTE

Albert Ho

has participated in

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

hosted by

ConnDOT

Date: *June 16-27, 2014* **Hours of Instruction:** 70

Location: Newington, CT

Instructor

Instructor

Local Coordinator

Richard J. Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NHI NATIONAL HIGHWAY INSTITUTE

Robert Frye

has participated in

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

hosted by

West Virginia Department of Transportation

Date: December 3-6, 2019 *Hours of Instruction:* 25

Location: Weston, WV

Instructor

Instructor

Local Coordinator

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

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NHI NATIONAL HIGHWAY INSTITUTE

Albert Ho

has participated in

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

hosted by

ConnDOT

Date: December 13-16, 2016 **Hours of Instruction:** 25

Location: Newington, CT

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Brian Howlett

has participated in

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

hosted by
ConnDOT

Date: June 6-17, 2011
Location: Newington, CT

Hours of Instruction: 60

William R Hardesty, P.E.
Instructor

Paul McGuinness
Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Michael Jakiel

has participated in

FHWA-NHI-130110-Tunnel Safety Inspection

hosted by
ConnDOT

Date: April 9-13, 2018
Location: Newington, CT

Hours of Instruction: 32

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

MICHAEL R. JAKIEL

has satisfactorily completed training in

SAFETY INSPECTION OF IN-SERVICE BRIDGES

conducted by

MICHAEL BAKER JR., INC.

Location: NEWINGTON, CT

Hours of instruction: 80

Date: JANUARY 23 - FEBRUARY 3, 1995

Continuing Education Units: 6

Instructor

Director, National Highway Institute

Coordinator

Federal Highway Administrator

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Michael Jakiel

has participated in

FHWA-NHI-130053A Bridge Inspection Refresher Training

hosted by
ConnDOT

Date: August 24-27, 2010
Location: Newington, CT

Hours of Instruction: 21

Instructor

Instructor

Local Coordinator

Richard J. Barnaby, Director
National Highway Institute

National Highway Institute

Certificate of Training

U.S. Department Of Transportation
Federal Highway Administration

NATIONAL HIGHWAY INSTITUTE

MICHAEL JAKIEL

has participated in

NHI COURSE NO. 130078
FRACTURE CRITICAL INSPECTION TECHNIQUES FOR STEEL BRIDGES

hosted by

MICHAEL BAKER JR., INC.

Date: AUGUST 13, 2007 **Hours of Instruction:** 21

Location: BEAVER PENNSYLVANIA

Instructor

Local Coordinator

Instructor

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

Michael Baker Jr., Inc.

Baker

Awards This

Certificate of Completion

To

Michael Jakiel

At

Michael Baker Jr., Inc.

Confined Space Entry Training

Instructor:
James D. Taylor, CSP
Michael Baker Jr., Inc.

Date: September 5, 2013

National Highway Institute

Certificate of Training

U.S. Department Of Transportation
Federal Highway Administration

NATIONAL HIGHWAY INSTITUTE

Michael R. Jakiel

has participated in

FHWA-NHI-130053A Bridge Inspection Refresher (3.5-day)

hosted by

ConnDOT

Date: October 7-10, 2014 **Hours of Instruction:** 21

Location: Newington, CT

Instructor

Local Coordinator

Instructor

Richard J. Barnaby, Director
National Highway Institute

Michael Baker Jr., Inc.

Baker

Awards This

Certificate of Completion

To

Michael Jakiel

At

Michael Baker Jr., Inc.

Fall Protection Training

Instructor:
James D. Taylor, CSP
Michael Baker Jr., Inc.

Date: September 6, 2013

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Michael Jakiel

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Connecticut Department of Transportation

Date: Oct. 15-17, 2019 *Hours of Instruction:* 18

Location: Newington, CT

Instructor

Instructor

Local Coordinator

Michael Davies, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

MICHAEL JAKIEL

has participated in

NHI COURSE NO. 130078
FRACTURE CRITICAL INSPECTION TECHNIQUES FOR STEEL BRIDGES

hosted by

MICHAEL BAKER JR., INC.

Date: AUGUST 13, 2007 ***Hours of Instruction:*** 21

Location: BEAVER, PENNSYLVANIA

Instructor

Instructor PE

Local Coordinator

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

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

MICHAEL JAKIEL

has participated in

INSPECTION & MAINTENANCE OF ANCILLARY HIGHWAY STRUCTURES

hosted by

ConnDOT

Location: NEWINGTON, CT ***Hours of instruction:*** 14

Date: FEBRUARY 14-15, 2007

Instructor

Director, National Highway Institute
Federal Highway Administration

Coordinator

Director, Office of Professional Development
Federal Highway Administration

pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Joseph M. Brach

On this date, 5/23/2024, has successfully completed

Bridge Scour Evaluation

Sponsored by the Highway Administration Deputate

Presented by: Mike Pichura, Michael Baker International
Grade: Instructor
Continuing Education Credits: 16 PDHs

Daryl R. St. Clair
Highway Administration Deputate

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

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

Verify this certification at:

SPRAT Certification Verification System

SPRAT

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

SPRAT

Rope Access Certification
Level 3

Joseph M. Brach

SPRAT Certification # 130723
Date of Birth: 16 JAN 1988

Certification Date: 20 JAN 2023
Expiration Date: 24 JAN 2026

CERTIFICATE OF COMPLETION

This is to certify that

Joe Brach

Has pursued studies and completed the requirements of

Competent Tower Climber/Rescuer — Online Classroom

VERTICAL RESCUE SOLUTIONS

Issued: 2021 02 05 Expires: 2026 02 15 Certificate ID: GybniScwi

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Philip Quillin

has participated in

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

hosted by

Wallace, Montgomery

Date: ***February 06-17, 2012***
Location: ***Annapolis, Maryland***

Hours of Instruction: ***60 Hours***

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Rocky Armendariz

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher

hosted by

Texas Department of Transportation

Date: *March 8-10, 2016*
Location: *El Paso, Texas*

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Certifies that Jesus Armendariz

has satisfactorily completed 16 hours of training in

Inspection of Fracture Critical Bridge Members

conducted by

Byrd, Tallamy, MacDonald & Lewis

September 21-22, 1987 **Austin, Texas**

Date Location

Federal Highway Administrator Instructor

Director, National Highway Institute Coordinator

U.S. Department Of Transportation
Federal Highway Administration

NHI

National Highway Institute
Certificate of Training

SHAWN WATROUS

has participated in

SAFETY INSPECTION OF IN-SERVICE BRIDGES

hosted by

FHWA

Location: NEWINGTON, CT ***Hours of instruction:*** 74

Date: APRIL 12-23, 2004

Instructor Coordinator

Director, National Highway Institute
Federal Highway Administration

Director, Office of Professional Development
Federal Highway Administration

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Shawn Watrous

has Successfully Completed

FHWA-NHI-130125 Tunnel Safety Inspection Refresher

hosted by

Hardesty & Hanover

Date: *May 16-18, 2023*

Location: *New York, NY*

Hours of Instruction: 15

Instructor

Instructor

Local Coordinator

Stacey J. Caston

Stacey J. Caston, Acting Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

NHI
NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Shawn Watrous

has participated in

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

hosted by

ConnDOT

Date: Dec. 11-14, 2012 ***Hours of Instruction:*** *21*

Location: Newington, CT

Instructor

Instructor

Local Coordinator

Richard J. Barnaby, Director
National Highway Institute

National Highway Institute

Certificate of Training

U.S. Department Of Transportation
Federal Highway Administration

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Shawn Watrous

has participated in

FHWA-NHI-130092 Fundamental's of LRFR and Applications of LRFR for Bridge Superstructures

hosted by
ConnDOT

Date: December 13-16, 2010
Location: Newington, CT

Hours of Instruction: 24

Instructor

Instructor

Local Coordinator

Richard J. Barnaby, Director
National Highway Institute

National Highway Institute

Certificate of Training

U.S. Department Of Transportation
Federal Highway Administration

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Shawn Watrous

has participated in

FHWA-NHI-130110-Tunnel Safety Inpsection

hosted by
ConnDOT

Date: April 9-13, 2018
Location: Newington, CT

Hours of Instruction: 32

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

National Highway Institute

Certificate of Training

U.S. Department of Transportation
Federal Highway Administration

Shawn Watrous

has participated in

FHWA-NHI-130053A Bridge Inspection Refresher Training

hosted by
Connecticut Department of Transportation

Date: August 11-14, 2020
Location: Newington, CT

Hours of Instruction: 22

Instructor

Instructor

Local Coordinator

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

National Highway Institute

Certificate of Training

U.S. Department Of Transportation
Federal Highway Administration

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Shawn Watrous

has participated in

FHWA-NHI-130087-Inspection and Maintenance of Ancillary Highway Structures

hosted by
ConnDOT

Date: April 5-6, 2016
Location: Newington, CT

Hours of Instruction: 12

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Adam Wriston

has participated in

FHWA-NHI-130078 Fracture Critical Inspection of Steel Bridges

hosted by

Whitman, Requardt & Associates, LLP

Date: May 26-29, 2015
Location: Richmond, VA

Hours of Instruction: 25

Instructor

Local Coordinator

Instructor

Valerie Briggs, Director
National Highway Institute

NHI
NATIONAL HIGHWAY INSTITUTE

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NHI
NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Adam Wriston, P.E.
has participated in

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

hosted by

The American Council of Engineering Companies of WV

Date: May 14 – 25, 2012
Location: Charleston, WV

Hours of Instruction: 67

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

Certificate of Completion

360training.com

This Certifies That

Adam Wriston

is awarded this certificate for

Confined Space Entry Training

Complying with OSHA Standard 29 CFR 1910.146, Entrant, Attendant, Supervisor

Credit Hours: 8
Completion Date: 02/10/2016

Marie Athey, OSHA Trainer

360training.com ♦ 13801 Burnet Rd., Suite 100 ♦ Austin, TX 78727 ♦ 888-360-TRNG ♦ www.360training.com

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NHI
NATIONAL HIGHWAY INSTITUTE

Adam Wriston, P.E.
has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Kansas Department of Transportation

Date: May 2-4, 2017
Location: Topeka, Kansas

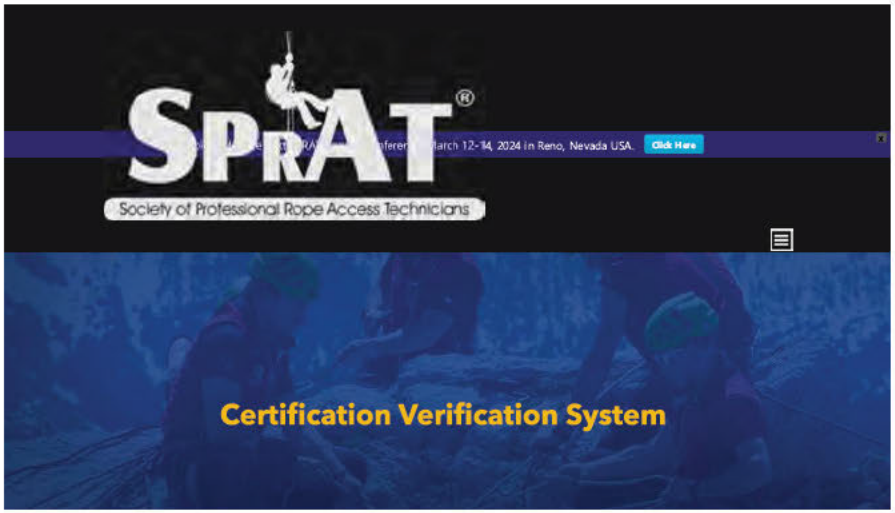
Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute



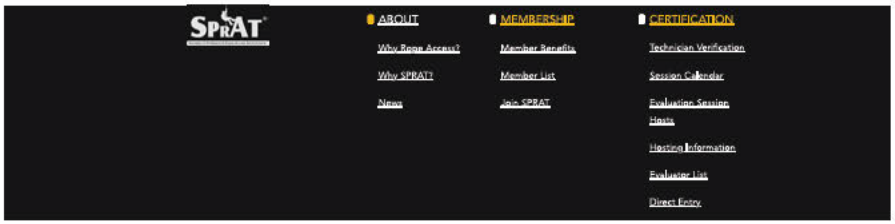
SPRAT Certification Verification System

SPRAT Certification Verification

SPRAT Number: 140363
Reset Form | Search for SPRAT Tech

Search Result(s):

First Name: A**********
Last Name: W**********
SPRAT Number: 140363
Rope Access Certification: Level 3
Rope Access Expiration: January 24th, 2026
Work-at-Height Certification: _None_
Work-at-Height Expiration: _None_



1/2

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Don M. Harris

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Kansas Department of Transportation

Date: *April 11-13, 2023*
Location: *Topeka, KS*
Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

National Highway Institute

Certificate of Training

Don M. Harris

has satisfactorily completed training in

Safety Inspection of In-Service Bridges

Hosted by

Texas Department of Transportation

Location: Houston, TX
Date: 05/04/2009

Hours of Instruction: 80.0
Continuing Education Units: 6.0

Instructor

Director,
National Highway Institute

Ray L. Bell, PHR, Director
Training, Quality, and Development Section

Director, Office of Professional Development
Federal Highway Administration

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Don M. Harris

has participated in

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

hosted by

Texas DOT

Date: *June 9-12, 2009*
Location: *Houston, TX*

Hours of Instruction: 21

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Jeffrey McRae

has Successfully Completed

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

hosted by

Office of State Aid Road Construction

Date: *February 07-10, 2023*
Location: *Ridgeland, MS*

Hours of Instruction: 25

Instructor

Instructor

Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Jeffrey McRae

has participated in

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

hosted by

Office of State Aid Road Construction

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

Hours of Instruction: 34

Instructor

Instructor

Local Coordinator

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

Prime Consultant Name: **Michael Baker International, Inc.**

U.S. Department of Transportation
Federal Highway Administration

national highway institute

CERTIFICATE OF TRAINING

Jeffrey McRae

has participated in

NHI Course No. FHWA-NHI-130101A

Prerequisite Assessment for Safety Inspection of In-Service Bridges - WEB-BASED

Hosted by: **National Highway Institute**

Location: *Web-Based Course* ***Hours of Instruction:*** *1 hours*

Date: *1/6/2023*

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

ELLIS L. McMAHEN

has participated in

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

hosted by

Office of State Aid Road Construction

Date: *July 14-25, 2014* ***Hours of Instruction:*** 67

Location: *Jackson, Mississippi*

Instructor

Instructor

Marie Allerton
Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Luke McMahen

has participated in

FHWA - NHI Course No. 130078
Fracture Critical Inspection Techniques for Steel Bridges (3.5 Days)

hosted by

LA DOTD/LTRC

Date: **August 11-14, 2015** ***Hours of Instruction:*** **25**

Location: **Baton Rouge, LA**

Instructor

Instructor

Allison H. Landry
Local Coordinator

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Shalin Sheth

has participated in

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

hosted by

Office of State Aid Road Construction

Date: *August 21-25, 2023* *Hours of Instruction:* 34

Location: *Jackson, MS*

Instructor

Instructor

Marie V Allerton
Local Coordinator

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Mike A. Cresap

has Successfully Completed

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

hosted by

Office State Aid Road Construction

Date: June 07-10, 2022
Location: Ridgeland, MS

Hours of Instruction: 25

Instructor

Instructor

Marie Allbritton
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Joseph M. Brach

has participated in

FHWA-NHI-130125 Tunnel Safety Inspection Refresher

hosted by

WSP USA, Inc.

Date: February 21-23, 2024
Location: Goshen, NY

Hours of Instruction: 15

Instructor

Instructor

Local Coordinator

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Michael Cresap

has participated in

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

hosted by

Office of State Aid Road Construction

Date: August 23-27, 2021
Location: Ridgeland, MS

Hours of Instruction: 34

Instructor

Instructor

Marie Allbritton
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Joseph Brach

has successfully completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

PKB Engineering Corporation

Date: July 16-18, 2024
Location: Secaucus, NJ

Hours of Instruction: 22

Mark Nyerges Digitally signed by Mark Nyerges Date: 2024.07.23 11:42:22 -04'00'
Instructor

David Hoyne Digitally signed by David Hoyne Date: 2024.07.23 12:31:55 -04'00'
Instructor

John Paul
Local Coordinator

Stacey Caston
Stacey Caston, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Russell Childs

has participated in

FHWA-NHI-130053A Bridge Inspection Refresher Training

hosted by

Mississippi Department of Transportation

Date: September 14-17, 2020
Location: Virtual Delivery, MS

Hours of Instruction: 22

Instructor

Instructor

Richard Withers
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Russell Childs

has participated in

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

hosted by

Office of State Aid Road Construction

Date: November 9-20, 2009
Location: Hattiesburg, Mississippi

Hours of Instruction: 60

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Russell Childs

has Successfully Completed

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

hosted by

Office of State Aid Road Construction

Date: February 07-10, 2023
Location: Ridgeland, MS

Hours of Instruction: 25

Instructor

Instructor

Local Coordinator

Thomas Harman, Director
National Highway Institute

ASPEN AERIALS
A TIME MANUFACTURING COMPANY

CERTIFICATE OF TRAINING

Presented To

Russell Childs

representing

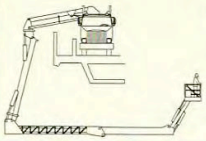
Mississippi DOT

for completing all operator training requirements of ANSI A92.22 and A92.24 standards for a Type 2, Group B Underbridge MEWPs.

This certificate of completion is valid for 5 years from date of issue.

Familiarization training was provided using

Aspen Aerials A40, Serial Number 10349



Product Support Representative
Justin Laskowski
Apr 10th, 2020

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

national highway institute

Certificate of Training

JACKSON HARTLEY

has Successfully Completed

FHWA-NHI-130055

Safety Inspection of In-Service Bridges

hosted by

LA DOTD/LTRC

Date: May 15-26, 2023
Location: Baton Rouge, LA

Hours of Instruction: 67

Instructor

Instructor

Allison H. Landry
Local Coordinator

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

highway institute

Certificate of Training

Ryan Horn

has Successfully Completed

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

hosted by

SDR Engineering Consultants

Date: January 10-21, 2022
Location: Tallahassee, FL

Hours of Instruction: 67

Instructor

Instructor

Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

Association of Diving Contractors International

Cert. # 61811

Expires 10/05/2025

SURFACE-SUPPLIED AIR DIVING SUPERVISOR

BRAD KOCH I.D. 9272

Commercial Diver Certification Card

Divers Alert Network

Basic Life Support

Certificate of Training

Brad Koch

has successfully completed

First Aid/CPR/AED (DANDAN-203)

Accepted by the United States Coast Guard to meet the training requirements of 46 CFR 11.201 (i)(1)(ii) and 46 CFR 11.201 (i)(2)(iii) for the merchant mariner license

Date February 19, 2024

Location Denver Divers

Wendelinus Benjamin
ID# 14463

Instructor

Vice President of Safety Services

Oxygen First Aid for Scuba Diving Injuries (EO2) Provider

Name: Brad Koch
Completed: February 19, 2024
Instructor: Wendelinus Benjamin
Instructor ID# 14463

Meets ILCOR/AHA 2021 Guidelines

This person has met or exceeded the performance requirements for course completion set by Divers Alert Network.
Expires two years from completed date.

DAN

THE FACULTY AND STAFF OF

MINNESOTA COMMERCIAL DIVER TRAINING CENTER

HEREBY ACKNOWLEDGES THAT

BRAD A. KOCH

HAS SATISFACTORILY COMPLETED THE REQUIREMENTS FOR THE

ADCI ENTRY LEVEL TENDER/DIVER
&
DCBC INTERNATIONAL RESTRICTED SURFACE SUPPLIED DIVER CERTIFICATIONS

AND IS HEREBY ADMITTED THE RIGHTS AND PRIVILEGES BELONGING TO THAT TRAINING AND ACHIEVEMENT.

MAY 30TH 2015

SEAL

DIRECTOR OF EDUCATION

EXECUTIVE DIRECTOR

PRESIDENT

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NHI NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Brad Koch

has participated in

FHWA-NHI-130087 Inspection and Maintenance of Ancillary Highway Structures

hosted by

Collins Engineers, Inc.

Date: *November 14-15, 2019* *Hours of Instruction:* 12

Location: *Denver, CO*

Instructor

Instructor

Local Coordinator

Michael Davies, Director
National Highway Institute

Redpoint Medical
128 Southland Drive, Suite 110
Lexington, KY 40503 - 1953
Tel: 859 223-1963 x
Fax: 859 223-1964 x

MARINE SOLUTIONS
MEDICAL SUITABILITY CERTIFICATE
FOR DIVING PHYSICALS

Applicant Name: KOCH, Brad

Date of Exam: 03-26-2024
Exam performed by: Gregory Snider, MD

Physician Recommendation:

Notes:

Based upon my evaluation of the exam, KOCH, Brad is:

APPROVED AND FIT TO DIVE

Gregory Snider, MD - Certifying Physician
Exam Date: 03-26-2024

This Certificate Expires: 03-26-2025

Notes:

1. Diving physicals performed in accordance with the protocol defined by the Association of Diving Contractors International, ADCI.
2. Dr. Gregory Snider certified as Medical Examiner of Divers by the Undersea & Hyperbaric Medical Society


VectorSolutions

Training Certificate of Achievement

Hereby Acknowledges that

Brad Koch

has completed the in-service training on April 1 2024 for

Bloodborne Pathogens

Congratulations on your completion of this 0.43 hour online course.

Michael Schreiner, VP of Content

As an IACET Accredited Provider, Vector Solutions offers CEUs for its programs that qualify under the ANSI/IACET Standard.

ACCREDITED IACET PROVIDER

Vector Solutions | Two Urban Centre | 4890 West Kennedy Boulevard | Suite 300, Tampa, FL 33609 | 866.546.1212


OSHA
Occupational Safety and Health Administration

36-602042471

This card acknowledges that the recipient has successfully completed:

30-hour Construction Safety and Health

This card issued to:

Brad A Koch

David E Couch Jr — Trainer Name

2/29/2020 — Date Issued

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Brad Koch

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Collins Engineers, Inc.

Date: *December 10-13, 2018* ***Hours of Instruction:*** *24*

Location: *Newport News, VA*

Instructor

Local Coordinator

Instructor

Valerie Briggs, Director
National Highway Institute

SPRAT

ROPE ACCESS TECHNICIAN

LEVEL: I

Brad Alan Koch

Denver, CO
USA

SPRAT Cert. # 2200326
Certification Date: 18 FEB 2022
Renewal Date: 18 FEB 2025

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Brad Koch

has participated in

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

hosted by

Minnesota Department of Transportation

Date: *October 18-29, 2021* *Hours of Instruction:* 67

Location: *Shoreview, MN*

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

Brad Koch

has participated in

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

hosted by

Collins Engineers, Inc.

Date: *February 22, 2022* *Hours of Instruction:* 6

Location: *St. Paul, MN*

Instructor

Instructor

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Anderson Potter

has participated in

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

hosted by

Utah Department of Transportation

Date: January 23-26, 2018 **Hours of Instruction:** 25
Location: Salt Lake City, UT

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Anderson Potter

has participated in

FHWA-NHI-130087 Inspection and Maintenance of Ancillary Highway Structures

hosted by

Collins Engineers, Inc.

Date: February 22-23, 2019 Hours of Instruction: 12
Location: Las Vegas, NV

Instructor

Instructor

Local Coordinator

Michael Davies, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Andy Potter

has participated in

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

hosted by

Utah Department of Transportation

Date: April 16, 2019 Hours of Instruction: 6
Location: Salt Lake City, UT

Instructor

Instructor

Local Coordinator

Michael Davies, Director
National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Anderson Potter

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Utah Department of Transportation

Date: Nov.30 – Dec. 2, 2021 Hours of Instruction: 18
Location: Salt Lake City, UT

Instructor

Instructor

Local Coordinator

Thomas Harman, Director
National Highway Institute

AMERICAN TRAUMA EVENT MANAGEMENT

This verifies that

Anderson Potter

Has successfully completed the training requirements consistent with the most current AHA ECC guidelines for:

CPR

AED

First Aid

	YES	NO		YES	NO
Adult CPR	☑	☐	Standard First Aid	☑	☐
Child CPR	☐	☑	Essential First Aid	☐	☑
Infant CPR	☐	☑	AED	☐	☑

FEB 15 2024 — *Date Completed*

FEB 15 2026 — *Expiration Date*

Maggie Wilkins

Authorized Instructor (print name)

Holder's Signature

859-354-9828 — *Training Center Phone Number*

BGHS/Blue60 — *Training Center Name*

Successful completion verifies that the card holder has met the requirements for the cognitive knowledge and skill objectives of the curriculum as based on the recommendations of the ECC, AHA and ILCOR 2020 Guidelines

SPRAT

Rope Access Certification

Level 1

Anderson Potter

SPRAT Certification # 190954

Date of Birth: 30 JUN 1989

Certification Date: 4 FEB 2023

Expiration Date: 4 FEB 2026

Bloodborne Pathogens

This is to certify that:

Anderson Potter

has successfully completed

Bloodborne Pathogen Training

FEB 15 2024

Course Date

FEB 15 2025

Expires

Maggie Wilkins

Instructor Name

CERTIFICATE

of ACHIEVEMENT

HEREBY ACKNOWLEDGES THAT

Anderson Kiser Potter

has completed the in-service training for

OSHA 30 Hour Construction Program CS_OSHA30_NFb

Congratulations on your completion of this 0.00 hour online course.

11/7/2022

Course Completion Date

ACCREDITED IACET PROVIDER

VectorSolutions

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

Verify this certification at:

SPRAT Certification Verification System

SPRAT

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

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE

Anderson Potter

has participated in

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

hosted by

Texas Department of Transportation

Date: *June 25 –29, 2018*

Location: *Austin, TX*

Hours of Instruction: *34*

H C Rogers PE.
Instructor

Local Coordinator

P.E.
Instructor

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

Prime Consultant Name: **Michael Baker International, Inc.**

SECTION 21

QA/QC PLAN

21. QA/QC Plan

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

Per page 5 of the advertisement, a QA/QC plan is not required for this proposal.

SECTION 22

SUB-CONSULTANT INFORMATION

22. Sub-consultant information:

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

Firm Name (Name must match as registered with Louisiana's Secretary of State)	*Address*	*Point of Contact and email address*	*Phone Number*
Gresham Smith	10000 Perkins Rowe, Suite 280, Baton Rouge, LA 70810	Herbert "Bert" Moore, II, PE, PLS, PTOE bert.moore@greshamsmith.com	225-757-5849
KTA-Tator, Inc.	145 Enterprise Drive, Pittsburgh, PA 15275	Robert Lanterman, rlanterman@kta.com	412-722-0745
Infinity Engineering Consultants, LLC	4001 Division Street, Metairie, LA 70002	Raoul V. Chauvin, III, PE rchauvin@infinityec.com	504-304-0548
Forte & Tablada, Inc.	9107 Interline Avenue Baton Rouge, LA 70809	Russell J. "Joey" Coco, Jr., P.E. jcoco@forteandtablada.com	225-927-9321
Vectura Consulting Services, LLC	4467 Bluebonnet Blvd., Suite A Baton Rouge, LA 70809-9639	Sheelagh Brin Ferlito, PE, PTOE bferlito@vecturacs.com	225-223-6685
Marine Solutions, Inc. of Kentucky	225 Industry Parkway Nicholasville, KY 40356	Sean P. Chapman, PE schapman@msimarinesolutions.com	859-260-1055

SECTION 23

LOCATION

23. Location:

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

Michael Baker
INTERNATIONAL

We Make a Difference

MICHAEL BAKER INTERNATIONAL, INC.
2600 CitiPlace Drive · Suite 450
Baton Rouge, LA 70808