DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

IDIQ Contracts for

BRIDGE PRESERVATION STATEWIDE

CONTRACT NOS. 4400023921, 4400023922, 4400023923, 4400024185, 4400024186, 4400024187, 4400024188, and 4400024189

May 10, 2022

HNTB

HNTB Corporation
THE HNTB COMPANIES
Infrastructure Solutions

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May 10, 2022

Louisiana Department of Transportation and Development
Consultant Contract Services
1201 Capitol Access Road, Room 405-E
Baton Rouge, LA 70802

RE: CONTRACT NOS. 4400023921, 4400023922, 4400023923, 4400024185, 4400024186, 4400024187, 4400024188, AND 4400024189 – IDIQ CONTRACTS FOR BRIDGE PRESERVATION

Dear members of the selection committee,

The HNTB Team brings the Louisiana Department of Transportation and Development (LaDOTD) the best of all worlds for this critical statewide bridge preservation retainer contract. We bring extensive local leadership and expertise. We bring a team of world-class designers with experience on a vast array of bridge types and innovative design concepts at the forefront of the transportation design industry. We bring established relationships, and an unparalleled knowledge of what the LaDOTD Bridge Design Section expects from its consultant partners. And finally, we bring a promise – a promise that we will deliver for you every time on budget, on or ahead of schedule and will exceed your expectations of quality work.

HNTB's experienced staff are well-suited to continue assisting the LaDOTD bridge staff with these IDIQ Contracts for Bridge Preservation. For almost **60 years**, HNTB has partnered with LaDOTD on many of your most complex structural projects, and we look forward to continuing our working relationship with you. We understand the evolving nature of LaDOTD's bridge preservation program, particularly in light of upcoming federal revenue increases to renew the state's bridge infrastructure. We appreciate the condition of the state's aging bridges and know firsthand the bridge program's critical role in the movement of people and goods throughout the state.

Since 2011, **HNTB has successfully undertaken 63 bridge-related task orders through your retainer contracts**, so we fully understand what is required to successfully deliver quality bridge projects. Having a deep knowledge of LaDOTD's contracting procedures and the Bridge Section's Bridge Design and Evaluation Manual (BDEM), HNTB will not only be able to contract more efficiently, but also be able to complete projects with less guidance and need for comment. This understanding of policy and procedure can save the state valuable time and resources. Over the past 11 years, we have worked with over 15 different bridge project managers. During this time, we have had the opportunity to learn what each individual values in their consultant partner. By building these trusted relationships, which we look forward to strengthening, we can more openly communicate with our bridge project managers which will help resolve issues before they elevate to a critical nature.

Dusty Bastion, PE, will serve as project manager for this retainer contract. Mr. Bastion, who is located in our Baton Rouge office, is prepared to lead the HNTB team to plan, coordinate and execute the assignments within this retainer contract. As a former LaDOTD bridge design section engineer, Mr. Bastion brings intimate knowledge of your organization, your people, and your expectations.

We have assembled a team offering unequaled breadth of experience and depth of resources. This combination ensures our ability to respond to the volume and schedule for any assigned work. Each subconsultant has allowed us to submit their 24-102 as part of our team. Our DBE partner, Vectura Consulting Services, LLC will exceed the DBE/WBE goal of 3%. Our team includes the following highly-skilled and experienced firms:

- Ardaman & Associates, Inc.
- Civix
- ELOS Environmental, LLC
- Forte & Tablada, Inc.
- KGC Environmental Services, Inc.
- Moffatt & Nichol, Inc.
- NTB Associates, Inc.
- Vectura Consulting Services, LLC
- Wiss, Janney, Elstner Associates

At HNTB, we take our work seriously and strive to deliver our signature "4for4" – quality work, on time, on budget, and to your complete satisfaction. We promise to deliver no less and are pleased to present our qualifications for this contract.

Respectfully submitted,
HNTB Corporation

Bryan Jones
Vice President
Office Leader

Dusty Bastion, PE
Project Manager
Associate Vice President

Table of Contents

Section 1-11

DOTD FORM: 24-102

IDIQ CONTRACTS FOR BRIDGE PRESERVATION STATEWIDE

(Revised March 1, 2022)

Prime consultant should fill in the DOTD Form 24-102 provided without altering the text provided in the form; however, the instruction and/or guidance for Sections 12 through 24 can be removed but do not remove Section title and number.

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

1. Contract title as shown in the advertisement	IDIQ Contracts for Bridge Preservation, Statewide
2. Contract number(s) as shown in the advertisement	4400023921, 4400023922, 4400023923, 4400024185, 4400024186, 4400024187, 4400024188, 4400024189
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name (as registered with the Louisiana Secretary of State where such registration is required by law)	HNTB Corporation
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0001775
6. Prime consultant mailing address	10000 Perkins Rowe, Suite 640, Baton Rouge, LA 70810
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	10000 Perkins Rowe, Suite 640, Baton Rouge, LA 70810
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Bryan Jones, Gulf Coast District Office Leader Phone: (225) 368-2803 | Email: bryanjones@hntb.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Bryan Jones, Gulf Coast District Office Leader Phone: (225) 368-2803 | Email: bryanjones@hntb.com

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.	Signature (shall be the same person as #9):  _____ Date: May 6, 2022
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 — 5% Total: 5%

Section 12:

Past Performance Evaluation Discipline Table

12. Past Performance Evaluation Discipline Table

Evaluation Discipline(s)	% of Overall Contract	HNTB Corporation (Prime)	Ardaman & Associates, Inc.	Civix	ELOS Environmental, LLC	Forte and Tablada, Inc.	KGC Environmental Services, Inc.	Moffatt & Nicol, Inc.	NTB Associates, Inc.	Vectura Consulting Services, LLC (DBE)	Wiss, Janney, Elstner Associates, Inc.	Each Discipline must total to 100%
Bridge	78%	85%	0%	0%	0%	10%	1%	2%	0%	0%	2%	100%
Geotechnical	5%	25%	75%	0%	0%	0%	0%	0%	0%	0%	0%	100%
Road	5%	25%	0%	0%	0%	75%	0%	0%	0%	0%	0%	100%
Traffic	5%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	100%
Survey	5%	0%	0%	10%	0%	65%	0%	0%	25%	0%	0%	100%
Other	2%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.												
Percent of Contract	100%	68.80%	3.75%	0.50%	2.00%	14.80%	0.78%	1.56%	1.25%	5.00%	1.56%	

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)
HNTB Corporation (Prime)	Accountant	2	15
	CADD Technician	2	24
	Clerical	2	16
	Engineer	11	11
	Engineer Intern	4	45
	Engineer-Other	3	67
	Environmental Manager	1	3
	Planner	1	12
	Principal	1	5
	Senior Technician	4	16
	Supervisor Engineer	11	11
	Supervisor-Other	8	71
Ardaman & Associates, Inc.	Administrative	1	3
	Clerical	1	1
	Engineer	1	2
	Engineer Intern	3	3
	Principal	2	2
	Senior Technician	3	6
	Supervisor - Engineering	3	3
	Supervisor - Other	2	2
	Technician	6	14
Civix	Abstractor	3	3

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)
ELOS Environmental, LLC	Biologist/Wetlands	2	10
	Environmental Professional	3	11
	Environmental Manager	1	2
	GIS Analyst	2	6
Forte and Tablada, Inc.	Administrative	0	3
	CADD Technician	4	8
	Clerical	0	4
	Engineer	2	4
	Inspector	0	3
	Instrument Man	1	1
	Party Chief	2	6
	Engineer Intern	0	9
	Principal	1	3
	Rodman	1	11
	Senior Technician	2	3
	Supervisor Engineer	1	4
	Supervisor Other	0	2
	Surveyor	2	5
KGC Environmental Services, Inc.	Other (NACE Level 3 Coatings Inspector)	1	3
	Principal	1	1

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)
Moffatt & Nicol, Inc.	Accountant	1	10
	CADD Technician	1	75
	Engineer	4	25
	Inspector - Bridge	12	50
	Supervisor - Engineer	2	8
	Technician	5	12
NTB Associates, Inc.	Principal	1	1
	Engineer	0	1
	Surveyor	3	6
	Supervisor Other	1	1
	Senior Technician	1	1
	CADD Technician	2	3
	Technician	2	2
	CADD Drafter	2	4
	Party-Chief	9	17
Vectura Consulting Services, LLC	Supervisor	2	2
	Engineer	3	5

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)
Wiss, Janney, Elstner Associates, Inc.	CADD Technician	1	4
	Clerical	2	7
	Engineer	0	3
	Engineer Intern	2	28
	Engineering - Aide	0	1
	Engineer - Other	2	28
	Geologist	0	2
	Principal	4	45
	Professional	4	19
	Senior Technician	1	58
	Supervisor - Architect	0	1
	Supervisor - Engineer	1	13
	Supervisor - Other	3	113
	Technician	1	7

Section 14:
Organizational Chart

PROJECT MANAGER

PROJECT MANAGER
- Dusty Bastion, PE **(MPR 2 & 3)**

CONTRACT MANAGEMENT
- Bryan Jones

PRINCIPAL-IN-CHARGE
- David Flanders, PE **(MPR 1)**

QC/QA MANAGERS
- Hans Hutton, PE, SE
- Steven Hague, PE, SE

TASK ORDER MANAGERS
- Josh Porter, PE **(MPR 4)**
- Ben Goodner, PE

BRIDGE ENGINEERING SERVICES

FIXED DESIGN/CONSTRUCTION ENGINEERING SUPPORT
- John Bernard, PE **(MPR 3)**
- Dusty Bastion, PE **(MPR 2 & 3)**
- Ben Goodner, PE
- Josh Porter, PE **(MPR 4)**
- Marc Hoffmann, PE
- Nicholas Hart, PE
- Patrick Duffy, PE
- Joey Coco Jr., PE
- Joffrey Easley, PE **(MPR 4)**

MOVABLE DESIGN/CONSTRUCTION ENGINEERING SUPPORT
Structural
- Christian Brown, PE **(MPR 7)**
- Manab Medhi, PE, SE

Mechanical
- Dan Appelbaum, PE **(MPR 5)**
- John Williams, PE **(MPR 5)**

Electrical
- Paul Hunter, PE **(MPR 6)**
- Gareth Rees, PE **(MPR 6)**

BRIDGE ARCHITECTURE AND AESTHETICS
- Jesse Miguel, AIA, RA, NCARB, ENV SP

ACCELERATED BRIDGE CONSTRUCTION
- Dusty Bastion, PE **(MPR 2 & 3)**
- John Bernard, PE **(MPR 3)**
- Josh Porter, PE **(MPR 4)**
- Travis Konda, PE, SE, CCM

BRIDGE PROTECTION SYSTEMS
- Christian Brown, PE **(MPR 7)**

AS-DESIGNED, AS-BUILT & CONDITION RATINGS
- Josh Porter, PE **(MPR 4)**
- John Bernard, PE **(MPR 3)**
- Marc Hoffmann, PE
- Patrick Duffy, PE
- Travis Honore, EI
- Joffery Easley, PE **(MPR 4)**

BRIDGE/STRUCTURAL INSPECTION & EVALUATION OF EXISTING BRIDGES
- Patrick Roth, PE
- Josh Porter, PE **(MPR 4)**
- Dusty Bastion, PE **(MPR 2 & 3)**
- Ben Goodner, PE
- Nicholas Hart, PE
- Marc Hoffmann, PE

UNDERWATER BRIDGE INSPECTION
- Chace Hulon, PE, ADCI
- Steven Armstrong, EI
- Jeffrey Gazarek, ADCI
- Joshua Martinez, PE, ADCI
- Charles Balzarini, PE
- Matthew Balzarini, PE

DESIGN PEER REVIEW
- Steven Hague, PE, SE
- Hans Hutton, PE, SE

ROADWAY LIGHTING
- Paul Hunter, PE **(MPR 6)**

SAMPLING, INSTRUMENT, NON-DESTRUCTIVE TESTING

BRIDGE INSTRUMENTATION NON-DESTRUCTIVE TESTING
- Jonathan McGormley, PE
- Steven Lauer, SE
- Mohamhed ElBatanouny, PhD, PE, SE
- Curtis Schroeder, PhD, PE, SE
- Leonard Phelps

PAINTING/COATING, TESTING, SAMPLING
- Kevin Guth, CIH, PMP
- Justin Beitzel, PMP
- Chris Price

ADVANCED MEASUREMENTS/ SCANNING
- Brent Campbell

GEOTECHNICAL SERVICES

GEOTECHNICAL ENGINEERING
- Brian Powell, PE **(MPR 9)**
- Jared Sommers, PE
- Brad Wilder, PE
- Albert Ayenu-Prah, PhD, PE
- Robert Jewell, PE

FIELD INVESTIGATIONS/LAB TESTING
- Jim Porter
- Megan Bourgeois, PE **(MPR 9)**
- Chandler Willis
- Jarmon King, EI

ROAD DESIGN & TRAFFIC SERVICES

ROADWAY DESIGN
- Kate Prejean, PE **(MPR 8)**
- Randal Bonura, PE
- Allison Shilling, PE **(MPR 8)**

HYDRAULIC ANALYSIS & DESIGN
- Michael Hrzic, PE
- Daniel Tanner, PE

TRAFFIC SERVICES
- Brin Ferlito, PE, PTOE
- Laurence Lambert, II, PE, PTOE, PTP

SURVEYING & TITLE WORK SERVICES

TOPOGRAPHIC SURVEYING
- Bradley Holleman, PLS, EI
- Ross Wilson, PLS

HYDROGRAPHIC SURVEYING
- Grant Gilleon, PLS
- Paul Rossini, PLS

TITLE RESEARCH AND REPORTING
- Mona Nosari
- Hubert Graves
- Sharon Loreno

ENVIRONMENTAL & PERMITTING SERVICES
- Lynn Maloney-Mujica, AICP
- Brian Fortson
- Cory Ricks
- Hunter Perrilloux
- Michael Hill, Jr.
- Jesse McQuigg

LEGEND
- HNTB Corporation
- Ardaman & Associates, Inc.
- Civix
- ELOS Environmental, LLC
- Forte & Tablada, Inc.
- KGC Environmental Services, Inc.
- Moffatt & Nichol, Inc.
- NTB Associates, Inc.
- Vectura Consulting Services, LLC
- Wiss, Janney, Elstner Associates, Inc.

Section 15:
Minimum Personnel Requirements (MPRs)

15. Minimum Personnel Requirements					
MPR No.	**Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)**	**Firm employed by**	**Type of license / certification required**	**State of license**	**License / certification expiration date**
1	David Flanders, PE	HNTB Corporation	Professional Engineer / #35264	LA	09-30-2022
2	Dusty Bastion, PE	HNTB Corporation	Professional Engineer / #36719	LA	03-31-2024
3	Dusty Bastion, PE	HNTB Corporation	Professional Engineer / #36719	LA	03-31-2024
3	John Bernard, PE	HNTB Corporation	Professional Engineer / #31026	LA	03-31-2024
4	Josh Porter, PE	HNTB Corporation	Professional Engineer / #39513	LA	09-30-2023
4	Joffrey Easley, PE	Forte & Tablada, Inc.	Professional Engineer / #31542	LA	03-31-2023
5	Dan Appelbaum, PE	HNTB Corporation	Professional Engineer / #38362	LA	03-31-2024
5	John Williams, PE	Wiss, Janney, Elstner Associates, Inc.	Professional Engineer / #44300	LA	09-30-2022
6	Paul Hunter, PE	HNTB Corporation	Professional Engineer / #45076	LA	03-31-2023
6	Gareth Rees, PE	Wiss, Janney, Elstner Associates, Inc.	Professional Engineer / #40754	LA	09-30-2022
7	Christian Brown, PE	HNTB Corporation	Professional Engineer / #39217	LA	03-31-2023
8	Kate Prejean, PE	HNTB Corporation	Professional Engineer / #35036	LA	3-31-2024
8	Allison Schilling, PE	Forte & Tablada, Inc.	Professional Engineer / #30265	LA	09-30-2022
9	Brian Powell, PE	HNTB Corporation	Professional Engineer / #41551	LA	09-30-2023

** Placement of multiple personnel in key MPR's is intentional. Refer to Section 18, Approach and Methodology, for more information.

Section 16:
Staff Experience

16. Staff Experience			
Firm employed by: HNTB			
Name	**Todd "Dusty" Bastion, PE**	**Years of relevant experience with this employer**	9
Title	Project Manager	**Years of relevant experience with other employer(s)**	7
Degree(s) / Years / Specialization	BS / 2007 / Civil Engineering		
Active registration number / state / expiration date	#36719 / Louisiana / 03-31-2024; #19341 / Arkansas / 12-31-2023; #21004 / Mississippi / 12-31-2022; #40122 / South Carolina / 06-30-2024; #136915 / Texas / 12-31-2022		
Year registered	LA 2011, AR 2020, MS 2012, SC 2022, TX 2020	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Project Manager; Bridge Engineering Services (Fixed Design/Construction Engineering Support); Accelerated Bridge Construction); Bridge Engineering Services (Bridge/Structural Inspection & Evaluation of Existing Bridges) **Minimum Personnel Requirement #2, 3**		
Dusty has experience in project management, design, detailing, analysis, inspection and load rating of bridge structures. His experience includes many types of superstructures and substructures in projects varying from multi-level interchanges to off-system bridge replacements. His responsibilities include structural design, plan development, specifications development, cost estimating, quality control review and project management ranging from standard bridge projects to non-typical accelerated time frame projects. He is proficient with AASHTO LRFD bridge design specifications and experienced in MicroStation, Inroads, ProjectWise, STAAD, Conspan, Mathcad, RC Pier and BrR. He is a former LADOTD bridge design section engineer and he has unparalleled knowledge of LADOTD's plan development and contracting processes. Dusty was the project manger for the two previous bridge preservation IDIQ contract's held with the department, and his understanding of what the department expects and his ability to deliver assignments in a timely manner is unmatched.			
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 time specified in the applicable MPR(s).**		
04/20-Present	**LADOTD IDIQ Contract of Bridge Preservation, Statewide, Louisiana** Project manager for this task order based IDIQ contract focused on bridge preservation. Over the two years, he has directly managed the contracting and execution of 14 task orders with more currently in the contracting process. Task orders have consisted of interstate median barrier design and detailing (I-20 in Bossier and I-110 in Baton Rouge), bridge replacements using phased construction (LA 1 over Caddo Lake in Mooringsport), and girder replacements/repairs due to overheight vehicle impacts (Orange Street over I-20 in Monroe, LA 3250 over I-49 in Alexandria, I-12 over LA 1032 in Denham Springs). He has provided direct oversight of production staff, including plan development guidance, sequence of construction input, construction support oversight, internal coordination and coordination directly with LADOTD personnel. Due to time-sensitive project delivery needs, many projects required accelerated project delivery and he collaborated with LADOTD task managers to understand schedule needed to ensure no project delivery delays occurred.		
08/15-04/22	**LADOTD Retainer Contract for Bridge Preservation, Statewide, Louisiana** Project manager for this task order based retainer contract focused on bridge preservation. Over the nearly 6.5 years this contract has been active, he directly managed the contracting and execution of 32 task orders. Task orders consisted of bridge rehabs/replacements using accelerated bridge construction techniques (I-20 Rehab in Bossier, U.S. 80 over I-20 in Calhoun, U.S. 90 over LDRR and LA 329 in New Iberia, U.S. 90 over LA 14 in New Iberia, I-10 Slab Spans over Veterans Boulevard in New Orleans), bridge replacements using conventional construction techniques (LA 442 over Tangipahoa River in Hammond, LA 532 over I-20 near Minden), and analysis/rehabilitation of thru-truss structures (LA 182 Bridge in Charenton, U.S. 90 Atchafalaya Bridge in Morgan City). He provided direct oversight of production staff, including plan development guidance, sequence of construction input, construction support oversight internal coordination and coordination directly with LADOTD personnel.		

16. Staff Experience	
05/17-Present	**LADOTD U.S. 90 Atchafalaya River Bridge Repairs, Morgan City, Louisiana** Project manager for this steel through-truss structure, which crosses the Atchafalaya River in Morgan City, LA. This project consists of numerous structural repairs to the steel superstructure and painting work which will allow the bridge to function for the foreseeable future. Mr. Bastion has managed distribution of all work assignments to-date, including both internal assignments and workshare with other offices. This project development phase was accelerated to allow the client to start construction work as early as possible. Currently this project is near the end of construction and construction support services are nearly complete. Prior to bridge rehabilitation work, he participated as a lead inspector in the in-depth inspection of this structure. All bridge repairs were developed based off of this in-depth inspection.
04/13-Present	**LADOTD LA 1 Leeville to Golden Meadow Phase 2, Leeville, Louisiana** Project manager for this bridge project, which will eventually connect at-grade LA 1 to the existing Phase 1 structure. His duties include coordination with LADOTD personnel, superstructure development, substructure development and geometric alignment development. His additional project coordination responsibilities include subconsultants, permits, utilities, electrical/lighting design, ITS design and tolling system design. This project is multi-faceted, including a phased design and construction approach, a tolling facility, levee, flood wall and pipeline crossings, unique accelerated bridge construction methods, and environmental regulations. This project is currently under construction and he is leading all construction support services activities.
02/13-06/17	**LADOTD U.S. 90 over LA 14, New Iberia, Louisiana** Project manager for this bridge replacement project, consisting of twin steel plate girder bridges crossing over a busy state highway with insufficient vertical clearance. His duties included structural and geotechnical design oversight, roadway and bridge plan development coordination, cost estimating, specification development, and detailed sequence of construction development. Coordination with a subconsultant performing geotechnical exploration was also required. To mitigate traffic impacts and reduce the duration of construction operations, this project will use ABC techniques. Each two span structure will be constructed off-site and moved into place using self propelled modular transporters (SPMT) to ensure that traffic flow will be minimally interrupted. This highway corridor will eventually become Interstate 49, and the new alignment layout will not affect the existing interchange to remain or the underlying roadway.
07/17-03/19	**LADOTD LA 442 over the Tangipahoa River Bridge Replacement, Tickfaw, Louisiana** Technical advisor for the bridge replacement project that was found to be unstable due to excessive scour. This project consisted of accelerated delivery of bridge and roadway plan for this bridge replacement and included obtaining topographical survey at the bridge site. Mr. Bastion managed roadway and bridge work as well as the survey subconsultant. Final plans were successfully delivered in only five months.
01/18-Present	**LADOTD In-Depth Inspection of Complex Structures, Statewide, Louisiana** As a certified team leader with a fracture critical inspection certification, Mr. Bastion has taken part in numerous in-depth bridge inspections. As part of this five-year retainer contract, he has participated in inspections on the I-10 Bridge in Baton Rouge (through-truss), I-10 Bridge in Lake Charles (through-truss), I-310 Bridge in Luling (cable-stay), LA 10 Bridge in St. Francisville (cable-stay), and U.S. 90 Bridge in Morgan City (through-truss). He has experience taking defects noted in these inspections, and developing repair recommendations and rehabilitation plans based on the findings.
05/12-04/16	**LADOTD I-20 Ouachita River Bridge, Ouachita Parish, Louisiana** Lead engineer and responsible for bridge rehabilitation for 16 connected bridge structures. He performed a damage assessment inspection including the main span over the Ouachita River and developed plans for this project work, which includes cleaning and painting of steel girders, structural concrete repairs, girder bearing replacement, finger joint replacement, joint seal installation, barrier rail modifications, epoxy deck overlay, and guardrail installation. Project work also included development of a TMP.

16. Staff Experience			
Firm employed by: HNTB			
Name	**David Flanders, PE**	**Years of relevant experience with this employer**	14
Title	Project Director, Vice President	**Years of relevant experience with other employer(s)**	24
Degree(s) / Years / Specialization	MBA / 1991 BS / 1983 / Civil Engineering		
Active registration number / state / expiration date	#35264 / Louisiana / 09-30-2022; #17666 / Georgia / 12-31-2022		
Year registered	LA 2010, GA 1989	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Principal-in-Charge **Minimum Personnel Requirement #1**		

David is an HNTB principal who been responsible for design, project management, and office operations management across the southeast United States and has served in management roles on major program management assignments including the Georgia Department of Transportation's (GDOT) Office of Innovative Delivery (OID) Program Management contract, Louisiana's Submerged Roads Program and the City of Biloxi, Mississippi's Infrastructure Repair Program. He has also served as a project manager and principal for numerous major infrastructure projects in Louisiana, Georgia and Mississippi.

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 time specified in the applicable MPR(s).
04/13-09/16	**LADOTD LA 1, Phase 2, Leeville to Golden Meadow, Louisiana** Former project manager for the design of approximately nine miles of elevated roadway and approaches to replace the flood-prone LA 1. The alignment connects to and continues the Phase 1 structure from Leeville to Golden Meadow. Phase 2 design includes spanning of multiple pipelines and a levee crossing as well as connection to LA 3235. The design also includes the construction of a 300-foot T-Wall at the levee crossing which required the development of a design documentation report (DDR) and coordination with the United States Army Corps of Engineers (USACE), New Orleans District. Assisted with obtaining 408 and 404 permits from the USACE for construction of the T-Wall, levee improvements and bridge foundation improvements within 300 feet of the levee while collaborating with the LADOTD environmental consultant. The design includes intelligent transportation systems (ITS) and future tolling considerations as well.
01/11-07/16	**Retainer Contract for Bridge Preservation, Statewide, Louisiana** Principal for contract and task order execution and operational responsibility for performance for this retainer contract to LADOTD. The work included engineering and related services such as roadway design, lighting design, fixed and movable bridge design, load rating and testing and design peer review.
10/08-05/16	**City of Biloxi Infrastructure Repair Program, Biloxi, Mississippi** Principal on this project, reconciling FEMA project worksheets, coordination with design engineering consultants, design plan phase submittals review and project controls efforts. The program included close coordination with the Federal Emergency Management Agency (FEMA), local utility providers and MSDOT. HNTB worked with the City of Biloxi, FEMA, Mississippi Emergency Management Agency (MEMA) and the Mississippi DOT (MSDOT) as the program manager for infrastructure improvements to sewer, water and drainage facilities damaged because of Hurricane Katrina.
09/12-07/16	**LADOTD Paths to Progress Program, New Orleans, Louisiana** Program administrator for this continuation of the Submerged Roads Program through 2016. His responsibilities included staffing, project quality reviews, consultant contracting, resource allocations, agency coordination and public outreach initiatives.
05/06-08/11	**LADOTD I-10 Bridge over Lake Pontchartrain Construction Engineering and Inspection, Slidell, Louisiana** Principal for this project responsible for the successful performance of assigned staff and resources including project reviews, resource allocation and client audits. As a major subconsultant, HNTB provided construction oversight and inspection services for the construction of the $900 million I-10 Twin Spans Bridge replacing the bridge damaged as a result of Hurricane Katrina.

16. Staff Experience			
Firm employed by: HNTB			
Name	**Bryan Jones**	**Years of relevant experience with this employer**	15
Title	Office Leader	**Years of relevant experience with other employer(s)**	3
Degree(s) / Years / Specialization	BS / 2005 / Mass Communications		
Active registration number / state / expiration date	NA		
Year registered	NA	**Discipline**	NA
Contract role(s) / brief description of responsibilities	Contract Management		

Bryan is a strategic planning, public relations and governmental affairs executive located in HNTB's Baton Rouge office, who as principal, oversees and ensures HNTB resources on transportation programs and projects of all modes. Bryan manages a variety of transportation planning and advisory services projects and leads the development and implementation of stakeholder outreach programs on major infrastructure programs. An industry and community leader, Bryan serves on the boards of several organizations with statewide and regional reach including the Louisiana Association of Business & Industry and the South Louisiana Super Region Committee. He chairs the American Council of Engineering Companies of Louisiana legislative committee. He leads governmental affairs activities and elected official outreach in Louisiana and serves as HNTB's Gulf Coast Office 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 time specified in the applicable MPR(s).
09/19-03/20	**LADOTD College Drive Flyover Ramp Project, Baton Rouge, Louisiana** Advisor and LADOTD liaison for this design-build procurement assignment; assisted with coordination and execution of the open house public meeting to provide information and collect comments on a flyover ramp designed to improve traffic flow within the I-10/I-12 westbound interchange. Tasks also included coordination with the Bocage Homeowners Association, stakeholders along the I-10 corridor from the I-10/I-12 split to downtown and elected officials in the development of proposed project renderings for use in the public meeting and other stakeholder engagement opportunities.
07/16-Present	**LADOTD LA 1 General Engineering Consultant (GEC), Golden Meadow to Port Fourchon, Louisiana** Project manager responsible for advisory services for the GEC program for the LA 1 bridge. Responsibilites include overight of this task order-based contract that includes a variety of assigments including general staff support to the DOTD Toll Division, strategic planning services for the conversion to All Electronic Tolling (AET), planning for roadside and back-office toll system replacement procurements, identifying operational improvements to enhance revenues while reducing operating costs, annual trust idenure-required inspections and integration with new Belle Chasse bridge toll system currently under design.
03/18-Present	**I-10/Loyola Interchange Design-Build Owner Verification, Jefferson Parish, Louisiana** Project manager and LADOTD liaison for this design-build owner verification project. Responsibilites include working closely with the prime consultant to ensure all technical review assignments based on design discipline and contents of each submittal are distributed to design reviewers and comments are compiled in Form DRs and returned within the agreed upon timeframe. Additional responsibilities include close coordination with DOTD district staff, DOTD headquarters communications staff and the design-build team regarding any activities that require public information notice such as lane closures and any extraordinary construction activities.
04/12-09/17	**LADOTD LA 23 Belle Chasse Bridge and Tunnel Replacement PPP, Plaquemines Parish, Louisiana** Advisor and LADOTD liaison for this alternative delivery bridge and tunnel replacement project. This public-private partnership project, the first of its kind in Louisiana, will replace two obsolete highway facilities with one new fixed-span bridge. Responsibilities included developer meeting logistical support, attendance in confidential meetings with developers and coordination with DOTD leadership.

16. Staff Experience

Firm employed by: HNTB

Name	**Hans Hutton, PE, SE**	**Years of relevant experience with this employer**	25
Title	Vice President, Chief Bridge Engineer	**Years of relevant experience with other employer(s)**	7
Degree(s) / Years / Specialization	MS / 1997 / Civil Engineering BS / 1990 / Civil Engineering		
Active registration number / state / expiration date	#38204 / LA / 03-31-2024 #52384 / CA / 12-31-2022 #85035 / FL / 02-28-2023 #81006707 / IL / 11-30-2022 #15414 / IA / 12-31-2023 #11200427 / IN / 07-31-2022 #28763 / KY / 06-30-2023 #53516 / MD / 12-02-2022 #51537 / MN / 06-30-2022 #17198 / MS / 12-31-2022 # 029174 / MO / 12-31-2022 #8025 / NE / 12-31-2023 #014523 / NV / 06-30-2023 #092196 / NY / 05-31-2024 #75782 / OH / 12-31-2023 #82975 / TX / 09-30-2022 #60180 / VA / 12-31-2022 #34375 / WI / 07-31-2022		
Year registered	LA 2013, CA 1994, FL 2018, IL 2009, IA 2000, IN 2012, KY 2012, MD 2018, MN 2014, MS 2006, MO 1998, NE 1994, NV 2000, NY 2013, OH 2011, TX 1997, VA 2013, WI 2000	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	QC/QA Manager; Bridge Engineering Services (Design Peer Review)		

Hans is a vice president, HNTB Fellow and chief engineer at HNTB. He has worked with a variety of bridge types including suspension, cable-stayed, arches, trusses, segmental, girder and rigid frames. He has worked with both fixed and movable bridges as well as roadway, railway and pedestrian bridges. He has also worked with a variety of foundations and temporary structures with experience in erection engineering. He has designed bridges over major navigable waterways including the Mississippi, Missouri, and Ohio rivers as well as the intercoastal waterways.

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 time specified in the applicable MPR(s).**
01/17-05/17	**Hale Boggs Memorial Bridge over the Mississippi River, Luling, Louisiana** Subject matter expert and field inspector for the in-depth inspection of this cable-stayed bridge. This is a three-span, cable-stayed bridge with a 1,220-foot main span across the Mississippi River. Field work included structural inspection of the cable-stayed unit along with the disassembly and reassembly of the stay-cable friction damping devices.
03/16-05/16	**John James Audubon Bridge over the Mississippi River, St. Francisville, Louisiana** Subject matter expert and field inspector for the in-depth inspection of this cable-stayed bridge. This is a three-span, 3,185-foot cable-stayed bridge across the Mississippi River. Field work included structural inspection of the cable-stayed unit along with the disassembly and reassembly of the stay-cable friction damping devices.
5/21-Present	**I-40 over the Mississippi River, Memphis, Tennessee** Structural analysis of the main spans of the 1,800-foot, two-span trussed arch bridge across the Mississippi River. After a significant fracture in one of the tie-girders was found during routine inspection, ArDOT retained HNTB to inspect and evaluate the bridge. This was an emergency assignment as the state closed the bridge to vehicular traffic and the river to marine traffic. Mr. Hutton built a 3D FE model of the bridge and evaluated the bridge in its fractured state for progressive collapse.
03/21-Present	**U.S. 169 over the Missouri River, Kansas City, Missouri** Lead bridge engineer for this major interchange and Missouri River crossing that included 10 bridges. Two bridges crossed the Missouri river which are over 1,800 feet in length and are comprised of a series of steel plate girder spans and prestressed concrete girder spans. This is a navigable waterway with spans over 450 feet in length. The piers were designed for vessel impact. Two bridges are curved flyovers about 1,500 feet in length that directly connect I-35 with U.S. 169 and are comprised of steel plate girder and prestressed concrete girder spans. The remainder of the bridges are approaches or smaller flyover bridges that are a combination of curved steel plate girder and prestressed concrete spans. The project employed a variety of reinforced concrete substructures founded on drilled shafts. This was a design build project with a value of $220 million.

16. Staff Experience

Firm employed by: HNTB

Name	**Steven Hague, PE, SE**	**Years of relevant experience with this employer**	34
Title	Bridge Group Director, Vice President	**Years of relevant experience with other employer(s)**	4
Degree(s) / Years / Specialization	MS / 1982 / Civil Engineering BS / 1981 / Civil Engineering		
Active registration number / state / expiration date	PE: #28414 / Louisiana / 09-30-2023; #9964 / Arkansas / 12-31-2022; #80271 / California / 09-30-2022; #89156 / Florida / 02-28-2023; #PE11011580 / Indiana / 07-31-2022; #15149 / Iowa / 07-31-2022; #15697 / Kansas / 04-30-2024; #49599 / Minnesota / 06-30-2022; #12891 / Mississippi / 12-31-2022; #EN 028068 / Missouri / 12-31-2022; #E-67905 / Ohio / 12-31-2023; #00105815 / Tennessee / 09-30-2023; #14189 / Wyoming / 12-31-2022 SE: #15825 / Hawaii / 01-07-2014; #081-005611 / Illinois / 11-30-2022; #22933 / Kentucky / 02-10-2003; #E-10069 / Nebraska / 02-02-2001; #25601 / Oklahoma / 02-03-2012		
Year registered	PE: LA 1999, AR 1999, CA 2012, FL 2020, IN 2010, IA 2010, KS 1999, MN 2012, MS 1996, MO 1996, OH 2003, TN 1999, WY 2013 SE: HI 2014, IL 1999, KY 2003, NE 2001, OK 2012	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	QC/QA Manager; Design Peer Review		

Steven is a program manager with over 38 years of experience in complex bridge and interchange design. He is responsible for managing multiple-office design assignments, which include specialists for tasks as diverse as wind tunnel studies, site-specific seismology, and geotechnical soil and rock remediation. He has developed the ability to review and coordinate a wide variety of disciplines to ensure that all the necessary pieces of complex design come together to successfully complete each bridge project.

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 time specified in the applicable MPR(s).
08/13-11/13	**LADOTD I-10 over East Pearl River Joint Repairs, Hancock County, MS and Tammany Parish, Louisiana** Engineer of record and project engineer shepherding this project from conceptual design through construction completion. Coordinated and oversaw design efforts for replacing these unique bascule bridge anchor span joints. The design of these joints used ABC techniques and was tailored to allow the contractor to replace a section of the joint in a short time-frame while maintaining vehicular traffic adjacent to the workzone.
05/14-07/14	**MDOT U.S. 84 Mississippi River Pin and Link Replacement, Natchez, Mississippi** Senior technical advisor and principal engineer responsible for project oversight, as well as developing the proposed construction sequence concept and quality assurance. Also served as the engineer of record for the recommended replacement procedure ultimately adopted by the contractor. He spearheaded this one-of-a-kind pin and link replacement project, which included load bypass of specific through truss members, in order to facilitate the replacement of fracture critical members. This process required design coordination through multiple offices.
10/08-07/09	**Huey P. Long Bridge Widening, New Orleans, Louisiana** Project engineer overseeing the erection engineering and existing bridge analyses for the widening of the Huey P. Long Bridge, a 1934 rail and roadway bridge over the Mississippi River. This bridge included a 1,850-foot, three-span continuous cantilever truss and a 531-foot, simple span truss. The bridge was widened with two additional trusses 50.5 feet outboard of existing trusses, extension of the roadway floorbeams and new portals and sway frames
09/05-08/08	**U.S. 90 Bridge over St. Louis Bay, Bay St. Louis, Mississippi** Project design quality control manager for this $275 million design-build replacement structure over St. Louis Bay. The project featured a 250-foot navigation span over the main channel. This emergency replacement project, as a result of Hurricane Katrina, required opening two lanes over the channel within 18 months.

16. Staff Experience			
Firm employed by: HNTB			
Name	**Josh Porter, PE**	**Years of relevant experience with this employer**	6
Title	Bridge Project Manager	**Years of relevant experience with other employer(s)**	6
Degree(s) / Years / Specialization	BS / 2010 / Civil Engineering		
Active registration number / state / expiration date	#39513 / Louisiana / 09-30-2023		
Year registered	LA 2015	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Task Order Manager; Bridge Engineering Services (Fixed Design/Construction Engineering Support); Bridge Engineering Services (Accelerated Bridge Construction); Bridge Engineering Services (As-designed, AS-built & Condition Load Ratings); Bridge Engineering Services (Bridge/Structural Inspection & Evaluation of Existing Bridges) **Minimum Personnel Requirement #4**		

Josh has experience in bridge design, load rating, inspection and detailing. His experience spans many types of structures, including trusses and gusset plates, PPC girders, and curved and straight steel girders. He has been tasked with developing load rating and design models, developing and overseeing the development of bridge plans, cost estimating and benefit analysis, project management, and leading and assisting in the inspection of bridges. He has a firm understanding of the AASHTO LRFD Bridge Design Specifications and the AASHTO Manual for Bridge Evaluation. He has proficient experience with AASHTO Bridge Rating and Bridge Design, LEAP CONSPAN AND RC Pier, STAAD, and CSi 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 time specified in the applicable MPR(s).**
05/20 to 06/22	**LADOTD LA 3250: I-49/UP RR Overpass Repair, Alexandria Louisiana** Project manager for a repair of a bridge crossing I-49 and the Union Pacific Railroad. Performed the assessment of the damaged structure to determine repair needs. Developed the concept of the replacement utilizing accelerated bridge construction techniques. Led the design team in the analysis of the new segment. Oversaw the detailing of the new segment and the outlining of the removal section to allow for seamless placement of the new segment within the footprint of the removed segment.
03/17-05/17	**LADOTD U.S. 90 over Atchafalaya River Bridge Inspection, St. Mary Parish, Louisiana** Led an inspection team for the inspection of a steel through truss bridge crossing the Atchafalaya River. Inspection responsibilities included the bottom chord, bottom of deck, gusset plates, and floor system.
12/16-05/19	**LADOTD U.S. 80 over I-20, Ouachita Parish, Louisiana** Project task manager for the demolition and replacement of a deficient bridge in northwest Louisiana crossing I-20. Tasked with design checking of the steel girder spans, design of the intermediate bent, design check of the end bents. Also utilized accelerated bridge construction techniques to develop a construction phasing plan limiting the closure of I-20.
06/17-11/17	**LADOTD LA 442 over Tangipahoa River Bridge Replacement, Tangipahoa Parish, Louisiana** Project task manager for an emergency spot bridge replacement of a bridge with scour concerns caused by the August 2016 flooding. Tasked with design checking of the superstructure and substructure, developing the construction plans, and managing the project.
01/17-03/17	**LADOTD Luling Mississippi River Bridge Inspection, St. Charles Parish, Louisiana** Led an inspection team for the inspection of a cable-stayed bridge crossing the Mississippi River. Inspection responsibilities included inspection of both the interior and exterior of the main steel box girders, interior and exterior of the wind faring, top of the deck, interior of the main towers, and main tower substructure.

16. Staff Experience	
11/19 to 09/20	**LADOTD Off-System Bridge Rating (53 Bridges), Statewide Louisiana** Project manager and lead load rating engineer for a large off-system load rating task. In order to comply with FHWA NBIS Metric #13, a substantial number of structures required load rating. Lead the effort overseeing the team to rate the various structures, which included prestressed girder bridges, rolled I-beam bridges, steel plate girders, and reinforced concrete slab spans. Many of the structures had poor quality, incomplete, or completely missing plans. Utilized engineering judgement and coordination efforts with the DOTD load rating group to develop the load ratings of structures with missing or incomplete plans.
09/20 to 09/21	**LADOTD I-20 Median Barrier, Bossier City, Louisiana** Lead load rating engineer and load rating task manager for the load rating of 12 bridges along the I-20 corridor in Bossier City, Louisiana as part of a larger median barrier design project. Bridge types included various steel structures, including curved continuous plate girders with expansion links and straight steel girders, hammerhead concrete column bents, haunched reinforced concrete T girder spans, and prestressed concrete girders. The curved continuous steel girders required 3D FEM analysis to complete.
07/19 to 09/20	**LADOTD I-10 Calcasieu Load Ratings, Lake Charles, Louisiana** Project manager and lead Load rating engineer for the load rating of 25 bridges along the I-10 corridor in Lake Charles, Louisiana. Structure types included steel girders, reinforced concrete haunched girders, and prestressed concrete girders.
05/18 to 06/21	**LADOTD LA-15 Boeuf River Bridge, Alto, Louisiana** Project manager for an off-alignment bridge replacement. The bridge consisted of 5 spans of LG-54 girders supported by reinforced concrete caps founded on 30" concrete piles.
10/18 to 05/20	**LADOTD LA-532 over I-20, Minden,Louisiana** Project manager for an off-alignment bridge replacement carrying LA 532 over I-20 in Minden, Louisiana. The project called for the use of LG-36 girders at nearly the maximum length to span the interstate while still meeting the vertical grade and clearance requirements. Spans were supported on column bents with 60" drilled shaft foundations.
10/16-03/18	**LADOTD Load Rating of Complex Bridges, Rapids and St. Mary Parishes, Louisiana** Lead rating engineer for this project which involved the inspection and load rating of two truss bridges: the LA 182 over Charenton Canal Bridge and the Jackson Street Bridge over the Red River. Completed the load rating of the Charenton Canal truss and reinforced concrete spans, developed the load rating report, and in a separate project, developed means to rehabilitate the structure. Lead the inspection of the Jackson Street Bridge in Alexandria, Louisiana. Also oversaw and checked the rating of the truss and steel girder spans and substructures of the Jackson Street Bridge.
06/14-06/15	**LADOTD Load Rating of 125 Bridges, Various Locations, Louisiana** Load rating engineer led the analysis, load rating and report development for 125 bridges throughout the state of Louisiana. The bridges included straight and curved steel I-girder spans, prestressed precast concrete girder spans, reinforced concrete girder spans and slab span superstructures. Pile supported sub structures consisting of timber, concrete and steel piles were included in the ratings.
01/14-12/15	**LADOTD 18 Posted Bridges, Various Locations, Louisiana** Load rating engineer inspector who assisted in the development of recommendations of methods to remove the load posting of 18 bridges throughout major truck routes in Louisiana. Led the inspections to verify major deficiencies listed in previous inspection reports. Also assisted in the analysis, evaluation and final recommendations on removing the posting, rehabilitation or replacement of the bridges. The bridges included reinforced concrete girder spans, prestressed concrete girder spans, steel truss swing spans and reinforced concrete slab spans. Refined analysis was used to justify the removal of the posting on some of the structures. For others, it was determined to either rehabilitate or replace the structures.
02/14-12/14	**LADOTD I-10 Bridge Evaluation near Lafayette, Lafayette and St. Martin Parishes, Louisiana** Load rating engineer who developed load rating models for many of the superstructures, determined which bridges met the minimum criteria allowing widening, developed cost analysis for widening versus replacements, developed reports outlining the benefits of each. The project was to evaluate 22 bridges along the I-10 corridor near Lafayette, LA for widening.
07/13-06/15	**LADOTD LA 1 over I-49 Bridge Rehabilitation, Rapids Parish, Louisiana** Designer, load rating and plan developer who assisted in the design of the substructure and drilled shafts for the new intermediate and end bents, the development of construction plans, and the as-designed load rating. The project was a rehabilitation of an existing bridge that had been subjected to settlement at the abutments, causing twisting of the existing continuous steel girder spans and failure of bearings. Plans were developed to remove the existing embankment and add spans to each side of the bridge. The existing structure would be temporarily shored in place while the existing abutments were replaced with a new intermediate bent. New abutments were placed and new spans were installed. The existing spans were then jacked to allow for replacement of their bearings and risers.

16. Staff Experience			
Firm employed by: HNTB			
Name	**Ben Goodner, PE**	**Years of relevant experience with this employer**	15
Title	Structural Engineer	**Years of relevant experience with other employer(s)**	0
Degree(s) / Years / Specialization	BS / 2008 / Civil Engineering		
Active registration number / state / expiration date	#38208 / Louisiana / 03-31-2024		
Year registered	LA 2013	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Taks Order Manager; Bridge Engineering Services (Fixed Design/Construction Engineering Support); Bridge Engineering Services (Bridge/Structural Inspection & Evaluation of Existing Bridges)		

Ben is a civil engineer with 15 years of experience in levee, floodwall, roadway, drainage design, levee inspection, bridge design, bridge inspection application of Bentley MicroStation and Inroads, and CADD/modeling in civil design. Ben has 11 years of bridge design experience working on LADOTD projects. He has been tasked with manging task orders as well as leading a team of individuals in bridge design, analysis and plan production.

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 time specified in the applicable MPR(s).
06/17-09/17	**LADOTD U.S. 90 Atchafalaya River Bridge Repairs, Morgan City, Louisiana** Lead engineer responsible for developing rehabilitation plans for the US 90 Atchafalaya River Bridge based on the inspection report. Repair items consisted of lower chord splice plate repairs, connection angle and plate retrofits and replacements, replacing missing or severely corroded bolts and rivets, retro fit of a new safety cable system, and gusset plate stiffening.
05/13-Present	**LADOTD LA 1 Phase 2, Leeville to Golden Meadow, Louisiana** Lead engineer responsible for developing design and plans for the nine-mile stretch of bridge and a 300-foot concrete T-Wall. His responsibilities included preliminary superstructure design of LG girders, deck design, substructure design, preliminary and final plan development, checking plans and design calculations, T-Wall site layout, plan and specification development. This $450-million project will provide a new two-lane bridge from Leeville to Golden Meadow that includes an intersecting T-intersection bridge near Golden Meadow. The T-intersection has a stem that consist of a two-lane, two-way urban arterial roadway that connects existing LA 1 to the new LA 1/LA 3235 bridge. Performed field investigations, developed detailed plans conforming to LADOTD design guidelines and standards. Coordinated with LADOTD the proposed roadway and drainage design features to meet the department's minimum design guidelines, Road Design Manual, EDSM publications, and conform to the Hydraulics Manual. Roadway design includes accommodations for pedestrians and bicyclists per the LADOTD's complete streets policy.
09/19-02/22	**City of New Orleans, Morrison Bridges, New Orleans, Louisiana** Project manager for this project rehabilitating three bridges and replacing two bridges along the Morrison Road Corridor. Responsibilities included managing design task and plan production, substructure and superstructure design, substructure & superstructure rehabilitation, construction phasing, quantities, and cost estimates.
09/20-Present	**LADOTD I-20 Rehabilitation (Pines Road to I-220), Bossier Parish, Louisiana** Project manager on this bridge rehabilitation and median barrier replacement project. Responsibilities include managing design task and plan production, layout and design of median barrier, construction phasing, quantities, and cost estimates.
09/20-09/21	**LADOTD Caddo Lake Bridge (HBI), Caddo Parish, Louisiana** Project manager on this bridge replacement project. Responsibilities include managing design task and plan production, design of substructures, site layout, construction phasing layout, quantities, and cost estimates. Tasks also include managing all submittals and reviews for construction services

16. Staff Experience			
Firm employed by: HNTB			
Name	**John Bernard, PE**	**Years of relevant experience with this employer**	24
Title	Senior Project Engineer	**Years of relevant experience with other employer(s)**	0
Degree(s) / Years / Specialization	BS / 1998 / Civil Engineering		
Active registration number / state / expiration date	#31026 / Louisiana / 03-31-2024; #19068 / Mississippi / 12-31-2022		
Year registered	LA 2004, MS 2009	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Fixed Design/Construction Engineering Support); Bridge Engineering Services (Accelerated Bridge Construction) **Minimum Personnel Requirement #3**		
John's experiences include bridge design, widening, repair, rating, inspection, construction support and plan preparation, as applicable for steel trusses, movable bridges, curved and straight plate girders, pre-stressed girders and timber structures. He has been involved in bridge projects from preliminary design through construction phases. He also has experience with various bridge inspections including many Mississippi River crossings. He has experience using LADOTD manuals and 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 time specified in the applicable MPR(s).
12/11-08/18	**LADOTD I-20 Overpass Rehabilitation, Bossier City, Louisiana** Lead design engineer responsible for inspection and repair plans for five, twin, steel-span and two concrete span bridges (Westerfield to Industrial). The project included many significant scope changes, including replacing rocker bearings, steel plate expansion joints, end bent backwall using precast sections, approach slabs (precast and CIP), bridge barriers and roadway median barriers, bridge barrier retrofits, deck overlay, steel repainting and concrete repair.
01/19-05/19	**LADOTD I-10 EB Veterans Blvd Bridge (Fire Repair), Jefferson, Louisiana** Developed repair plans for accelerated bridge construction of partial width, full span length repair using precast, slab span elements and closure pours. Other repairs included concrete patching, joint seals, and post and rail barriers.
04/13-Present	**LADOTD LA 1 Leeville to Golden Meadow Phase 2, Leeville, Louisiana** Lead design engineer for this bridge project, which will eventually connect at-grade LA 1 to the existing Phase 1 structure. His duties include coordination with LADOTD personnel, superstructure development, substructure development and geometric alignment development. His additional project coordination responsibilities include subconsultants, permits, utilities, electrical/lighting design, ITS design and tolling system design. This project is multi-faceted, including a phased design and construction approach, a tolling facility, levee, flood wall and pipeline crossings, unique accelerated bridge construction methods, and environmental regulations.
09/21-Present	**LADOTD I-110: North Street to Plank Road, East Baton Rouge, Louisiana** Lead design engineer who designed and developed plans for soil-founded, grade separated (up to 8 feet) cantilever retaining walls with traffic barriers, and steel girder repair due to vehicle impact damage using heat straightening and cover plates.
09/20-04/21	**LADOTD Caddo Lake Bridge (HBI) (H.013839), Caddo, Louisiana** Designed superstructure, non-standard approach slabs and guardrail. He also developed all bridge plans. The new 2,050-foot prestressed girder bridge replaces the existing bridge using phased construction.
10/18-3/19	**LADOTD U.S. 90: LDRR and LA 329 Overpass Rehab (H.011989), Iberia Parish, Louisiana** Lead design engineer responsible for developing repair plans for accelerated bridge construction using precast end bent backwall replacements under phase construction. Other repairs included approach slab, concrete patching, anchor bolts, joint seals, and bearing pads.

16. Staff Experience	
11/18-12/18	**LADOTD LA 15 Boeuf River Bridge (H.000974), Richland, Louisiana** Developed the plans for a five-span prestressed girder bridge with pile bents and design of a non-standard approach slab.
05/15-04/18	**LADOTD I-20 Bridge Rehabilitation, Ouachita Parish, Louisiana** Designed and developed repair plans for bearing and bent riser replacements, anchor bolt repairs, structural concrete patching, steel girder repairs, deck resurfacing, new joint seals, and new custom finger joint drainage troughs to protect steel girders.
08/13-09/14	**LADOTD I-10 over East Pearl River Joint Repairs (MDOT 106598/101000), Hancock County, Mississippi – St. Tammany Parish, Louisiana** Design engineer responsible for design to replace unique bascule bridge anchor span joints that were failing. This design included accelerated construction methods which allowed the contractor to install the joint in a short timeframe while maintaining vehicular traffic adjacent to the work zone.
03/14-08/16	**LADOTD I-20 Ouachita River Bridge Repairs, Monroe, Louisiana** Lead design engineer responsible for construction phase supplementary design and plan change order development for bearing replacements which were not discovered until after construction began. He also performed field inspections of additional bridge deficiencies discovered by the contractor.
02/13-04/13	**LADOTD LA 20 over Bayou Chevreuil (H.009481), St. James Parish, Louisiana** Design engineer responsible for rating damaged pile bents using STAAD analysis and checking the Virtis ratings for CIP and precast slab spans and the steel beam main span.
10/02-05/12	**LADOTD Highway 11 Over Doullut Canal, Empire, Louisiana** Design engineer responsible for checking and performing final design calculations for a 150-foot unequal arm swing span bridge with concrete slab span approaches. He supervised production of final plans, reviewed shop drawings and performed final construction inspection.
10/08-11/08	**LADOTD I-12 Widening Design-Build Proposal, East Baton Rouge Parish, Louisiana** Responsible for preliminary designs, plans, and quantities for about 2,500 feet of the spread and pile footing supported, concrete cantilever retaining walls (5- to 12-foot stems) with traffic barrier for this design/build contractor bid.

16. Staff Experience

Firm employed by: HNTB

Name	**Marc Hoffmann, PE**	**Years of relevant experience with this employer**	4
Title	Engineer III	**Years of relevant experience with other employer(s)**	3
Degree(s) / Years / Specialization	MS / 2018 / Civil Engineering BS / 2015 / Civil Engineering		
Active registration number / state / expiration date	#44342 / Louisiana / 09-30-2022		
Year registered	LA 2020	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Fixed Design/Construction Engineering Support); Bridge Engineering Services (As-designed, AS-Built & Condition Ratings); Bridge Engineering Services (Bridge/Structural Inspection & Evaluation of Existing Bridges)		

Marc brings over seven years of experience in bridge design, inspection, evaluation and rehabilitation. In his tenure, he has gained extensive knowledge of the AASHTO manuals for bridge design, evaluation and element 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 time specified in the applicable MPR(s).
10/20-03/22	**LADOTD LA 3250: I-49/UPRR Overpass Repair, Alexandria, Louisiana** Technical engineer for the project which consisted of partially replacing a 95-foot concrete prestressed girder span that was hit by an over-height vehicle. To ensure minimal impact to traffic, the new portion of the span was constructed off-site and moved into place using Self-Propelled Modular Transporter (SPMT). He was tasked with designing the new girders to replace the damaged girders and ensuring the newly constructed portion of the span would fit into place once it was moved with SPMT. He used computer-aided software (LEAP Bridge Concrete) to calculate superstructure girder capacities and loads. Marc also used Bentley MicroStation to produce drawings for the plan set, and Marc also performed quality control on the MicroStation sheets.
10/21-Present	**LADOTD I-20: Orange Street Overpass Repair, Monroe, Louisiana** Technical engineer for the project which consisted of repairing a 123-foot steel girder span that was hit by an over-height vehicle. The project consisted of replacing 57 transverse stiffeners and performing heat straightening of two steel I-beam girders. His responsibilities included performing quality control on the transverse stiffener replacement design, heat straightening means and methods, and reviewing the MicroStation sheets. He also assisted with developing the cost estimate and quantities for the project.
02/18-06/18	**LADOTD Load Rating of 18 Complex Bridges, Statewide, Louisiana** Technical engineer tasked with conducting quality checks on all models and reports for each of the 18 complex bridges. Ensured results were accurate and representative of the condition of the bridges after each bridge was deemed ready for review.
06/16-02/17	**LADOTD Inspection and Load Rating of Three Complex Truss Bridges, Statewide, Louisiana** Inspector and technical engineer tasked with the inspection of the gusset plates for each of the three truss bridges. Performed load rating analysis. Coordinated with local state traffic control divisions, taking measurements and recording observations during the inspection, and performing post-analysis and generating inspection reports for each bridge.
02/18-06/18	**LADOTD LA 27: I-10 Overpass Repairs, Sulphur, Louisiana** Inspector and technical engineer who performed the initial site inspection of the bridge after it was struck by an overheight vehicle. Tasked with executing the current load rating analysis of each bridge, as well as producing MicroStation sheets for the rehabilitation plans. For the inspection, he took measurements and recorded observations during the inspection and performing post-analysis and generating inspection reports for each bridge. For the analysis: created models for the superstructure of each bridge using AASHTOWare Bridge Rating.
01/15-06/16	**LADOTD Load Rating of 125 Bridges, Statewide, Louisiana** Technical engineer tasked with analyzing bridges and generating summary reports. The bridges to be analyzed consisted of reinforced concrete slab bridges, reinforced concrete beam bridges, pre-stressed concrete beam bridges, and steel I-beam bridges. He created and evaluated models for the superstructure of each bridge using AASHTOWare Bridge Rating. Models were made for the substructure of each bridge using Bentley RC Pier.

16. Staff Experience

Firm employed by: HNTB

Name	**Nicholas Hart, PE**	**Years of relevant experience with this employer**	8
Title	Bridge Engineer	**Years of relevant experience with other employer(s)**	1
Degree(s) / Years / Specialization	MS / 2016 / Civil Engineering BS / 2013 / Civil Engineering		
Active registration number / state / expiration date	#43150 / Louisiana / 03-31-2023; #048458 / North Carolina / 12-31-2022		
Year registered	LA 2018, NC 2019	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Fixed Design/Construction Engineering Support); Bridge Engineering Services (Bridge/Structural Inspection & Evaluation of Existing Bridges)		

Nicholas has experience in bridge analysis and design, plan development, plan review, as well as field inspection. His responsibilities have included inspection of various types of superstructures and substructures, analysis and load rating of various types of superstructures and substructures, design of traditional bridges and structures other than traditional bridges, plan development and quality control review. He has experience with AASHTO LRFD bridge design specifications, LADOTD BDEM, NCDOT SMU Manual, AASHTO Highway Safety Manual, AASHTO Policy on Geometric Design of Highways and Streets, MicroStation, AutoCAD, and Mathcad.

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 time specified in the applicable MPR(s).
03/17-06/18	**LADOTD U.S. 90 Atchafalaya River Bridge Rehab (H.011494.5), Morgan City, Louisiana** Bridge engineer tasked with using the inspection report from the previous inspection to design and detail rehabilitation plans for the US 90 Atchafalaya River Bridge. The repairs were limited to work on the through truss superstructure and included replacing splice plates, replacing angle connections, and replacing missing or severely corroded bolts.
05/13-08/21	**LADOTD LA 1 Phase 2, Leeville to Golden Meadow, Louisiana** Project engineer for this bridge project which will eventually connect at-grade LA 1 to the existing Phase 1 structure. His duties include plan development, plan review and quantity calculations. This project is multi-faceted including a phased design and construction approach, a tolling facility, levee and pipeline crossings, unique accelerated bridge construction methods and environmental regulations.
08/20-12/20	**LADOTD LA1 Caddo Lake Bridge Replacement, Caddo Parish, Louisiana** Bridge engineer who completed quality control reviews on the end bent and bent designs, as well as provided Quality Control Plan Review of the substructure and superstructure plans to ensure accordance with the design intent.
04/20-07/20	**LADOTD Off-System Bridges Load Ratings, Statewide, Louisiana** Bridge engineer who completed load ratings using AASHTOWare Bridge Rating and Bentley STAAD.pro software to model superstructure and substructure for 25 bridge structures. Upon completion of ratings, summary reports of the findings and recommendations were provided to LADOTD. The structures varied in complexity and included steel girders, reinforced concrete girders, reinforced concrete slabs, prestressed concrete girders, and prestressed concrete slabs.

16. Staff Experience

Firm employed by: HNTB

Name	**Patrick Duffy, PE**	**Years of relevant experience with this employer**	1
Title	Engineer III	**Years of relevant experience with other employer(s)**	5
Degree(s) / Years / Specialization	MS / 2020 / Civil Engineering BS / 2016 / Civil Engineering		
Active registration number / state / expiration date	#45363 / Louisiana / 09-30-2023		
Year registered	LA 2021	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Fixed Design/Construction Engineering Support); Bridge Engineering Services (As-designed, AS-built & Condition Ratings)		

Patrick has experience working on a variety of bridges, including slab span, steel I-beam, steel plate girder swing span, steel truss, concrete precast slab units, and concrete prestressed girder bridges. Having worked on both simple and complex bridges throughout the state of Louisiana for the LADOTD, he is familiar with the proper requirements and standards that the LADOTD expects. He is proficient in essential programs such as AASHTOWare BrR, Bentley LEAP RCPier, MathCad, and MicroStation.

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 time specified in the applicable MPR(s).
12/19-04/21	**LADOTD MacArthur Interchange Completion Phase II, Harvey, Louisiana** Structural engineer intern responsible for designing the girder details of 45 spans. Tasks included designing 93 concrete prestressed girders, developing dapped end girder reinforcement details for both the 72-inch PPC Louisiana Girder (LG-72) and a 72-inch U-Shaped PPC Girder, and designing deck reinforcement. He also assisted in the design of the three-span continuous slab unit for both the on and off ramp and developed reinforcement details. He additionally performed QA/QC reviews on the design of the deck drainage. The project provides connections between the eastbound direction of the West Bank Expressway and the eastbound frontage road near Peters Road and the East Bound Harvey Tunnel. The project consists of providing all necessary engineering design services required to construct two separate ramp structures and the relocation of the frontage road in the eastbound direction.
04/21-10/21	**LADOTD LA 1 Phase 2 Bridge, Lafourche Parish, Louisiana** Bridge engineer on the slab span substructure design team for the elevated bridge intersection connecting relocated LA 1 with the existing road. bridge repair. Lead team for load rating of new superstructure and substructure of Phase 2C. The project involves elevating an 8.3-mile stretch of two-lane, at-grade, rural state highway 1 to 22 feet above the rising Gulf of Mexico and surrounding marsh to eliminate frequent inundation and consequential energy production impacts.
07/19-09/20	**LADOTD Bridge Load Ratings, Statewide, Louisiana** Structural engineer intern responsible for rating 13 bridges, assisting younger engineers on the load rating process, and provided QA/QC review of the bridge models, results, and reports of 46 other bridges. He reviewed the as-built drawings of the bridges, determined the appropriate load rating method, performed load rating analysis on the selected bridges using AASHTOWARE Bridge Rating, LEAP Bridge Concrete, and MathCad, and wrote the load rating reports of the findings. Load rating and evaluation was performed by SDR Engineering on 396 off-system bridges throughout the state. The bridge types in this project are cast-in-place slab, precast slab units, concrete deck girder, prestressed concrete girders, steel plate-girders, frame culverts, arch culverts, and swing spans.

16. Staff Experience			
Firm employed by: FORTE & TABLADA			
Name	**Russell "Joey" Coco, PE**	**Years of relevant experience with this employer**	14
Title	President / CEO	**Years of relevant experience with other employer(s)**	6
Degree(s) / Years / Specialization	MBA / 2006 BS / 2000 / Civil Engineering / Coastal Engineering Certificate / 2008		
Active registration number / state / expiration date	31337 / LA / 09-30-2022		
Year registered	2004	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Fixed Design/Construction Engineering Support)		

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 time specified in the applicable MPR(s).
03/18-Present	**LADOTD Retainer Contract for Off-System Bridge Load Rating, Statewide, Louisiana** QA/QC review engineer for a retainer contract that includes multiple task orders to inspect and load rate off-system bridges and culverts across the state. **Task Order 1** – Inspection and load rating of 12 complex off-system bridges, including lift spans, swing spans, bascule spans, ferry landings and truss bridges. **Task Order 2** –Inspection and load rating of approximately 200 off-system bridges, consisting primarily of slab spans; **Task Order 4** –Inspection and load rating of approximately 300 off-system bridges, consisting primarily of slab spans, but also including concrete and steel girder spans.
03/14-03/17	**LADOTD Load Rating of On-System Bridges, Statewide, Louisiana** QC/QA review engineer for over 200 slab span and girder bridges across Louisiana. Utilized Virtis load rating software.
06/16-04/20	**St. Tammany Parish Off-System Bridge Load Ratings, St. Tammany Parish, Louisiana** QC/QA review engineer for the data collection, inspection, and load rating of numerous slab span, girder, and railcar bridges in St. Tammany Parish.
11/16-10/20	**Livingston Parish Off-System Bridge Load Ratings, Livingston Parish, Louisiana** QC/QA review engineer for the inspection and load rating of numerous existing slab span bridges and culverts in Livingston Parish In accordance with FHWA Metric 13, which requires a current load rating of all off-system bridges.
04/11-10/16	**Iberville Parish Bridge Ratings and Prioritization, Iberville Parish, Louisiana** Project engineer for continued off-system bridge ratings, repairs, and repair/replacement prioritization recommendations for Iberville Parish.
05/19-09/19	**Danziger Bridge Rehabilitation, Orleans Parish, Louisiana** Principal overseeing survey investigation of Danziger Bridge. Included laser scanning and comparison of actual conditions to original plans.
10/18 - 12/18	**LADOTD Sunshine Bridge Repair, St. James Parish, Lousiana** Principal overseeing topographic surveying and terrestrial LiDAR services for the project following the severe impact of a barge mounted crane with the lowest horizontal bridge chord.

16. Staff Experience	
05/17-10/18	**LADOTD Belle Chasse Bridge and Tunnel Replacement Hydrographic Survey, Plaquemines Parish, Louisiana** Principal-in-charge for comprehensive topographic surveying services for the Belle Chase Bridge and Tunnel Replacement project. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway surfaces and multi-beam 3D hydrographic surveying.
11/19 - 11/20	**LADOTD Calcasieu River Bridge Investigation, Lake Charles, Louisiana** Principal overseeing laser scanning services for the I-10/Lake Calcasieu bridge.
08/19-Present	**I-10/Loyola Interchange Improvements, Kenner, Louisiana** Principal-in-charge overseeing topographic survey, ROW survey and drainage survey. The project stretches from the levee in Kenner to the Williams Boulevard off-ramp, as well as Loyola Avenue and portions of Veterans Boulevard.
11/18-04/19	**LADOTD LA 327 Spur: Staring Lane Extension, East Baton Rouge Parish, Louisiana** Principal-in-charge for comprehensive topographic surveying services and developing a drainage map for the Staring Lane Extension project. Included in this work was a survey performed utilizing traditional methods and terrestrial laser scanning of roadway surfaces.
01/10-12/12	**LADOTD I-10: Siegen Lane to Highland Road Design Build Independent Technical Review (ITR), East Baton Rouge Parish, Louisiana** ITR lead for all bridge structures.
09/17-12/19	**Palmetto Co. Canal Bridge, St. Landry Parish, Louisiana** Principal-in-charge to provide property surveys, title take-offs, and right-of-way map services for the removal and replacement of a timber trestle bridge that spans Bayou Des Glaises, located along LA Highway 10 in St. Landry Parish near the town of Palmetto.
01/09-12/10	**LADOTD I-12: O'Neal Lane to Range Road Design Build ITR, East Baton Rouge Parish, Louisiana** ITR lead f all bridge structures.
03/15-02/18	**Holly Drive Bridge Replacement, St. Tammany Parish, Louisiana** Project principal for an existing timber bridge replacement in St. Tammany Parish.
03/15-07/15	**Bossier Parish Bridge Priority Study, Bossier Parish, Louisiana** Project manager and engineer for prioritizing the repair and maintenance of 12 bridges owned by Bossier Parish Police Jury.
11/14-09/19	**Railroad Bridge Replacement, Plaquemines, Louisiana** Principal for the replacement of an existing railroad bridge structure in an industrial plant.
12/14-11/15	**Westdale Road Bridge over Bayou Pierre, DeSoto Parish, Louisiana** Principal for laser scanning, inspection and repair plans for an existing closed bridge.

16. Staff Experience			
Firm employed by: FORTE & TABLADA			
Name	**Joffrey Easley, PE**	**Years of relevant experience with this employer**	14
Title	Project Manager	**Years of relevant experience with other employer(s)**	3
Degree(s) / Years / Specialization	MS / 2003 / Civil Engineering BS/ 2000 / Civil Engineering		
Active registration number / state / expiration date	31542 / LA / 03-31-2023		
Year registered	LA 2004	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Fixed Design/Construction Engineering Support); Bridge Engineering Services (As-Designed, As-Built & Condition Ratings)		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
03/18-Present	**LADOTD Retainer Contract for Off-System Bridge Load Rating, Statewide, Louisiana** Project manager, load rating engineer and team leader for a retainer contract that includes multiple task orders to inspect and load rate off-system bridges and culverts across the state. **Task Order 1** – Inspection and load rating of 12 complex off-system bridges, including lift spans, swing spans, bascule spans, ferry landings and truss bridges. **Task Order 2** – Inspection and load rating of approximately 200 off-system bridges, consisting primarily of slab spans. **Task Order 4** – Inspection and load rating of approximately 300 off-system bridges, consisting primarily of slab spans, but also including concrete and steel girder spans.
01/21-09/21	**Retainer for Bridge Preservation - U.S. 90: Westbank Expressway Rehab, Jefferson Parish, Louisiana** Project manager to develop plans for the rehabilitation of the nearly 6-mile-long Westbank Expressway.
10/15-04/19	**LADOTD Retainer Contract for Bridge Preservation – Atchafalaya Floodway, Baton Rouge and Lafayette, Louisiana** Project manager to provide engineering services for the rehabilitation of multiple bridges along I-10 between Baton Rouge and Lafayette. Bridge types included PPC and steel girder spans, steel grid deck and slab spans. Scope of work included performing a detailed inspection, documenting deficiencies and preparing rehabilitation plans for all bridges.
11/16-10/20	**Livingston Parish Off-System Bridge Load Ratings – Livingston Parish, Louisiana** Inspection and load rating lead of numerous existing slab span bridges and culverts so that Livingston Parish would follow FHWA Metric 13, which requires all Off-System bridges to be load rated.
05/16-10/19	**Retainer Contract for Complex Bridge Rating, Statewide, Louisiana** Project manager to perform a load rating for the U.S. 90 West Middle River Bridge near the Louisiana/Mississippi border. A detailed inspection of the steel through-trusses was also provided.
06/16-04/20	**St. Tammany Parish Off-System Bridge Load Ratings, St. Tammany Parish, Louisiana** Project manager to collect all available bridge files from all available resources, including LADOTD and Parish records, for numerous slab span, girder, and railcar bridges in St. Tammany Parish and perform inspections and load ratings for the bridges.

16. Staff Experience	
11/16-10/20	**Livingston Parish Off-System Bridge Load Ratings, Livingston Parish, Louisiana** Inspection and load rating of numerous existing slab span bridges and culverts so that Livingston Parish would follow FHWA Metric 13, which requires all off-system bridges to be load rated.
04/18-09/18	**Tangipahoa Parish Off-System Bridge Load Ratings, Tangipahoa Parish, Louisiana** Inspection and load rating of two railroad flatcar bridges and a slab span bridge to comply with FHWA Metric 13, which requires a load rating of all off-system bridges.
05/20-07/20	**St. James Parish Off-System Bridge Load Rating, St. James Parish, Louisiana** Inspection and load rating of a slab span bridge to comply with FHWA Metric 13, which requires a load rating of all off-system bridges.
08/19-02/20	**LADOTD Retainer for In-Depth Bridge Inspections, Simmesport, Louisiana** Inspection of the approach spans, consisting of rolled steel and plate girder spans supported by column bents of the LA 1 bridge over the Atchafalaya River.
04/11-10/16	**Iberville Parish Off-System Bridge Load Ratings and Prioritization, Iberville Parish, Louisiana** Inspection and load rating of 42 existing off-system bridges so that Iberville Parish would follow FHWA Metric 13, which requires all Off-System bridges to be load rated. Also developed a repair and replacement report for all bridges.
12/12-Present	**Cook Road Expansion, CITY, Louisiana** Designed and produced plans for new bridges over Gray's Creek to provide additional access to the Juban Crossing shopping center by extending Cook Road off of Pete's Highway. Bridge includes special details to accommodate sidewalks for pedestrian use.
10/18-5/19	**LADOTD U.S. 190 over UPRR and Little Teche Bayou, St. Landry Parish, Louisiana** Project engineer for this project that developed a scoping document for the replacement or rehabilitation of the east and westbound U.S. 190 bridges over the Union Pacific Railroad (UPRR) near I-49 and over Little Teche Bayou in St. Landy Parish. Based on the findings, a bridge evaluation report outlining the feasibility and preliminary cost estimates for several construction phasing alternatives, as well as a recommended scope of work was developed.
11/14-08/16	**Westdale Road over Bayou Pierre Repairs, DeSoto Parish, Louisiana** Inspected, laser scanned, developed plans, and provided construction administration services for the repairs of a timber bridge that had been closed due to its deteriorated condition. Provide a load rating following the completion of the repairs. Repairs allowed the bridge to be re-opened to vehicular traffic.
01/16 - 01/21	**LADOTD Whittington Road Bridge Replacement, Livingston Parish, Louisiana** Design engineer for the replacement of an existing timber bridge over Grays Creek with a new concrete slab span bridge through the LADOTD off-system bridge replacement program.
12/13-05/14	**Million Dollar Road Bridge Rating, St. Tammany Parish, Louisiana** Rating engineer for load rating of a slab span bridge in St. Tammany Parish. Utilized Virtis load rating software.
06/15-06/16	**East Baton Rouge Parish Bridge Replacements, East Baton Rouge, Louisiana** Provided design services and load rated multiple slab span bridges that incorporated sidewalks. Design services included determination of pile loads, superstructure and substructure design, and independent technical review of completed plans.
05/13-12/14	**Musson Lane Bridge Replacement, Iberville Parish, Louisiana** Performed a detailed structural inspection and load rating of the existing bridge constructed of precast concrete spans and timber caps and piles. Developed plans and specifications for the replacement of the existing bridge with a new precast concrete slab span bridge.
02/13-11/14	**2012 Livingston Parish Bridge Replacement Program, Louisiana** Replacement of seven bridges with precast concrete slab spans and precast concrete arch bridges in an effort to improve drainage. Reviewed final plans and designed precast concrete arch bridge substructures.

16. Staff Experience			
Firm employed by: HNTB			
Name	**Christian Brown, PE**	**Years of relevant experience with this employer**	29
Title	Vice President/Project Director	**Years of relevant experience with other employer(s)**	0
Degree(s) / Years / Specialization	MS / 1993 / Civil Engineering BS / 1992 / Architectural Engineering		
Active registration number / state / expiration date	39217 / LA / 03-31-2023; 20695 / CT / 01-31-2023; 18125 / IA / 12-31-2023; 30194 / MO / 12-31-2023; 11748 / NE / 12-31-2023; 86839 / OR / 12-31-2023		
Year registered	LA 2014, CT 1999, IA 2006, MO 1999, NE 2006, OR 2012	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Movable Design/Construction/Engineering Support); Bridge Engineering Services (Bridge Protection Systems) **Minimum Personnel Requirement #7**		

Christian's specific area of expertise includes the design of movable bridges, having directly managed movable bridge design, rehabilitation and construction projects for the last 22 years. He currently serves as HNTB's national movable bridge practice leader. In this role, he partners with HNTB's structural, mechanical and electrical engineers to deliver a wide array of movable bridge solutions on projects across the U.S. During his 29 years with HNTB, he has been involved in a wide variety of movable bridge feasibility, design and construction projects. Christian is responsible for projects through their entire lifecycle, including environmental permitting, planning, preliminary and final design and construction phase services. He has worked closely with many agencies in the permitting and construction of river crossings, including the U.S. Coast Guard and the USACE.

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 time specified in the applicable MPR(s).**
01/09- 10/11	**LADOTD Almonaster Avenue over the Inner Harbor Navigation (Strauss Bascule Bridge), New Orleans, Louisiana** Project manager responsible for the preliminary design, final design and construction phase services for the $60 million reconstruction of the existing movable span and fixed approach spans. A feasibility study, which included full structural, mechanical and electrical inspections of the Strauss Bascule Span and fixed spans alternatives analysis, constructability reviews, construction cost estimates, construction schedules and final recommendation report was followed a final Environmental Assessment, including consultation with the state historic preservation office and United States Coast Guard.
01/12- 01/14	**LADOTD Belle Chasse Tunnel and Bridge (LA 23) Replacement, Plaquemines Parrish, Louisiana** Project manager responsible for the concept development, alternatives analysis, and preliminary engineering associated with the reconstruction of the Gulf Intercoastal Waterway crossing. The existing facility consists of a vertical lift span carrying westbound traffic and a tunnel carrying eastbound traffic. As part of the Phase I environmental work, HNTB evaluated steel and concrete structure types and span arrangements for high-level fixed bridge alternatives. Movable bridge alternatives included vertical lift spans and double-leaf bascule spans. The Phase I work included providing support for the NEPA environmental document, development of construction cost estimates and schedules and preliminary plans. Also, due to the site constraints, a detailed construction-phasing scheme was also developed with close coordination with the USCG for the maintenance of navigation traffic.
10/02-05/12	**LADOTD Doullut Canal Bridge, Highway 11, Plaquemines Parish, Louisiana** Design quality control manager providing QA/QC for the structural, mechanical and electrical design of the replacement swing span.
04/17-06/20	**Ballard Bridge, Seattle, Washington** Principal-in-charge and engineer of record for the replacement of the existing double track Strauss heel trunnion bascule span with a new double track single leaf rolling bascule span.

16. Staff Experience	
01/12 -12/16	**U.S. Army Corps of Engineers (USACE) LPV 145 Swing Span Bridge at Bayou Bienvenue Floodgate, St. Bernard Parish, Louisiana** Movable bridge design project manager for the $10 million hydraulically-driven movable bridge project located in St. Bernard Parish, Louisiana in Bayou Bienvenue. The bridge is adjacent to the existing sector gate control structure and will serve as critical northern access to the LPV 145 that was previously dubbed an island as it was framed by Bayous Bienvenue and Dupre. The 140 -foot bob tail swing span bridge is comprised of a welded composite steel thru girder system that swings in and out of place, concrete approach spans supported by prestressed concrete pile bents, that tie back to existing grade with earthen embankments.
08/14-Present	**Metro-North Railroad Walk Bridge over the Norwalk River, Norwalk, Connecticut** Project manager and Engineer-of-Record for the replacement of the Metro-North Railroad (MNR) Walk Bridge over the Norwalk River. The existing rim-bearing swing span, constructed at the end of the 19th century, carries four tracks for commuter and freight trains over the Norwalk River and North Water Street. This structure is a vital component of the Northeast Corridor between New York and Boston and carries a minimum of 196 trains per day for MNR and Amtrak. HNTB tasks include environmental analysis and permitting services, developing wetland and public access mitigation strategies and design measures for impacts to tidal wetlands and public access to the waterway, and historical mitigation strategies.

16. Staff Experience

Firm employed by: HNTB

Name	**Manab Medhi, PE, SE**	**Years of relevant experience with this employer**	14
Title	Bridge Department Manager	**Years of relevant experience with other employer(s)**	1
Degree(s) / Years / Specialization	MBA / 2014 MS / 2008 / Civil Engineering BS / 2004 / Civil Engineering		
Active registration number / state / expiration date	PE: #0045083 / Louisiana / 03-13-2023; #53297 / Arizona / 06-30-2024; #050815 / North Carolina / 12-31-2022, #0402062504 / Virginia / 08-31-2022 SE: #081008232 / Illinois / 11-30-2022		
Year registered	PE: LA 2020, AZ 2012, NC 2020, VA 2020 SE: IL 2018,	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Movable Design/Construction/Engineering Support)		

Manab is the bridge department manager in HNTB's Kansas City, Missouri office with more than 12 years of experience in bridge design. He has worked with a variety of bridge types, including highway and rail, delivered using DBB, DB and CMGC delivery methods. His experience primarily includes project management, structural design, development of bridge layout, developing construction sequence, reviewing temporary work and construction methods developed by contractors, responding to RFI's. He also provided construction supports during the construction phases of several complex projects that included large scale drilled shaft foundations, curved girders on straddle caps with unique configurations, long span trusses, erection, and balance of bascule spans etc.

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 time specified in the applicable MPR(s).
01/10-12/12	**Huey P. Long Bridge over the Mississippi River, New Orleans, Louisiana U.S. 90 Huey P. Long Bridge Widening, New Orleans, Louisiana** Assisted in design of gusset plate connections for the truss and pile driving templates.
01/09-12/11	**CP Bridge 283.27 over the Mississippi River, La Crescent, Minnesota** One of the lead design engineers for the design of a new single-track 330-foot vertical lift span that will replace an existing swing span under the Truman-Hobbs Act. Designed and detailed two approach trusses of 180-foot span, an open-deck TPG, 115-foot-tall tower system and counterweight, and carried out the balance calculation for the movable span. He also checked full-scale design plans of lift span truss and substructures. Construction efforts needed to accommodate a heavy schedule of trains, including 25 freight trains and two Amtrak trains per day. 3D visualization allowed the team to demonstrate HNTB's ability to tackle the most significant design challenge – to replace the bridge without significant restriction to rail and marine traffic.
01/20-04/20	**Camp Lejeune Bridges, KIE-NAVFAC Design-Build (Preliminary Design), Camp Lejeune, North Carolina** Lead design engineer who developed the innovative bridge layout and the 134'-0" single leaf rolling bascule configuration for Onslow Beach Bridge that carries vehicular traffic during preliminary design. Mr. Medhi supervised the design and development of the biddable bridge plans, developed the analysis and design methodologies for different components of the bridge, assigned tasks to designers and detailers, and coordinated with roadway, mechanical, electrical, and architectural disciplines. Led the effort of developing the 3D model of the bridge, which was then used for interdisciplinary and contractor coordination. Assisted the project management team in responding to contractor's questions, presenting concepts to the contractors, developing preliminary cost estimate and writing technical proposal.

16. Staff Experience

Firm employed by: HNTB

Name	**Dan Appelbaum, PE**	**Years of relevant experience with this employer**	14
Title	Senior Project Engineer	**Years of relevant experience with other employer(s)**	1
Degree(s) / Years / Specialization	MS / 2003 / Mechanical Engineering BS / 2008 / Mechanical Engineering BS / 2003 / Mathematics		
Active registration number / state / expiration date	38362 / LA / 03-31-2024 54681 / AZ / 06-30-2022 89100 / FL / 02-28-2023 062069540 / IL / 11-30-2023 6201062290 / MI /03-11-2024 55788 / WA / 03-02-2023		
Year registered	LA 2013, AZ 2013, FL 2020, IL 2017, MI 2015, WA 2018	**Discipline**	Mechanical Engineering
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Movable Design/Construction/Engineering Support)		

Dan has 15 years of experience designing mechanical systems for movable bridges. He joined HNTB in 2008 and is part of the movable bridge group where he has been involved with the design, inspection and construction of various highway and railroad movable bridge 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 time specified in the applicable MPR(s).
07/17-06/18	**LADOTD Florida Avenue Electrical and Structural Repairs and Pinion Bearing Replacement, New Orleans, Louisiana** Mechanical engineer who produced construction documents on an accelerated time line to replace a damaged pinion shaft bearing for this tower drive vertical lift, carrying both highway and rail traffic over the Industrial Canal. Also performed construction inspection of the pinion shaft removal, bearing removal and replacement, and reinstallation of the pinion shaft.
04/12-08/16	**LADOTD Bayou Bienvenue Swing Bridge, St. Bernard Parish, Louisiana** Engineer of record for the design of the machinery and hydraulic systems for this new bobtail swing span for USACE. Also provided construction engineering services.
06/17-11/18	**LADOTD Ted Hickey Bascule Bridge, New Orleans, Louisiana** Lead mechanical engineer for the detailed inspection of the mechanical systems of this double leaf bascule bridge over the Inner Harbor Navigation Canal. He provided element ratings and prioritized maintenance recommendations.
03/17-01/18	**LADOTD Danziger Lift Bridge, New Orleans, Louisiana** Lead mechanical engineer for the detailed inspection of the mechanical systems for tower drive vertical lift over the Inner Harbor Navigation Canal. He provided element ratings and prioritized maintenance recommendations
06/17-11/18	**Judge Seeber (Claiborne Ave.) Lift Bridge, New Orleans, Louisiana** Lead mechanical engineer for the detailed inspection of the mechanical systems of this tower drive vertical lift bridge over the Inner Harbor Navigation Canal. Provided element ratings and prioritized maintenance recommendations.
06/17-11/18	**LADOTD LA 1 Lift Bridge, Lockport, Louisiana** Lead mechanical engineer that performed the detailed inspection of the mechanical systems for this tower drive vertical lift span over the Company Canal. He provided element ratings and prioritized maintenance recommendations.
06/17-11/18	**Judge Perez Lift Bridge, Belle Chase, Louisiana** Lead mechanical engineer for the detailed inspection of the mechanical systems for this tower drive vertical lift span over the Gulf Intracoastal Waterway. He provided element ratings and maintenance recommendations.

16. Staff Experience			
Firm employed by: WJE			
Name	**John Williams, PE**	**Years of relevant experience with this employer**	3
Title	Supervisor	**Years of relevant experience with other employer(s)**	23
Degree(s) / Years / Specialization	MS / 2003 / Mechanical Engineering BS / 2008 / Mechanical Engineering BS / 2003 / Mathematics		
Active registration number / state / expiration date	#0044300 / LA / 09-30-2022		
Year registered	LA 2020	**Discipline**	Mechanical Engineering
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Movable Design/Construction/Engineering Support) **Minimum Personnel Requirement #5**		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
07/19–Present	**Danziger Lift Span Bridge, US 90, over the Industrial Canal, New Orleans, Louisina** Senior mechanical engineer for the inspection of portions of the lift span contributing to reported operational issues, an in-depth inspection of the lift bridge machinery systems, and development of repairs to restore the bridge's long-term functionality and reliability. Assisted with the development of a unique monitoring and sensor installation plan, the installation of instrumentation and monitoring equipment, and the creation of a web-accessible reporting platform to evaluate the bridge's operations over an extended period. Lead the development of plans and specifications to address emergency failed pinion bearing repairs. Performed strain gage testing to measure span balance, implemented weight changes and air buffer repairs to improve seating of the span, and determined through testing that the span drive differentials on both towers were not functioning properly, requiring work with the manufacturer to properly adjust the associated clutches.
08/15–Present	**3rd Street Bascule Bridge over Islais Creek, San Francisco, California** Project manager and lead mechanical engineer for the design of a replacement bridge that included new span operating machinery, new span support machinery for the new leaf to be supported by the existing substructure and development of complex construction staging to address constraints for the number and duration of outages for MUNI light rail services. The project started with a detailed scoping inspection including a rating assessment of the structure, mechanical, and electrical systems that identified critical deficiencies leading to the decision to replace the bascule span superstructure in its entirety.
07/20–1/20	**St. Claude Avenue Bridge Construction Engineering Services, New Orleans, Louisiana** Project manager and senior mechanical engineer for construction engineering services on an expedited basis to assist with the replacement of the second link pins which connect the counterweight truss to the balance link. Services included balance testing, design of the counterweight support system, development of a sequence of work for supporting the structure, unloading and removing the pins, completing the repairs and restoring the bridge to service within a marine navigation closure that was controlled by repairs to the adjacent lock. Mechanical engineering services were provided on an expedited basis due to the short time-period between the award of the project and the start of the marine navigation closure.

16. Staff Experience	
10/14-07/19	**St. Peters Canal Swing Bridge Replacement, Cape Breton, NS, Canada** Project manager and engineer of record overseeing the mechanical and hydraulic machinery design for this new hydraulically operated center bearing swing bridge. Responsibilities included design and backchecking of design calculations, plans preparation and detailing, and preparation of contract specifications and construction cost estimates during design. Responsibilities during construction included coordination of a team of mechanical and electrical engineers and inspectors to review and approve construction submittals and provide complete shop and field inspection of all mechanical/electrical aspects of the rehabilitation project.
08/08-08/18	**Columbus Road Lift Bridge, Cleveland, Ohio** Senior mechanical engineer for the rehabilitation project with the objective to maintain the historic character of the structure while significantly reducing maintenance requirements and improving overall system efficiency. A scoping inspection of the mechanical machinery determined suitability for continued long-term service and compliance with current AASHTO code requirements. The new mechanical design provides for complete replacement of all span support machinery, span drive machinery, and span locks.
07/14-02/18	**Burlington Canal Lift Bridge, Hamilton, Ontario, Canada** Movable Bridge Construction Specialist and Heavy Machinery Specialist for the contractor as part of a major electrical and minor mechanical rehabilitation of this critical vertical lift bridge. The electrical scope of work included complete replacement of the electrical power and control systems for the bridge including an aerial cable installation and skew control of the lift span. The mechanical scope of work included replacement of the high-speed end of the span drive machinery (brakes, speed reducer, shaft, and couplings). The scope of work required the contractor's engineer to sign and seal all submittals including shop drawings.
03/10-11/17	**Sir Ambrose Shea Lift Bridge Replacement, Placentia, NL, Canada** Project manager and mechanical engineer of record responsible for the design of span drive machinery, span lock machinery and span support machinery for a new tower drive lift bridge. Duties included preparation and review of all relevant calculations (sized motor, gear tooth strength calculations, sized brakes, shaft calculations for moment and torsion, sized couplings, designed machinery base plates, sized span lock bars, sized span lock and lockbar actuator, performed fatigue analysis of trunnion shaft, and sized trunnion bearings), and preparation of design drawings, specifications, and cost estimates as part of design. During construction, responsibilities included review of contractor's shop drawings and procedures for conformance to contract requirements, disposition of non-conformance reports, and responding to requests for information or changes.
02/04-11/13	**Mystic Bridge Rehabilitation, Connecticut DOT, Groton, Connecticut** Project manager and senior mechanical engineer for the rehabilitation of the historic single leaf, mechanically operated Brown bascule bridge. The mechanical design included upgrades to the capacity of the span drive machinery and design of a custom vehicular safety barrier gate to rise out of the roadway to protect errant vehicles from entering the waterway with the bridge raised yet remain visually unobtrusive with the bridge seated and open to vehicular traffic. Responsibilities included design and backchecking of design calculations, plans preparation and detailing, and preparation of contract specifications and construction cost estimates.

16. Staff Experience			
Firm employed by: HNTB			
Name	**Paul Hunter, PE**	**Years of relevant experience with this employer**	10
Title	Electrical Engineer	**Years of relevant experience with other employer(s)**	19
Degree(s) / Years / Specialization	BS / 1993 / Electrical Engineering		
Active registration number / state / expiration date	#45076 / LA / 03-31-2023 #16326 / CA / 03-31-2023 #6201062332 / MI / 03-11-2024 #29901 / MO / 12-31-2022 #18692 / OK / 04-30-2024		
Year registered	LA 2020, CA 2000, MI 2015, MO 1998, OK 1998	**Discipline**	Electrical Engineering
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Movable Design/Construction/Engineering Support); Bridge Engineering Services (Roadway Lighting) **Minimum Personnel Requirement #6**		
Paul is an electrical engineer with experience in on numerous industrial, commercial, and municipal projects, performing voltage drop calculations, lighting level calculations for indoor and outdoor lighting, and fault current studies. He also has experience with programmable logic controllers, radio telemetry, and emergency generators.			

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 time specified in the applicable MPR(s).
05/17-Present	**LADOTD U.S. 90 Atchafalaya Bridge, Morgan City, Louisiana** Performed site investigation to determine existing condition for the existing navigation lights on the bridge and determine how to add additional fixtures. He developed plans to add the additional navigation lights and rehabilitation plans for the existing navigation lights This project involved adding marine navigation lighting to an existing bridge.
08/17-09/17	**LADOTD LA 70 Pierre Part Bay Bridge Rehabilitation, Pierre Part Bay, Louisiana** Inspector of the electrical systems of this hydraulic-operated swing span. He provided owner a report with a summary of findings, prioritized maintenance recommendations, and prepared repair cost estimates.
03/17-01/18	**LADOTD Danziger Lift Bridge, New Orleans, Louisiana** Lead electrical engineer for the detailed inspection of the electrical systems for tower drive vertical lift over the Inner Harbor Navigation Canal. He provided element ratings and prioritized maintenance recommendations.
06/17-03/18	**LADOTD Ted Hickey Bascule Bridge, New Orleans, Louisiana** Lead electrical engineer for the detailed inspection of the electrical systems of this double leaf bascule bridge over the Inner Harbor Navigation Canal. He provided element ratings and prioritized maintenance recommendations.
06/17-06/18	**LADOTD Judge Perez Lift Bridge, Belle Chase, Louisiana** Lead electrical engineer for the detailed inspection of the electrical systems for this tower drive vertical lift span over the Gulf Intracoastal Waterway. He provided a written report with element ratings and maintenance recommendations.

16. Staff Experience			
Firm employed by: WJE			
Name	**Gareth Rees, PE**	**Years of relevant experience with this employer**	3
Title	Principal	**Years of relevant experience with other employer(s)**	51
Degree(s) / Years / Specialization	BS / 1968 / Electrical Engineering		
Active registration number / state / expiration date	#0040754 / Louisiana / 09-30-2022		
Year registered	LA 2016	**Discipline**	Electrical Engineering
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Movable Design/Construction/Engineering Support); Bridge Engineering Services (Roadway Lighting) **Minimum Personnel Requirement #6**		

Experience dates (mm/yy–mm/yy)	**Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).**
07/19-Present	**Danziger Lift Bridge - New Orleans, Louisiana** Lead electrical engineer for the inspection of relevant portions of the main lift span contributing to reported operational issues, an in-depth inspection of the lift bridge machinery and electrical systems, and development of repairs to restore the long-term functionality and reliability of the bridge. Prepared a new lift span skew control system design after the existing Selsyn components were removed from the bridge, developed electrical controls for the clutches with the span drive differentials, and provided recommendations for rehabilitation of the bridge.
08/15-Present	**3rd Street Bascule Bridge over Islais Creek, San Francisco, California** Senior electrical engineer for the design of a replacement bridge that included the design of new electrical power and control systems to be integrated with the MUNI light rail traction power and signal system.
03/20-12/20	**Skew Detection System Replacement on Vertical Lift Bridges, Louisiana** Principal investigator to review alternatives for skew control, monitoring, and indication for tower drive vertical lift bridges based on effective management of skew and minimizing advanced electronic equipment. The study included a literature review, interviews with current owners and maintainers of vertical lift bridges, and interviews with industry control specialists experienced in skew control systems. As a result of the study, a preferred system of skew control that combines the use of direct skew measurement with an inclinometer for skew monitoring and trip indication, and indirect measurement of skew using encoders for controlling skew during operation was recommended. To minimize maintenance, mean-time-to-repair, and to limit dependency on PLC systems, it was recommended that control integration be achieved using SMART relays (that contain self-diagnostics) that may easily be replaced in the event of an issue.
03/18-02/20	**Charles Berry (Erie Ave) - Lorain 6 Bascule Bridge Rehabilitation, Lorain, Ohio** Movable bridge project coordinator for the rehabilitation of the operating and support systems for this historic double leaf deck truss bascule bridge including complete replacement of the drive machinery and electrical power and controls control systems. Services included review, coordination and integration of the mechanical, electrical, and structural systems, review of all shop drawings for fit-up and constructability; shop inspection of critical components; field oversight during construction for critical assemblies; verification of final alignment of machinery; shop and field acceptance testing of the electrical system installation, commissioning of the installed operating systems, strain gage operational testing and power recordings to confirm satisfactory performance of the newly installed systems, and development of the Operations and Maintenance Manual.

16. Staff Experience	
04/13-10/19	**Fort Madison Toll Bridge, Fort Madison, Iowa** Engineer of record and project manager for the rehabilitation of this double decker swing span bridge. The first phase was the design of a new aerial and submarine power cable installation, the new installation to be configured as redundant power sources. The design of the submarine cable installation included surveying of the existing submarine cable, routing of the new cable, and designing and specifying the cable. The work also included excavation requirements and developing an approved trenching system. The design and contract documents were developed based on staged construction to satisfy marine, railroad, and highway operations as well as Coast Guard and emergency services with respect to bridge operating outages. Construction services were also performed.
03/10-11/17	**Sir Ambrose Shea Lift Bridge, Placentia, NL, Canada** Engineer of record for the design of a replacement tower drive vertical lift bridge with two duty motors and brakes in each tower and two sets of span locks. The bridge operator's control house is located at roadway level and remote from the bridge with CCTV surveillance and fiber optic communications to the towers. The PCL-based control system was designed with Hot standby redundant PLC's, a human machine interface (HMI), and control console and a redundant fiber optic communications transmission backbone. The electric services are distributed to state-of-the-art intelligent MCC's in each of the bridge towers and have internal communications capabilities and interface directly with the bridge control system PLC for bridge operation, drive monitoring, and data acquisition.
06/14-06/16	**East Roundbunch Road over Cow Bayou, Orange County, Texas** Lead electrical engineer responsible for designing new drives, controls, and field devices for the span drive machinery and the end wedge machinery as part of a rehabilitation of this historic structure to provide long-term reliable service. Span drive machinery was comprised of components with a proven history of utilization on movable bridges and was powered by an electric motor. Design and integration of new traffic control features, bridge and maintenance lighting, and a CCTV system were also included.
01/14-12/14	**Haystack Bascule Bridge over Petaluma River, Petaluma, California** Engineer of record and lead electrical engineer for the relocation, rehabilitation, and reassembly of a single leaf rolling lift bascule railroad bridge. The designed bridge electrical systems consist of modern PLC logic control and flux vector variable frequency drives. The electric service and standby generator for bridge back-up power are located on one side of the navigable channel with the bridge operating system on the other. An under-channel installation was developed to connect the electric service equipment and associated communications to the bridge operating system. The system design included communications, fire life safety system design as well as the integration of the bridge operating system with the railroad train control.
10/10-02/12	**Port Severn Swing Bridge 60 Rehabilitation, Port Severn, ON, Canada** Lead electrical engineer for a bridge inspection, condition survey, engineering analysis and preparation of plans, specifications, and cost estimate.

16. Staff Experience			
Firm employed by: HNTB			
Name	**Jesse Miguel, AIA, RA, NCARB, ENV SP**	**Years of relevant experience with this employer**	36
Title	Senior Bridge Architect	**Years of relevant experience with other employer(s)**	3
Degree(s) / Years / Specialization	M. Arch / 1986 / Architecture BA / 1982 / Architecture		
Active registration number / state / expiration date	RA: #8222 / LA / 12-31-2022 #7896 / MA / 08-31-2022 #007650 / MO / 12-31-2022 #12160 / WA / 02-19-2023		
Year registered	LA 2015, MA 1989, MO 1996, WA 2017	**Discipline**	Architecture
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Bridge Architecture and Aesthetics)		
Jesse is a registered architect with professional design experience on transportation projects, including bridges, highways, transit, as well as architectural, planning and federal projects. He serves as senior bridge architect in HNTB's Kansas City office and is HNTB's national bridge practice leader on Bridge Architecture. Previously, he was the visualization team leader for HNTB's technology office, and was the project designer and architectural CADD coordinator for HNTB's Boston office.			

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 time specified in the applicable MPR(s).
09/19-10/19	**LADOTD I-10 & I-12 College Drive Flyover Ramps, Baton Rouge, Louisiana** Created 3D visualizations of the for the LADOTD, illustrating two alignments with views from I-12, from adjacent significant residential developments, and an overall aerial plan view to see impacts of the flyover options designed with a visual screening wall. The renderings were presented at a public hearing to see the impacts of the flyover bridges to their neighborhood and concerns of the proximity and height of the flyovers with their visual screening wall.
08/18-08/18	**LADOTD Metarie Pedestrian Bridge, New Orleans, Louisiana** Designed concepts for a proposed pedestrian over I-10 in Jefferson Parish section of New Orleans, selected to develop feasibility studies for this new pedestrian bridge.
10/08-07/09	**LADOTD Huey P. Long Bridge Widening, New Orleans, Louisiana** Directed and created the 3D modeling and animation for the est. $982 million Huey P. Long Bridge in New Orleans, illustrating the animation sequence of a bridge widening and deck replacement, illustrating the lifting of the truss spans from the barges, stick built sequences, and the crane movement for installing secondary members.
09/14-Present	**Norwalk River Bridge Replacement, Norwalk, Connecticut** Bridge architect of record for the replacement of an existing 100-year old four-track swing span bridge (part of the New Haven commuter line), to a new movable bridge. Currently under design selection of a preferred movable alternative. He is responsible for bridge aesthetics, visualization including programming, and design of the operator control house.
01/06-04/06	**Fort Polk Combined Arms Collective Training Facility, Fort Polk, Louisiana** Architect who directed and created a 3D visualization model of a proposed military training facility that will be used for simulated combat warfare exercises. The final deliverable will be a real-time computer simulation of the proposed facility design.

16. Staff Experience

Firm employed by: HNTB

Name	**Travis Konda, PhD, PE, SE, CCM**	**Years of relevant experience with this employer**	17
Title	Principal Engineer	**Years of relevant experience with other employer(s)**	1
Degree(s) / Years / Specialization	PhD / Civil Engineering / 2004 MS / Civil Engineering / 2001 BS / Civil Engineering / 1998		
Active registration number / state / expiration date	PE: #48851 / Minnesota / 06-30-2022; #2009001100 / Missouri / 12-31-2023 ; #E15260 / Nebraska / 12-31-2023 SE: #081007914 / Illinois / 11-30-2022		
Year registered	PE: IA 2016, MN 2011, MO 2009, NE 2014 SE: IL 2016, NE 2014	**Discipline**	
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Accelerated Bridge Construction)		

Travis is a principal bridge engineer with a unique combination of construction, design and project delivery experience. Drawing upon his extensive background in structural engineering, Travis provides technical expertise – and solutions that save time and money – when reviewing complex construction plans, including shop drawings, falsework and erection plans. He takes a proactive, hands-on role in the field to represent the interests of the owner when coordinating with contractors. He has also served as a design engineer on a wide range of challenging projects, including design of five arch bridges, two cable-stay bridges, multiple concrete girder structures, including post-tensioned box girders, pre-stress girders and complex curved and skewed steel plate girders. Travis currently serves as the chair of the Transportation Research Board Committee AFH40 – Construction of Bridges and Structures, where he leads a group of 26 volunteer members experienced in bridge design, fabrication and construction to identify research needs and attempt to secure support to investigate such items. Travis also serves as the Accelerated Bridge Construction (ABC) committee chairperson for HNTB's national bridge practice.

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 time specified in the applicable MPR(s).**
03/20-11/21	**Route 120 Bridge over Pimmit Run ABC Implementation, Arlington County, Virginia** Structural engineer who performed a constructability review for the superstructure replacement of a three-span steel beam bridge using ABC techniques. As part of the review, Travis looked at the planned sequence, conflicts and revised several details to reduce the overall construction effort.
11/12-03/17	**Franklin Avenue Bridge Rehabilitation, Minneapolis, Minnesota** HNTB's project construction engineer who served as an extension of Hennepin County oversight staff for the major rehabilitation of this historic concrete deck arch bridge originally constructed in 1923. Travis collaborated with the owner and contractor to develop the erection and falsework plans and the ABC schedule. He worked with fabricators to resolve geometric discrepancies in the shop drawings. During the 116-day ABC period, Travis inspected the ongoing work, including deck removal and replacement operations and solved unforeseen design conflicts. He proactively addressed and solved field-related discrepancies to keep the project on schedule and minimize delays and change orders. The Franklin Avenue Bridge rehabilitation was named 2016 Project of the Year by the American Public Works Association - Minnesota Section.

16. Staff Experience			
Firm employed by: HNTB			
Name	**Travis Honore, EI**	**Years of relevant experience with this employer**	>1
Title	Engineer II	**Years of relevant experience with other employer(s)**	3
Degree(s) / Years / Specialization	MS / 2019 / Civil Engineering BS / 2017 / Civil Engineering		
Active registration number / state / expiration date	#0034017 / LA / 09-30-2023		
Year registered	LA 2019	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (As-Designed, As-Built & Condition Ratings)		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
06/16 - 12/16	**Horace Wilkinson Bridge Inspection, Baton Rouge, Louisiana** Engineer responsible for evaluating damage, deterioration and basic bridge conditions to ensure public safety. Other tasks included analyzing and reviewing plans, survey reports, maps and other data in order to verify correctness and quality control.
01/19 - 02/22	**Load Rating of 176 & 311 Bridges, Louisiana** Engineer who created structural system models and performed an analysis of complex and non-complex bridges to determine loads and estimated capacity of members from the superstructure and substructure.
01/19 - 02/22	**Load Testing of Five Bridges, Cameron Parish, Louisiana** Engineer who conducted load tests by placing sensors on many positions, both on top and under bridges, to identify approximate strain results after trucks maneuvered across the bridge in order to provide an accurate result of member capacity.
04/20 - 02/22	**Macarthur Interchange Completion Phase II, Jefferson Parish, Louisiana** Engineer who developed demolition and construction phasing plans to show the phases for the removal of old structures and the construction of new structures. Designed the reinforcement of the bridge deck using AASHTO LRFD Bridge Design Specifications, and I developed plans for the deck reinforcement also. I calculated the quantities of steel reinforcement as well as concrete for new ramps structures.
06/21 - 08/21	**Mermentau River Bridge Rehab, Cameron Parish, Louisiana** Engineer who designed member rehabilitation using software such as AASHTOWARE BrR. Developed plans for both member rehabilitation and other general bridge repair

16. Staff Experience

Firm employed by: HNTB

Name	**Patrick Roth, PE**	**Years of relevant experience with this employer**	10
Title	Structural Engineer	**Years of relevant experience with other employer(s)**	4
Degree(s) / Years / Specialization	BS / 2008 / Civil Engineering		
Active registration number / state / expiration date	#41553 / LA / 09-30-2023 #28132 / MS / 12-31-2022 #136722 / TX / 09-30-2022		
Year registered	LA 2017, MS 2017, TX 2019	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Bridge/Structural Inspection & Evaluation of Existing Bridges)		

Patrick is a NHI/FHWA certified bridge inspector in HNTB's bridge group and brings 11 years of structural and bridge engineering experience includes the inspection, analysis and rehabilitation of existing structures as well as design of new bridge, highway and flood control structures. He is also experienced in construction management and has provided on-site services for bridge construction projects. As project manager and lead inspection team leader, Mr. Roth is responsible for planning, scheduling all personnel and equipment, coordination with multiple agencies, and managing multiple teams in the field to ensure completion of the project with high quality, on time, on budget, to the client's satisfaction.

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 time specified in the applicable MPR(s).
06/17-Present	**LADOTD US 90 Atchafalaya River Bridge Rehab, Morgan City, Louisiana** On-site project engineer performing CE&I services for this bridge rehabilitation project. He was a certified team leader for the NBIS In-depth inspection of this bridge and assisted in the development of the rehabilitation plans. His duties as project engineer included answering RFIs, reviewing shop drawings and all contractor submittals, inspection of all structural construction activities, final acceptance inspection, QA, assisting DOT PM with close out documentation.
08/18-05/20	**Urban System Roadway Rehabilitation Program – Morrison Road I & II, Inspection and Rehabilitation of Five Bridges, New Orleans, Louisiana** Lead for the condition assessment for five bridges located in the Morrison Road I & II project site. The condition assessment included a summary of major deficiencies, rehabilitation recommendations, and opinion of probable cost. After presenting the assessment and recommendations to the N.O. DPW, HNTB was awarded the task of developing the rehabilitating plans for the five bridges. Two of the five bridges will be replaced with a new bridge and repairs on the three other bridges include: epoxy overlay, joint seal replacement, timber pile repairs, replacing bridge rails and structural concrete patching.
07/17-06/18	**Florida Avenue Electrical and Structural Repairs and Pinion Bearing Replacement, New Orleans, Louisiana** Project engineer performing CE&I duties for the rehabilitation of the Florida Avenue vertical lift bridge. The bridge carries vehicular and rail traffic over the Inner Harbor Navigation Canal. The electrical and structural repairs were required to fix damages caused by Hurricane Katrina and an unrelated vessel impact. His duties included tracking all construction progress and approving payments for work completed, change order approvals, RFIs, presents bolt testing, approving all materials met the specification requirements, and assisting in final closeout of the project.
11/17-03/18	**LADOTD NBIS In-Depth Inspection of the LA 23 Judge Perez Bridge, Belle Chasse, Louisiana** Project manager/team leader in the 2017 in-depth inspection of this Vertical Lift Bridge crossing the Intracoastal Waterway. His duties included planning inspection, scheduling all personnel and equipment and managing multiple teams in the field. Fracture critical members were inspected by him as part of this work. He was responsible for development of the InspectTech element level report and In-depth inspection report.

16. Staff Experience			
Firm employed by: moffatt & nichol			
Name	**Chace Hulon, PE, ADCI**	**Years of relevant experience with this employer**	8
Title	Program Manager and NBIS Team Leader	**Years of relevant experience with other employer(s)**	9
Degree(s) / Years / Specialization	BS / 2005 / Civil Engineering		
Active registration number / state / expiration date	#39701 / LA / 09-30-2023		
Year registered	LA 2009	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Underwater 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 time specified in the applicable MPR(s).
11/19-Present	**LADOTD IDIQ for In-Depth Inspection of Complex Bridges, Statewide, Louisiana** Project manager and team leader for one of the current five-year retainer contracts as a major subconsultant to HNTB, contracted to perform in-depth bridge inspections on complex, signature, long-span bridges throughout Louisiana. Performed the inspections of both cable-stayed bridges in Louisiana (Audubon and Luling) with rope access techniques to inspect a total of 208 cables between the two bridges, their Gensui Dampers, and anchorages. Performed the inspection of the I-10 Horace Wilkinson Bridge completely utilizing rope access techniques and rolling lane closures to greatly minimize traffic impacts. Performed a supplemental inspection of the GNO Cantilever Truss Bridges in New Orleans utilizing rope access techniques. Performed a fracture critical inspection of the Green Bridge, a steel tied arch in New Orleans utilizing rope access and UAS access techniques. Performed the inspection of the I-10 Bridge over the Calcasieu River in Lake Charles utilizing rope access on FCM's and UAS access techniques on columns. Hands-on management and implementation of the QC review plan is vital to the continued success of this project.
1/20-Present	**LADOTD IDIQ for Statewide In-Depth Bridge Inspection of Complex Structures, Louisiana** Project Manager and Team Leader for one of the current five-year retainer contracts as a major subconsultant to Gresham Smith, contracted to perform in-depth bridge inspections on complex, movable, long-span, and precast segmental box girder bridges throughout Louisiana. Performed and lead the structural, mechanical, and electrical inspections of six (6) movable bridges utilizing detailed, nondestructive and laboratory testing methods with hand sketches. Hands-on management and implementation of the QC review plan is vital to the continued success of this project.
09/14-Present	**LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana** Project director and team leader for the third cycle of contracts in which we have performed 1,375 underwater NBIS bridge inspections statewide. Bridge types included movable bridges, long-span bridges with caissons and deep foundations, timber bridges with multiple bents in the water, culverts and multi-span bridges up to 14 miles in length. Assisted DOTD with several emergency response requests within hours utilizing local team members.
02/21-Present	**LADOTD Underwater Bridge Inspections (2020-2025) - Task 1, Statewide, Lousiana** Project principal for routine underwater inspections of 75 bridges including major bridges over large waterways with deep foundations and dynamic channel conditions. All diving inspections were augmented with acoustic imaging technology for bridges over large waterways with high-risk environmental conditions. Hydrographic surveys were performed using the HydroLite-TM and MatLab for accurate and repeatable channel soundings at these bridge sites

16. Staff Experience			
Firm employed by: moffatt & nichol			
Name	**Steven Armstrong, PE, ADCI**	**Years of relevant experience with this employer**	8
Title	NBIS Team Leader	**Years of relevant experience with other employer(s)**	2
Degree(s) / Years / Specialization	MS / 2021 / Civil Engineering BS / 2015 / Civil and Environmental Engineering		
Active registration number / state / expiration date	#44405 / LA / 09-30-22		
Year registered	LA 2020	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Underwater 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 time specified in the applicable MPR(s).**
11/19–Present	**LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana** Team member for one of the current five-year retainer contracts as a major subconsultant to HNTB, contracted to perform in-depth bridge inspections on complex, signature, long-span bridges throughout Louisiana. Performed the inspections of the Audubon cable-stayed bridge with rope access techniques to inspect a total of 136 cables, the HDPE protection, and anchorages. Performed the inspection of the I-10 Horace Wilkinson Bridge (New Bridge) completely utilizing rope access techniques and rolling lane closures to greatly minimize traffic impacts. Performed draft inputs and consolidated notes from multiple teams to present proper data consistently throughout the report.
1/20–Present	**LADOTD IDIQ for Statewide In-Depth Bridge Inspection of Complex Structures, Louisiana** Team member for one of the current five-year retainer contracts as a major subconsultant to Gresham Smith, contracted to perform in-depth bridge inspections on complex, movable, long-span, and precast segmental box girder bridges throughout Louisiana. Performed the structural inspections of six (6) movable bridges along with the M&E team. Utilized nondestructive UT methods to accurately document section loss in fracture critical members. Performed draft inputs and consolidated notes from multiple teams to present proper data consistently throughout the report.
09/14–Present	**LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana** NBIS team leader for the current five-year retainer contract to perform Levels I, II, and III underwater bridge inspections in accordance with NBIS and AASHTO Manual for Bridge Element Inspection. Responsible for leading underwater inspection teams to complete field work, inspection reports, and quality control reviews. Bridge types inspected consisted of movable bridges, truss bridges, timber stringer bridges, cable-stayed bridges, and single and multi-span girder bridges up to fourteen miles in length. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions.

16. Staff Experience			
Firm employed by: moffatt & nichol			
Name	**Jeffrey Gazarek, ADCI**	**Years of relevant experience with this employer**	6
Title	NBIS Team Leader and Safety Officer	**Years of relevant experience with other employer(s)**	10
Degree(s) / Years / Specialization	Commercial Diving with Concentration in Subsea Inspection / 2005 / Divers Institute of Technology		
Active registration number / state / expiration date	N/A		
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Underwater 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 time specified in the applicable MPR(s).
09/14-Present	**LADOTD IDIQ for Underwater Bridge Inspection, Statewide, Louisiana** NBIS team leader for the third cycle of contracts in which we have performed 1,375 underwater bridge inspections statewide. Responsible for leading dive operations for underwater inspection teams to complete field work, writing inspection reports, and performing quality control reviews. Bridge types inspected consisted of movable bridges, truss bridges, timber stringer bridges, cable-stayed bridges, and single and multi-span girder bridges up to fourteen miles in length. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions.
04/16-Present	**LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana** Team leader and rope access supervisor for both five-year retainer contracts. Performed ~40% of 1700 sign truss inspections throughout Louisiana. Utilized fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on all anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state.
11/14-Present	**MDOT 2014 & 2021 Underwater Bridge Inspection Contract, Districts 1 & 2, Mississippi** NBIS bridge inspector performed underwater inspections of 12 bridges in accordance with NBIS and MDOT PONTIS Inspection Manual. Bridges inspected were constructed of concrete, steel, and timber, and high-resolution scanning sonar was used on selected bridge elements. Responsible for pre-inspection planning, scheduling, field work, performing NDT and soundings, diving operations, drafting reports, sketches, and repair recommendations.
11/19-Present	**LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana** Team member for one of the current five-year retainer contracts as a major subconsultant to HNTB, contracted to perform in-depth bridge inspections on complex, signature, long-span bridges throughout Louisiana. Performed the inspection of the I-10 Horace Wilkinson Bridge (New Bridge) completely utilizing rope access techniques and rolling lane closures to greatly minimize traffic impacts.

16. Staff Experience			
Firm employed by: moffatt & nichol			
Name	**Joshua Martinez, PE, ADCI**	**Years of relevant experience with this employer**	7
Title		**Years of relevant experience with other employer(s)**	5
Degree(s) / Years / Specialization	MCE / 2013 / Structural Engineering BCE / 2009 / Structural Engineering		
Active registration number / state / expiration date	#42085 / LA / 03-31-2022		
Year registered	LA 2013	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Underwater 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 time specified in the applicable MPR(s).
06/17–Present	**LADOTD IDIQ for NBIS Underwater Bridge Inspection Retainer Contract, Statewide, Louisiana** NBIS team leader for the current five-year retainer contract to perform Levels I, II, and III underwater bridge inspections in accordance with NBIS and AASHTO Manual for Bridge Element Inspection. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions. Responsible for leading underwater inspection teams to complete field work, inspection reports, and quality control reviews.
09/13–06/17	**LADOTD 2013 NBIS Underwater Bridge Inspection Retainer Contract, Statewide, Louisiana** NBIS inspector for the previous five-year retainer contract to perform Levels I, II, and III underwater bridge inspections in accordance with NBIS and AASHTO Manual for Bridge Element Inspection. Responsible for underwater inspection field work, inspection reports, and quality control reviews. UAI techniques were utilized to locate structural deficiencies, identify potential undermining, observe the limits of scour, and document the limits of riprap installations.
03/17–Current	**Statewide Topside Inspection of Bridges for the North Carolina Department of Transportation, North Carolina** NBIS team leader responsible for topside inspection of bridges under two, consecutive, multi-year, on-call contracts. Inspected single and multi-span bridges as well as concrete, steel, and timber. Mr. Martinez was responsible for rating the overall bridge condition and determining critical maintenance items per state requirements. He also developed and generated reports rating to the element base level. Mr. Martinez familiarized himself with several inspection vehicles including a bucket truck, snooper, and under-bridge platform. He served as engineer reviewer for reports to ensure accuracy and proper rating per National Highway Institute (NHI) guidance.

16. Staff Experience			
Firm employed by: moffatt & nichol			
Name	**Charles Balzarini, PE**	**Years of relevant experience with this employer**	9
Title	NBIS Team Leader and Diver	**Years of relevant experience with other employer(s)**	7
Degree(s) / Years / Specialization	BS / 2008 / Civil Engineering		
Active registration number / state / expiration date	#13854 / AK / 12-31-2023		
Year registered	AK 2013	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Underwater 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 time specified in the applicable MPR(s).
06/17 – Present	**LADOTD IDIQ for NBIS Underwater Bridge Inspection Retainer Contract, Statewide, Louisiana** NBIS team leader for the current five-year retainer contract to perform Levels I, II, and III underwater bridge inspections in accordance with NBIS and AASHTO Manual for Bridge Element Inspection. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions. Responsible for leading underwater inspection teams to complete field work, inspection reports, and quality control reviews.
11/19 – Present	**LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana** NBIS team leader for one of the current five-year retainer contracts as a major subconsultant to HNTB, contracted to perform in-depth bridge inspections on complex, signature, long-span bridges throughout Louisiana. Performed the inspections of the Luling cable-stayed bridge in New Orleans with rope access techniques to inspect a total of 72 cables between the two bridges, their Gensui Dampers, and anchorages. Performed the inspection of the I-10 Horace Wilkinson Bridge completely utilizing rope access techniques and rolling lane closures to greatly minimize traffic impacts. Performed a supplemental inspection of the GNO Cantilever Truss Bridges in New Orleans utilizing rope access techniques. Performed a fracture critical inspection of the Green Bridge, a steel tied arch in New Orleans utilizing rope access and UAS access techniques.
04/16 – Present	**LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana** Team leader for both five-year retainer contracts to perform approximately 40% 1700 sign truss inspections throughout Louisiana. Utilized the fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on all anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Hands-on inspection work was performed overhead by bucket truck and climbing on active highways. Aluminum and steel sign truss members were inspected for inventory and for structural defects in accordance with FHWA guidelines. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state.

16. Staff Experience			
Firm employed by: moffatt & nichol			
Name	**Matthew Balzarini, PE**	**Years of relevant experience with this employer**	5
Title	NBIS Team Leader and Diver	**Years of relevant experience with other employer(s)**	4
Degree(s) / Years / Specialization	BS / 2011 / Civil Engineering		
Active registration number / state / expiration date	#118893 / AK / 12-31-2023		
Year registered	AK 2017	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Bridge Engineering Services (Underwater 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 time specified in the applicable MPR(s).
11/19-Present	**LADOTD IDIQ for Statewide In-Depth Bridge Inspection, Louisiana** NBIS team leader and team member for one of the current five-year retainer contracts as a major subconsultant to HNTB, contracted to perform in-depth bridge inspections on complex, signature, long-span bridges throughout Louisiana. Performed the inspections of both cable-stayed bridges in Louisiana (Audubon and Luling) with rope access techniques to inspect a total of 208 cables between the two bridges, their Gensui Dampers, and anchorages. Performed the inspection of the I-10 Horace Wilkinson Bridge completely utilizing rope access techniques and rolling lane closures to greatly minimize traffic impacts. Performed a supplemental inspection of the GNO Cantilever Truss Bridges in New Orleans utilizing rope access techniques. Performed a fracture critical inspection of the Green Bridge, a steel tied arch in New Orleans utilizing rope access and UAS access techniques. Performed the inspection of the I-10 Bridge over the Calcasieu River in Lake Charles utilizing rope access on FCM's and UAS access techniques on columns
06/18-Present	**LADOTD IDIQ for NBIS Underwater Bridge Inspection Retainer Contract, Statewide, Louisiana** NBIS team leader and team member for the current five-year retainer contract to perform Levels I, II, and III underwater bridge inspections in accordance with NBIS and AASHTO Manual for Bridge Element Inspection. Site conditions included salt and fresh waters, with varying levels of current, having low to no visibility. UAI techniques were utilized to locate structural deficiencies and identify bottom conditions. Responsible for leading underwater inspection teams to complete field work, inspection reports, and quality control reviews.
07/18-Present	**LADOTD IDIQ for Statewide Ancillary Sign Inventory and Inspection, Louisiana** Team leader for both five-year retainer contracts to perform approximately 10% 1700 sign truss inspections throughout Louisiana. Utilized the fall protection and rope access techniques with rescue plan development. Performed non-destructive testing on all anchor rods at all cantilever structures, base plates with excessive standoff distances, and where deficiencies or impacts were observed at steel and aluminum welds. Drafted and reviewed inspection reports per the quality management plan. Monitored the TTC lane closures and reviewed the TTC plans for over 10 lane closures throughout the state.

16. Staff Experience			
Firm employed by: WJE			
Name	**Jonathan McGormley, PE**	**Years of relevant experience with this employer**	28
Title	Principal	**Years of relevant experience with other employer(s)**	1
Degree(s) / Years / Specialization	MS / 1994 / Civil Engineering, BS / 1992 / Civil Engineering		
Active registration number / state / expiration date	#43912 / Louisiana / 03-31-2024 NBIS Certified Team Leader and Program Manager NHI 130078 - Fracture Critical Inspection Techniques of Steel Bridges NHI 130055 - Safety Inspection of In-Service Bridges (& Refresher 130053) ATSSA Traffic Control Technician Training/ TC Supervisor Training		
Year registered	LA 2019	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Sampling, Instrument, Non-Destructive Testing (Bridge Instrumentation Non-Destructive 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 time specified in the applicable MPR(s).**
07/19–Present	**Danziger Lift Span Bridge, U.S. 90, over the Industrial Canal, New Orleans, Louisiana** Project manager responsible for overseeing the inspection of portions of the lift span contributing to reported operational issues, an in-depth inspection of the lift bridge machinery and electrical systems, and development of repairs to restore the bridge's long-term functionality and reliability. Oversaw the development of a unique monitoring and sensor installation plan, the installation of instrumentation and monitoring equipment, and the creation of a web-accessible reporting platform to evaluate the bridge's operations over an extended period. Assisted with development of plans and specifications to address emergency repairs including the installation of polyester polymer concrete lift span orthotropic deck overlay repairs, replacement of failed pinion bearings, elimination of lift span-to-approach span contact issues, and the improvement of the lift span seating by counterweight movements and air buffer repairs. Bridge monitoring is ongoing.
05/19–08/19; 08/20–Present	**I-255 Jefferson Barracks Bridge over the Mississippi River, Emergency Repairs, Mehlville, Missouri** Project manager responsible for emergency repairs and subsequent rehabilitation repair design. Following the discovery of a 6-foot-long crack in the steel tie girder during a fracture critical inspection, performed an in-depth inspection of similar details, obtained material samples for laboratory testing, coordinated emergency repairs, oversaw repair installation, and prepared investigation report. Completed bridge rehabilitation plans for the twin, tied-arch structures with construction ongoing.
03/21–Present	**Luling Bridge Deck Overlay Repair Consultation, St. Charles Parish, Louisiana** Project manager responsible for revising the project specifications and providing quality control assistance for the repair of an orthotropic deck overlay system comprising and epoxy underlayment with a SFRC overlay on the cable-stayed spans. Installed a long-term monitoring system to evaluate the performance of the overlay repairs.
02/19–Present	**U.S. 90 over Bayou Ramos, St. Mary Parish, Louisiana** Project manager leading the investigation of delayed end cracking of precast, prestressed concrete (PPC) girders. The project includes the evaluation of previously collected monitoring data, development of a detailed finite element model to examine crack initiation and repair options, inspection of existing retrofits, laboratory testing of CFRP repairs, and development of a trial retrofit program.

16. Staff Experience			
Firm employed by: WJE			
Name	**Steven Lauer, PE**	**Years of relevant experience with this employer**	11
Title	Supervisor	**Years of relevant experience with other employer(s)**	0
Degree(s) / Years / Specialization	BS / 2009 / Civil Engineering MS / 2010 / Civil Engineering		
Active registration number / state / expiration date	PE: #062-068057 / Illinois / 11-30-2023 SE: #081-007838 / Illinois / 11-30-2022 NBIS Certified Team Leader/Program Manager NHI 130078 - Fracture Critical Inspection Techniques of Steel Bridges NHI 130055 - Safety Inspection of In-Service Bridges (& Refresher 130053) Society of Professional Rope Technicians/ Level I Transportation Worker Identification Credential (TWIC) Indiana Bridge Load Rating Engineer, IN000551-2022-ATL-F-LRE		
Year registered	PE: IL 2015 SE: IL 2016	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Sampling, Instrument, Non-Destructive Testing (Bridge Instrumentation Non-Destructive 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 time specified in the applicable MPR(s).**
07/19-Present	**Danziger Lift Span Bridge, U.S. 90, over the Industrial Canal, New Orleans, Louisiana** Project engineer assisting in the development of a unique monitoring and sensor installation plan, the installation of instrumentation and monitoring equipment, and the creation of a web-accessible reporting platform to evaluate the bridge's operations over time. The monitoring was designed to assess bridge span lift operations and included laser distance devices, linear potentiometers, strain gages, temperature measurements, ultrasonic distance measurements, and Wi-Fi cameras.
02/22-Present	**Luling Bridge Deck Overlay Repair Consultation, St. Charles Parish, Louisiana** Project engineer assisting with the development of a long-term monitoring system to evaluate the performance of the repairs the orthotropic deck overlay system comprising and epoxy underlayment with a SFRC overlay on the cable-stayed spans.
01/21-Present	**Washington Ave Bridge over the Mississippi River, Minneapolis, Minnesota** Project engineer responsible for finite element modeling of the bridge structure, load rating, and the design and installation of the instrumentation system capable of recording strain, displacement, rotation, and temperature. Various scan rates record structure behavior during daily and long-term thermal cycles and live load events. The double-deck bridge has a pedestrian level, and the vehicular level was retrofitted to include light rail transit by adding trusses between the original girders and now has bearing seat distress.
08/21-Present	**Blackhawk Bridge Carrying Iowa 9 over the Mississippi River, Lansing, Iowa** Project Manager responsible for the wireless pier monitoring instrumentation system. Data is remotely accessed and presented on a website for the owner. This work followed our routine, in-depth, element-level, fracture critical, inspections that included ultrasonic testing (UT) of pins for the three truss spans and approach spans. An inspection report and repair recommendations were developed.
06/21-04/22	**SR 62 over Pigeon Creek, Evansville, Indiana** Project engineer responsible for bearing pad inspection and corresponding instrumentation system designed to aid in determining the cause of walking elastomeric bearings.

16. Staff Experience			
Firm employed by: WJE			
Name	**Mohamed ElBatanouny, PhD, PE, SE**	**Years of relevant experience with this employer**	7
Title	Supervisor	**Years of relevant experience with other employer(s)**	5
Degree(s) / Years / Specialization	BS / 2008 / Civil Engineering MS / 2010 / Civil Engineering PhD / 2012 / Civil Engineering		
Active registration number / state / expiration date	PE: #24910 / Iowa / 12-31-2023; #11805073-2202/ Utah / 03-31-2023; #48217 - 6/ Wisconsin / 07-31-2022 SE: #081.008166/ Illinois / 11-00-2022		
Year registered	PE: IA 2018, UT 2020, WI 2018 SE: IL 2018	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Sampling, Instrument, Non-Destructive Testing (Bridge Instrumentation Non-Destructive 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 time specified in the applicable MPR(s).
04/19-Present	**Performance Evaluation of Polyester Polymer Concrete Overlays,Various Locations, Iowa** Project manager responsible for inspection and condition documentation of two bridge decks using visual inspection, GPR, half-cell potential, impact echo, sounding, and material testing. The project included construction observation, assistance, and acceptance testing (rebound hammer and pull-off testing) during installation of the first polyester polymer overlays on Iowa DOT bridges. Follow-up inspections, every two years, and service life analysis are also being completed.
01/21-Present	**Condition Assessment of Approach Slabs, Various Locations, South Dakota** Project manager responsible for inspection and condition documentation of 15 bridge approach slabs using visual inspection, GPR, and elevation surveys. Also included is an assessment of differential settlement at the approach slabs.
07/19-Present	**Danziger Lift Span Bridge, U.S. 90, over the Industrial Canal, New Orleans, Louisiana** Project engineer assisting in the development of a unique monitoring and sensor installation plan, the installation of instrumentation and monitoring equipment, and the creation of a web-accessible reporting platform to evaluate the bridge's operations over time. The monitoring was designed to assess bridge span lift operations and included laser distance devices, linear potentiometers, strain gages, temperature measurements, ultrasonic distance measurements, and WiFi cameras. Assisted with the development of specifications for the installation of polyester polymer concrete lift span orthotropic deck overlay repairs.
03/21-Present	**Luling Bridge Deck Overlay Repair Consultation, St. Charles Parish, Louisiana** Project engineer responsible for providing quality control assistance for the repair of an orthotropic deck overlay system comprising and epoxy underlayment with a SFRC overlay on the cable-stayed spans. Developed and installed a long-term monitoring system to evaluate the performance of the overlay repairs.
06/21 - 08/21	**Nondestructive Evaluation of Industrial Equipment Foundation, Various Location, Indiana** Project manager responsible for inspection and condition documentation of industrial equipment foundations to detect voiding condition using NDT methods including ultrasonic pulse velocity (UPV) and ultrasonic shear-wave tomography.
09/16 -12/21	**James K. Polk Building, Nashville, Tennessee** Project manager responsible for the long-term acoustic emission and vibration monitoring of post-tension wire breaks.

16. Staff Experience			
Firm employed by: WJE			
Name	**Curtis Schroeder, PhD, PE, SE**	**Years of relevant experience with this employer**	3
Title	Engineer	**Years of relevant experience with other employer(s)**	8
Degree(s) / Years / Specialization	BS / 2009 / Civil Engineering MS / 2011 / Civil Engineering PhD / 2018 / Civil Engineering		
Active registration number / state / expiration date	PE: 44013 / Wisonsin / 07-00-2022 SE: 081.008638 / Illinois / 11-00-022; NHI 130078 - Fracture Critical Inspection Techniques of Steel Bridges NHI 130055 - Safety Inspection of In-Service Bridges (& Refresher 130053) AWS Certified Welding Inspector NDT Ultrasonic Technician - Level II NDT Magnetic Particle Testing - Level II		
Year registered	PE: WI 2015; SE: IL 2021	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Sampling, Instrument, Non-Destructive Testing (Bridge Instrumentation Non-Destructive 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 time specified in the applicable MPR(s).**
06/19-Present	**Purdue-Fort Wayne Pedestrian Bridge, Fort Wayne, Indiana** Project engineer assisting with UT and PAUT inspection of CJP welds, review of repair design calculations, load rating, and visual, MT, and UT inspection of repairs for this cable stay bridge.
01/21-Present	**Chicago Skyway Bridge, Chicago, Illinois** Project engineer assisting with visual inspection and load rating of primary members and gusset plates on steel deck truss bridge and steel piers.
11/21-02/22	**Susquehanna River Railroad Bridge, Havre de Grace, Maryland** Project engineer assisting with UT and PAUT inspection of 45 pinned connections of deck truss railroad bridge with known defect indications.
05/21-01/22	**SR 66 over I-64, Carefree, Indiana** Team leader for special inspection of bridge containing 18 pinned hinge connections, including visual inspection, ultrasonic testing (UT), and magnetic particle testing (MT). Assisted with development and implementation of repairs for cracked pin plate fillet welds.
09/21-12/21	**Water Street Bridge, Pittston, Pennsylvania** Project engineer for the the UT of ten transfer pins in steel through-truss bridge.
08/21-10/21	**Black Hawk Bridge, Lansing, Iowa** Project engineer responsible for UT and PAUT of 21 pinned connections in a steel through truss and suspended spans. Assisted with fracture critical inspection of steel through-truss spans.

16. Staff Experience			
Firm employed by: WJE			
Name	**Leonard Phelps**	**Years of relevant experience with this employer**	37
Title	Supervisor	**Years of relevant experience with other employer(s)**	8
Degree(s) / Years / Specialization	MS / 1991 / Chemistry BS / 1979 / Biology BA / 1979 / Chemistry		
Active registration number / state / expiration date	SSPC (AMPP) Certified Protective Coatings Specialist, 2021-014-012 / 12-31-2025		
Year registered	2021	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Sampling, Instrument, Non-Destructive Testing (Bridge Instrumentation Non-Destructive 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 time specified in the applicable MPR(s).
04/21-11/21	**Pacific Highway Land Port of Entry Envelope Renovation, Blaine, Washington** Lead chemist, as part of the building envelope upgrade, provided project advice regarding the coating specification, minimum adhesion rating for tests on canopy coating, coating tape adhesion test results, and coating submittals.
06/11-04/14	**Reeds Island Bridge, Hilo, Hawaii** Primary coating inspector and lead chemist to prepare specifications for preparation and shop painting of new galvanized steel, and for the painting and repair of site elements in a damp, wet environment due to average rainfall of about 130 inches of rain per year and waterway below. Led efforts to perform site inspections of shop and field surface preparation and coating application. The field coating application was in a wet environment due to frequent Hilo rainfall, and waterway below.
06/11-04/14	**Reeds Island Bridge, Hilo, Hawaii** Primary coating inspector and lead chemist to prepare specifications for preparation and shop painting of new galvanized steel, and for the painting and repair of site elements in a damp, wet environment due to average rainfall of about 130 inches of rain per year and waterway below. Led efforts to perform site inspections of shop and field surface preparation and coating application. The field coating application was in a wet environment due to frequent Hilo rainfall, and waterway below.
10/12-11/12	**Iowa Department of Transportation, Various Location, Iowa** Primary coating advisor and reviewer for the inspection and evaluation of weathering steel patinas for thirty-one bridges as part of research project to evaluate the performance of weathering steel bridge structures to identify types of structures that are most vulnerable to chloride contamination, identify locations on individual structures that are most susceptible, identify possible testing methods or inspection techniques, evaluate the effectiveness of water washing, and develop prioritization for washing based on the type and condition of the structure.
10/12-11/12	**Iowa Department of Transportation, Various Locations, Iowa** Primary coating advisor and reviewer for the inspection and evaluation of weathering steel patinas for thirty-one bridges as part of research project to evaluate the performance of weathering steel bridge structures to identify types of structures that are most vulnerable to chloride contamination, identify locations on individual structures that are most susceptible, identify possible testing methods or inspection techniques, evaluate the effectiveness of water washing, and develop prioritization for washing based on the type and condition of the structure.
09/05-10/07	**State of Hawaii, Aloha Stadium, Honolulu, Hawaii** Primary coating inspector and lead chemist responsible for assessing the condition of the substrate and extant coatings applied to structural weathering steel of the Aloha Stadium. Subsequently developed specifications for the preparation and coating (zinc-rich primer; epoxy stripe, filler, and intermediate; and fluoropolymer finish-- brush, roller, and airless spray) of the salt contaminated structural weathering steel. Performed numerous site inspections of multiple phases of work required to prepare and coat the steel in a salt environment.

16. Staff Experience

Firm employed by: kgc			
Name	**Kevin Guth, CIH, PMP**	**Years of relevant experience with this employer**	26
Title	Principal	**Years of relevant experience with other employer(s)**	3
Degree(s) / Years / Specialization	Doctor of Public Health (DrPH) / 2020 / Chemical Risk Assessment/Toxicology MSPH / 1996 / Industrial Lead Based Paint		
Active registration number / state / expiration date	ABIH 10438 / 06-30-2024	23834 / 07-31-2024	
Year registered	2018, 2013, 2009	**Discipline**	NACE - Coatings, Level 1
Contract role(s) / brief description of responsibilities	Sampling, Instrument, Non-Destructive Testing (Painting/Coating, Testing, Sampling)		

Kevin has worked in the field and managed over 200 painting and industrial lead-based removal projects as an environmental project manager. He has worked on 23 separate LADOTD repainting and rehabilitation in addition to many other Departments of Transportation, US Army Corps of Engineers, and private railroad projects since 1998 that included environmental oversight, implementation, and development of lead abatement plans for steel bridges. Kevin renewed his SSPC C-5 certificate in July of 2021.

Kevin is a recognized expert in industrial lead based removal from complex steel structures having been certified in New Orleans Civil Court testifying on proper containment methods necessary to prevent adverse environmental impact during industrial lead-based paint removal. Kevin has published several peer reviewed articles regarding lead exposures and ventilation flow rates that provide utility in the management of LADOTD repainting projects. He is a regular contributor (writer) on SSPC's website Paint Square where he has discussed topics applicable to LADOTD jobs such as proper ventilation on paint removal projects and the utility of pre and post job soil samples.

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 time specified in the applicable MPR(s).
04/19-Present	**LADOTD U.S. 90 Atchafalaya River Bridge Rehabilitation, Morgan City, Louisiana** Principal responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
10/20-11/21	**LADOTD LA 336-1 – Bayou Teche Bridge Rehabilitation, Breaux Bridge, Louisiana** Principal responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
02/18-08/19	**LADOTD Route I-10 Clean, Paint and Miscellaneous Repairs, Baton Rouge, Louisiana** Principal responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
12/17-08/18	**LADOTD I-20 Overpass Rehabilitation, Bossier City, Louisiana** Principal responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
08/16-10/17	**LADOTD U.S. 90 Huey P. Long Bridge Clean and Paint, Bridge City, Louisiana** Principal responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
12/15-06/17	**LADOTD U.S. 90 Over Mississippi River Bridge (GNO2) Structural Repairs and Spot Painting, New Orleans, Louisiana** Principal responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.

16. Staff Experience	
05/15-01/16	**LADOTD I-10 and 610 Bridge Deck Patching, Girder Painting and Miscellaneous Repairs, New Orleans, Louisiana** Principal responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
07/14-10/17	**LADOTD U.S. 190 Phase 2 Cleaning, Painting and Repair, Baton Rouge, Louisiana** Principal responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
08/13-08/13	**MDOT Natchez Vidalia Bridge, Natchez, Mississippi** NACE level certified bridge coating inspector who performed a comprehensive coatings evaluation of the entire bridge to determine the condition of the existing coatings and recommended alternatives for coating rehabilitation of this major Mississippi River Bridge crossing to provide continued corrosion protection for the structure. Scope also included comprehensive sampling of the existing coating system for the presence of heavy metals.

16. Staff Experience

Firm employed by: kgc

Name	**Justin Beitzel, PMP**	**Years of relevant experience with this employer**	12
Title	Senior Environmental Professional	**Years of relevant experience with other employer(s)**	2
Degree(s) / Years / Specialization	MBA / 2010 BS / 2009 / Business		
Active registration number / state / expiration date	SSPC C-3 / C-5 / 07-31-2022; 46202 / 07-31-2023		
Year registered	2013	**Discipline**	NACE Level 2 Coatings Inspector
Contract role(s) / brief description of responsibilities	Sampling, Instrument, Non-Destructive Testing (Painting/Coating, Testing, Sampling)		

Justin will provide sampling, instrumentation and non-destructive testing services. Justin will also collect samples and evaluate the protective coating material samples for determination of compatibility with proposed coatings, analysis for heavy metals, procedures for treatment, handling and disposal of waste. He will provide general coatings assessment services.

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 time specified in the applicable MPR(s).
04/19-Present	**LADOTD U.S. 90 Atchafalaya River Bridge Rehabilitation, Morgan City, Louisiana** On-site environmental monitor responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
10/20-11-21	**LADOTD LA 336-1 – Bayou Teche Bridge Rehabilitation, St. Martin Parish, Louisiana** On-site environmental monitor responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
02/18-08/19	**LADOTD Route I-10 Clean, Paint and Miscellaneous Repairs, Lafayette, Louisiana** On-site environmental monitor responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
8/16-10/17	**LADOTD U.S. 90 Huey P. Long Bridge Clean and Paint, Jefferson Parish, Louisiana** On-site environmental monitor responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
12/15-6/17	**LADOTD U.S. 90 Over Mississippi River Bridge (GNO2) Structural Repairs and Spot Painting, New Orleans, Louisiana** On-site environmental monitor responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
5/15-1/16	**LADOTD I-10 & 610: Bridge Deck Patching, Girder Painting and Miscellaneous Repairs, New Orleans, Louisiana** On-site environmental monitor responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
7/14-10/17	**LADOTD U.S. 190 Phase 2 – Cleaning, Painting and Repair, Baton Rouge, Louisiana** On-site environmental monitor responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
10/12-7/16	**LADOTD U.S. 190 Phase 1 – Cleaning, Painting and Repair, Baton Rouge, Louisiana** On-site environmental monitor responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.

16. Staff Experience			
Firm employed by: kgc			
Name	**Chris Price**	**Years of relevant experience with this employer**	12
Title	Senior NACE Coatings Inspector Level 3	**Years of relevant experience with other employer(s)**	3
Degree(s) / Years / Specialization	BS / 2010 / Business Administration		
Active registration number / state / expiration date	SSPC C-3 / C-5 / 07-31-2022; 50841 / 04-30-25		
Year registered	2013	**Discipline**	NACE – Coatings Inspector Level 3
Contract role(s) / brief description of responsibilities	Sampling, Instrument, Non-Destructive Testing (Painting/Coating, Testing, Sampling)		

Chris has many years of LADOTD experience working as an environmental monitor/coating inspector on painting and rehabilitation projects. Chris has worked on 10 major LADOTD lead removal bridge repainting projects since 2010. He has also worked on other Departments of Transportation, US Army Corps of Engineers and private railroad repainting and rehabilitation 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 time specified in the applicable MPR(s).
04/19-Present	**LADOTD U.S. 90 Atchafalaya River Bridge Rehabilitation, Morgan City, Louisiana** On-site environmental monitor responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
10/20-07/21	**St. John the Baptist Parish, Louisiana** NACE certified bridge coating inspector who performed a comprehensive coatings evaluation of the 16 water towers to determine the condition of the existing coatings and recommended alternatives for coating rehabilitation. Scope also included comprehensive sampling of the existing coating system for the presence of heavy metals.
02/18-08/19	**LADOTD Route I-10 Clean, Paint and Miscellaneous Repairs, Lafayette, Louisiana** On-site environmental monitor responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
07/14-10/17	**LADOTD U.S. 190 Phase 2 – Cleaning, Painting and Repair, Baton Rouge, Louisiana** On-site environmental monitor responsible for paint sampling for heavy metals analysis, proper procedures for treatment, handling and disposal of wastes.
08/13-08-13	**MDOT Natchez Vidalia Bridge, Natchez, Mississippi** Coatings inspector who performed a comprehensive coatings evaluation of the entire bridge to determine the condition of the existing coatings and recommended alternatives for coating rehabilitation of this major Mississippi River Bridge crossing to provide continued corrosion protection for the structure. Scope also included comprehensive sampling of the existing coating system for the presence of heavy metals.

16. Staff Experience			
Firm employed by: FORTE & TABLADA			
Name	**Brent Campbell**	**Years of relevant experience with this employer**	8
Title	Advanced Measurements and Modeling Technician	**Years of relevant experience with other employer(s)**	0
Degree(s) / Years / Specialization	BS / 2013 / Construction Management		
Active registration number / state / expiration date	NA		
Year registered	NA	**Discipline**	NA
Contract role(s) / brief description of responsibilities	Sampling, Instrument, Non-Destructive Testing (Advanced Measurements/Scanning)		

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 time specified in the applicable MPR(s).
09/21-09/21	**Westbank Closure Complex Multi-Beam Hydrographic Survey, Belle Chasse, Louisiana** Advanced measurements technician responsible for utilizing a shallow draft vessel equipped with advanced multi-beam sonar equipment. Forte and Tablada performed a comprehensive survey extending bank-to-bank of the station and beyond the protection fenders for a global depiction of scour. Scour results were presented in a color ramped elevation map, as well as imagery showing the presence of debris on an intake screen.
01/20-10/20	**I-10: Atchafalaya Basin Bridge-W. Baton Rouge P/L; I-10: Iberville P/L-W. Mississippi Bridge; I-10: W. Bridge 290-W. LA 415, West Baton Rouge and Iberville Parishes, Louisiana** Advanced measurements technician for complete topographic survey, approximately 18.3 miles, 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** Laser scanning technician to provide inspections and data acquisition for approximately 230 culvert locations statewide. Culvert measurements were acquired with a mixture of 3D laser scanning, sonar and LiDAR.
12/19-09/20	**Bayou Terrebonne Bridges, Louisiana** Responsible for laser scanning the Bayou Terrebonne bridge along with the entire intersection and adjacent roads.
05/19-09/19	**Danziger Bridge Rehabilitation, Orleans Parish, Louisiana** Laser scanning and project technician for survey investigation of Danziger Bridge. Included laser scanning and comparison of actual conditions to original plans.
05/17-10/18	**LADOTD Belle Chasse Bridge and Tunnel Replacement Hydrographic Survey, Plaquemines Parish, Louisiana** Responsible for laser scanning for the Belle Chase Bridge and Tunnel Replacement project. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway surfaces, and multi-beam 3D hydrographic surveying.
11/19 - 12/20	**Calcasieu River Bridge Investigation, Lake Charles, Louisiana** Laser scanning and project technician to provide laser scanning services for the I-10/Lake Calcasieu bridge. 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.

16. Staff Experience	
1/22-Present	**Hat Creek Permit Survey, Bossier Parish, Louisiana** Advanced measurements technician for UAV based aerial LiDAR and hydrographic surveys to provide plan and profile plans for permitting purposes. The project included flying approximately 200 acres on the Red River to provide a bare earth model to our engineers. This method allowed us to rapidly capture survey grade data versus traditional survey methods. A hydrographic survey of the Red River was performed using a sonarmite mounted on a shallow water vessel due to the low levels of the river. This hydrographic survey data was also provided to our engineers where it was integrated with the aerial LiDAR to provide the client with plan and profile plans for permit applications.
10/21-Present	**Merryville Aerial LiDAR, Beauregard Parish, Louisiana** Advanced measurements technician for UAV based aerial LiDAR to quickly capture the site topography. The project included flying approximately 175 acres in Merryville to provide a bare earth model to our engineers. Due to the projects tight schedule constraints, we were able to do an initial topographic survey of the site in a single day, then produce a surface model and contours for our engineers two days later. The surface model was used for preliminary site design and drainage flow characteristics.
11/18-04/19	**LA 327 Spur Staring Lane Extension Route LA 327-S, East Baton Rouge Parish, Louisiana** Responsible for laser scanning between the intersections of LA 42 (Burbank Drive) and Staring Lane and LA 327 (Gardere Lane) and LA 30. A complete topographic survey including all utilities with depths and all drainage was required, along with finish floor elevations of all buildings that fall within the survey limits.
02/17-03/18	**LADOTD U.S. 90 / I-310 Interchange, St. Charles Parish, Louisiana** Project technician responsible for topographic surveying and 3D laser scanning at the intersection of U.S. 90 and I-310. This project will allow improvements for safety and efficiency. The complete topographic survey includes all utilities with depths and all drainage required along with finish floor elevations of all buildings that fall within the survey limits.
8/14-Present	**LADOTD I-49 Connector, Lafayette Parish, Louisisana** Responsible for laser scanning services for the I-49 Connector. The project is in a dense urban area and is approximately five miles long. Forte and Tablada, Inc. completed laser scanning services for much of the congested corridor as a means to obtaining topographic data without endangering surveyors.
01/13-12/13	**LADOTD MacArthur Interchange Project Phase 1B, Orleans Parish, Louisiana** Responsible for laser scanning general areas in support of topographical survey including location and elevation surveys, for redundancy and volume.
01/13-03/13	**LADOTD I-10 (Highland to LA 73), East Baton Rouge and Ascension Parishes, Louisiana** Responsible for laser scanning of several bridges overpassing I-10, and extracting/coding survey coordinates and alignments. Also determined minimum horizontal and vertical clearances.
03/13-07/15	**LADOTD Almonaster Avenue Lift Bridge, Orleans Parish, Louisiana** Responsible for laser scanning of Almonaster lift bridge and determination of various bridge geometrics and counterweight volume based on scan data. Provided 2D plan geometry and elevations, as well as coded survey data. Used scanning to perform rail survey for inaccessible areas.

16. Staff Experience			
Firm employed by: HNTB			
Name	**Brian Powell, PE**	**Years of relevant experience with this employer**	19
Title	Sr. Geotechnical Engineer/Squad Leader	**Years of relevant experience with other employer(s)**	1
Degree(s) / Years / Specialization	MS / 2007 / Civil Engineering (Geotechnical) BS / 2002 / Civil Engineering		
Active registration number / state / expiration date	#41551 / LA / 09-30-2023; #29116 / MS / 12-31-2023		
Year registered	LA 2017; MS 2018	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Geotechnical Services (Geotechnical Engineering) **Minimum Personnel Requirement #9**		

Brian is is experienced in developing work scopes, managing subsurface investigations, design, plans and preparing specifications for geotechnical aspects of transportation, bridge, railway, aviation, architectural, environmental and water infrastructure projects. His design experience includes pavement, levees, embankments and floodwalls, temporary and permanent earth retention systems, settlement, slope stability, seepage and cutoff, shallow and deep foundations, lightweight fill, soil improvement and geosynthetics.

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 time specified in the applicable MPR(s).
08/15-Present	**LADOTD LA 1 Leeville to Golden Meadow Phase 2, Leeville, Louisiana** Geotechnical task lead for the Phase II floodwall design at the Larose to Golden Meadow levee system that required a 408-permit review with the USACE. The project included the construction of nine miles of bridge from Leeville to Golden Meadow. Geotechnical tasks included T-wall-type floodwall design and foundation support, seepage cutoff, and global stability analyses according to USACE Hurricane Storm Damage and Risk Reduction System (HSDRRS) design guidelines with a 3D settlement analysis to estimate floodwall subsidence. Oversaw pile production driving and dynamic testing documentation for Phase 2E.
01/19-Present	**LADOTD I-10-Loyola Interchange Design-Build Owner Verification, Jefferson Parish, Louisiana** Senior geotechnical contributor for the design-build Owner's Verifier CEI support services contract. Responsibilities include review of design reports, design criteria, adherence to the performance-based specifications and constructability of Design-Builder's progress submittals of this critical interchange connecting I-10 and Loyola Ave through the local urban communities and downtown New Orleans to the Louis Armstrong New Orleans International Airport terminal expansion.
01/18-06/19	**LADOTD LA 23 Belle Chasse Bridge and Tunnel Replacement Public-Private Partnership (P3), Belle Chasse, Louisiana** Geotechnical technical procurement team member on this alternative delivery bridge and tunnel replacement project, tasked with the development of technical procurement documents. This P3 project, the first of its kind in Louisiana, will replace two obsolete highway facilities with one new fixed-span bridge.
12/17-08/21	**MDOT I-20 Eastbound Flyover at I-55 Bridge Replacement, Hinds County, Mississippi** Geotechnical task lead for the design and development plans and specifications for the approximate 1,800-foot proposed bridge with a span over the ICRR corridor. He was responsible for the geotechnical subsurface exploration drilling plan, management and findings, estimated geotechnical design soil parameters, deep foundation shaft analyses and recommendations including bi-directional load test plans, settlement analysis at proposed embankment fill locations, slope stability analyses of existing fill slopes requiring H-pile reinforcement, permanent cantilevered sheet pile retaining wall analysis, temporary shoring, and construction recommendations. He is also providing engineering support during advertisement and construction.

16. Staff Experience	
03/20-Present	**West Shore Lake Pontchartrain 109 Levee and Floodwall Design, St. John the Baptist Parish, Louisiana** Senior geotechnical engineer task lead for approximately one mile of earthen levee embankment and T-wall type floodwall for nine pipeline crossings. Design consists of the development of strength and consolidation design parameters, earthen levee embankment design, including slope stability, settlement and seepage. The T-Wall design includes pile capacity analyses, group settlement, downdrag and settlement induced bending evaluations. Also, the T-Wall tie-in design includes preloading and wick drains.
07/19-Present	**Comite River Diversion, Bayou Baton Rouge Drop Structure Rock Chute, Bridge, and Pump Station, East Baton Rouge Parish, Louisiana** Senior geotechnical engineer task lead and HNTB project manager responsible for geotechnical design and management of scour countermeasure and pump station design for approximately 4,000 feet of a 50-foot-deep by 300-foot-wide diversion channel, 2,500 feet of rock chute drop structure and temporary bypass channels, Carney Road bridge precast prestressed concrete pile foundation and 1.5 cubic feet squared submersible pump station. The environmental pump station was required for recharge of downstream Bayou Baton Rouge. Geotechnical design included pile foundations and preload analyses, downdrag evaluation, channel slope stability, temporary retaining structure design and excavation dewatering evaluations.
02/20-Present	**MoveEBR New Capacity Improvements Projects, East Baton Rouge City-Parish, Louisiana** Senior geotechnical engineer responsible for technical oversight for 40 planned MovEBR roadway improvement projects including providing additional capacity on existing routes or new routes through greenfields in East Baton Rouge Parish. Mr. Powell was responsible for developing project geotechnical and pavement design guidelines in accordance with LADOTD requirements, review of scope and fee for design proposal, and review of technical geotechnical and pavement submittals for conformance with program design criteria for development of construction documents.
03/21-Present	**Gordon Country Club Dam Evaluation Study, Paris, Texas** Senior geotechnical engineer responsible for performing geotechnical tasks as part of a hydrologic study to estimate flood magnitudes and hydraulic capabilities of the Gordon Lake Country Club Dam and to develop preliminary action plans and proposed improvements. He is responsible for data collection, site visit and senior technical review for alternative analysis recommendations.
09/19-Present	**Kansas City Levees, Kansas City, Missouri and Kansas** Senior geotechnical engineer responsible for design guidance, senior technical reviews and constructability reviews for 17 miles of levee and floodwall raise for the Armourdale and Central Industrial District levee units. The $453 million construction project protects over $9.5 billion in infrastructure. The design includes new earthen levee alignments and raises to existing earthen levee alignments, new floodwall and modifications to existing floodwall, gate wells, utility relocations, stoplog closures, sandbag closures, and pump station abandonments. The project also includes extensive railroad coordination.
07/18-04/19	**LaDOTD U.S. 90 over LA-14 Bridge Reconstruction, Iberia Parish, Louisiana** Geotechnical engineer on the replacement of U.S. 90 over LA-14 that included drilled shaft construction and MSE walls. The proposed two span bridge will carry U.S. 90 traffic and is designed to be supported on drilled shaft foundations with Mechanically Stabilized Earth (MSE) walls at the approach embankments. Mr. Powell geotechnical engineering tasks included substructure design of deep foundations for the new bridge over LA 14 including drilled shafts and steel H-piles as well as the MSE wall design and settlement calculations.
07/18-04/19	**LaDOTD LA-532 over I-20 Bridge Replacement, Webster Parish, Louisiana** Geotechnical engineer for an off-alignment bridge replacement with an accelerated design and plan development schedule. Geotechnical tasks included the design for drilled shaft foundations and the development of bi-directional load tests.
01/18-10/18	**I-20 Eastbound Bridge At I-55 South, Hinds County, Mississippi** Geotechnical engineer responsible for review of original design and geotechnical investigation, additional drilling program as well as the design the of the bridge foundation, temporary and permanent shoring, embankment settlement analysis, slope stability, including H-Pile stabilization.
07/17-09/20	**Plaquemines Parish Jesuit Bend 100-Year Levee Enlargement, Plaquemines Parish, Louisiana** Geotechnical engineer responsible for the design and development of plans and specifications of levee enlargement for the hurricane back levee Jesuit Bend Polder, Oakville to Alliance.

16. Staff Experience

Firm employed by: HNTB

Name	**Jared Sommers, PE**	**Years of relevant experience with this employer**	11
Title	Senior Geotechnical Engineer	**Years of relevant experience with other employer(s)**	0
Degree(s) / Years / Specialization	BS / 2012 / Civil Engineering BS / 2007 / Mathematics		
Active registration number / state / expiration date	#40978 / LA / 03-31-2023		
Year registered	LA 2016	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Geotechnical Services (Geotechnical Engineering)		

Jared is a geotechnical project engineer experienced in developing work scopes, managing subsurface investigations, design, plans, and preparing specifications for geotechnical aspects of transportation, bridge, railway, aviation, architectural, environmental and water infrastructure projects for private sector, municipal, state and federal clients. He has engineering experience in Louisiana, Mississippi, Texas, Arkansas, Missouri and Iowa. His expertise includes levees, embankments, floodwalls, settlement, slope stability, seepage and deep foundations.

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 time specified in the applicable MPR(s).
02/19-12/19	**U.S. 80 Bridge Replacement over the Kansas City Southern Railroad, Rankin County, Mississippi** Geotechnical engineer tasked with quality control of the deep foundation shaft analyses and recommendations including bi-directional load test plans, temporary shoring design, settlement analysis and slope stability analysis. The project consisted of the replacement of a two-lane northwest bound bridge and a two lane southeast bound bridge northwest of I-20. The proposed bridges were designed to be founded on drilled shafts in unique soil conditions.
07/18-04/19	**LADOTD U.S. 90 over LA-14 Bridge Reconstruction, Iberia Parish, Louisiana** Geotechnical engineer on the replacement of US 90 over LA-14 that included drilled shaft construction and MSE walls.
07/19-04/19	**LADOTD LA-532 over I-20 Bridge Replacement, Webster Parish, Louisiana** Geotechnical engineer for an off-alignment bridge replacement with an accelerated design and plan development schedule. Geotechnical tasks included the design for drilled shaft foundations and the development of bi-directional load tests.
09/20 - 03/21	**LADOTD LA-1 over Caddo Lake Bridge Replacement, Caddo Parish, Louisiana** Geotechnical engineer for an off-alignment bridge replacement. Geotechnical tasks included foundation design using precast, prestressed concrete piles, drivability, approach embankment settlement calculations, and slope stability.
01/18-10/18	**I-20 Eastbound Bridge At I-55 South, Hinds County, Mississippi** Geotechnical engineer responsible for review of original design and geotechnical investigation, additional drilling program as well as the design the of the bridge foundation, temporary and permanent shoring, embankment settlement analysis, slope stability including H-Pile stabilization.
10/18-04/19	**LADOTD LA-15 over Boeuf River Bridge Replacement, Richland Parish, Louisiana** Geotechnical engineer for an off-alignment bridge replacement. Geotechnical tasks included foundation design using precast, prestressed concrete piles, drivability, seismic evaluation, approach embankment settlement calculations and slope stability.
07/18-06/20	**LADOTD Comite River Diversion US 61 and KCS Railway Bridges and Shoofly Design, East Baton Rouge Parish, Louisiana** Geotechnical engineer responsible for the Comite River Diversion drilling program, stability design and bridge foundations for the new KCS Railway and US 61 bridges over the Comite river diversion project. Foundations included PPC piles, steel pipe piles and drilled shafts up to 12 feet in diameter.

16. Staff Experience

Firm employed by: HNTB

Name	**Brad Wilder, PE**	**Years of relevant experience with this employer**	11
Title	Senior Geotechnical Engineer	**Years of relevant experience with other employer(s)**	8
Degree(s) / Years / Specialization	MS / 2007 / Geotechnical Engineering BS / 1999 / Geotechnical Engineering and Geology		
Active registration number / state / expiration date	#40735 / LA / 09-30-2022 #32184 / MS / 12-31-2022 #40186 / WI / 07-31-2022		
Year registered	LA 2016, MS 2021, WI 2009	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Geotechnical Services (Geotechnical Engineering)		

Brad is a geotechnical engineer in HNTB's New Orleans office with more than 18 years of experience. His experience includes multiple complex infrastructure design projects including residential, industrial, municipal, government and commercial projects. His geotechnical experience includes a variety of subsurface explorations, geophysical explorations, analysis and foundation design for buildings, roadways, bridges, embankments, and retaining walls. He has design and construction experience with deep foundations, retaining walls and ground improvement methods for stability and settlement mitigation. He has been involved with levee evaluation and design for various levee systems including the Dallas Floodway and the Kansas City Levee projects, multiple complex infrastructure design projects and field construction management.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
03/20-Present	**LADOTD I-10/Loyola Interchange Design-Build Owner Verification, Jefferson Parish, Louisiana** Senior geotechnical engineer for the design-build owner's verifier CEI support services contract. Responsibilities include review of design reports, design criteria, adherence to the performance-based specifications and constructability of design-builder's progress submittals. Senior technical reviews include verifying pavement design reports, deep foundation support and load tests for new roadway flyover and canal bridges, embankment settlement and preload evaluations, slope stability, and sound wall stability meet LADOTD design standards.
02/19-06/19	**LADOTD I-10 Calcasieu River Bridge EIS, Lake Charles, Louisiana** Geotechnical engineer involved with evaluation of existing timber pile deep foundations. Provided an evaluation framework detailing risks and data gaps for the possible reuse of timber pile foundations. Due to identification of hazardous material contamination within the project footprint, a more detailed level of geotechnical and structural engineering investigation is required to define site and project impacts in this portion of the project.
02/19-06/21	**U.S. 80 Bridge Replacement over the Kansas City Southern Railroad, Rankin County, Mississippi** HNTB was scoped by MDOT to design and develop plans and specifications for the bridge replacement. The project consisted of the replacement of a two-lane northwest bound bridge and a two lane southeast bound bridge northwest of I-20. The proposed bridges were designed to be founded on drilled shafts in unique soil conditions. He was the geotechnical task lead for geotechnical subsurface exploration drilling plan, management and findings, estimated geotechnical design soil parameters, deep foundation shaft analyses and recommendations including bi-directional load test plans, slope stability analyses of existing fill slopes, temporary shoring and construction recommendations.
01/18-Present	**I-20 Eastbound Flyover at I-55 Bridge Replacement, Hinds County, Mississippi** HNTB was scoped by MDOT to design and develop plans and specifications for the I-20 Eastbound Flyover at I-55 in Hinds County, Mississippi. The proposed bridge consisted of approximately 1,800 feet including a span over the ICRR corridor. He provided oversight and technical quality control for the geotechnical subsurface exploration drilling plan, management and findings, estimated geotechnical design soil parameters, deep foundation shaft analyses and recommendations including bi-directional load test plans, settlement analysis at proposed embankment fill locations, slope stability analyses of existing fill slopes requiring H-pile reinforcement, permanent cantilevered sheet pile retaining wall analysis, temporary shoring, and construction recommendations.

16. Staff Experience

Firm employed by: Ardaman & Associates, Inc.

Name	**Albert Wyenu-Prah, PhD, PE**	**Years of relevant experience with this employer**	7
Title	Project Engineer	**Years of relevant experience with other employer(s)**	7
Degree(s) / Years / Specialization	PhD / 2007 / Civil Engineering MS / 2004 / Civil Engineering BS / 2001 / Civil Engineering		
Active registration number / state / expiration date	37402 / LA / 03-31-2023		
Year registered	2012	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Geotechnical Services (Geotechnical Engineering)		

Albert is a project engineer with eleven years of experience in the geotechnical and pavement engineering fields. His design analyses experience includes proficiency in Slope/W, Seep/W, DRIVEN, gINT, AllPile, ShoringSuite, AutoCAD, GRLWEAP, and development of pavement design analysis spreadsheets. Dr. Ayenu-Prah has performed design analyses for projects including, pile foundations, drilled shaft foundations, low-strain and high-strain pile integrity testing, various shallow foundations, embankments, pavements, excavation shoring, vibration and ground movement instrumentation monitoring and horizontal directional drilling.

Albert has also conducted relevant research on road pavements and embankments as part of his masters and doctoral theses.

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 time specified in the applicable MPR(s).I
07/15–Present	**I-49 Connector (subcontractor to Stantec), Lafayette, Louisiana** Project engineer who performed design analyses related to retaining structures, slope stability (embankment and excavation) and embankment settlement.
11/15–Present	**McArthur Interchange Completion Phase II, U.S. 90-Z, Jefferson Parish, Louisiana** Project engineer for the project consisting of bridge design that includes deep borings, laboratory testing, subsurface characterization and engineering analyses to provide foundation design recommendations, verification of test plans and construction monitoring plans. Design recommendations to be developed include deep foundations, bearing capacity, embankment settlement, pile supported approach slab design.
09/15–11/15	**Tarbutton Road Interchange and I-20 Frontage Roads Bridge Redesign, City of Ruston, Louisiana** Project engineer who performed design analyses related to embankment settlement, slope stability, and geotechnical instrumentation and construction settlement monitoring plans.
12/14–12/15	**U.S. 90/LA 318 Bridge Design Study, E. Baton Rouge City/Parish, Louisiana** Project engineer who performed design analyses related to pavement design and associated geotechnical engineering designs. The scope of services for this project includes field exploration, geotechnical analysis and design recommendations report, embankment stability, deep borings, pile foundation design, geotechnical instrumentation and monitoring.

16. Staff Experience

Firm employed by: Ardaman & Associates, Inc.

Name	**Robert Jewell, PE**	**Years of relevant experience with this employer**	15
Title	Project Engineer/Branch Manager	**Years of relevant experience with other employer(s)**	0
Degree(s) / Years / Specialization	BS / 2009 / Civil Engineering		
Active registration number / state / expiration date	38579 / LA / 09/30/2022 Advanced Level PDA Certification Traffic Control Supervisor Certification		
Year registered	2013	**Discipline**	Geotechnical
Contract role(s) / brief description of responsibilities	Geotechnical Services (Geotechnical Engineering)		

Robert serves as the manager of Ardaman & Associates' Baton Rouge office and as project manager for various geotechnical engineering projects including pile and drilled shaft foundations, shallow foundations, static and dynamic pile testing, and slope stability. He has coordinated many geotechnical field investigations, including shallow and deep borings, ECPT soundings, and performed analyses and prepares design recommendation reports. For two years, he served as an on-site engineer for the LA Hwy. 1, Phase 1 project, where he conducted PDA testing and pile monitoring during construction.

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 time specified in the applicable MPR(s).
04/18-02/21	**Chef Menteur Pass Bridge & Approach, Orleans Parish, Louisiana** Project engineer who planned the geotechnical investigation scope, oversaw the field and laboratory testing. Provide quality control on the test results of soil borings, cone penetration soundings (CPT) and laboratory testing.
07/18-Present	**I-220/I-20 Interchange Improvement and Barksdale Air Force Base Access Road, Bossier Parish, Louisiana** Project engineer who helped prepare the preliminary design and planning report for this Design Build project consisting of direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and an interchange and access road from Interstate 20 in Shreveport, Louisiana.
07/15-Present	**I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange), Lafayette Parish, Louisiana** Project manager responsible for managing the geotechnical investigation and design for the construction of 5 miles of freeway consisting of a 3.5-mile elevated structure that will include pile supported approach slabs, pile foundations, slope stability, embankment settlement, advanced load test programs, and earth retaining structures. Overseeing and coordinating the field and laboratory program which will include a total of more than 400 borings including deep borings, shallow borings, and ECPT soundings. Geotechnical engineering analyses and design recommendations report will be developed for this project.
11/15-Present	**McArthur Interchange Completion Phase II, US 90-Z, Jefferson Parish, Louisiana** Project manager for the project consisting of bridge design that includes deep borings, laboratory testing, subsurface characterization and engineering analyses to provide foundation design recommendations, verification of test plans and construction monitoring plans. Design recommendations included deep foundations in the form of post grouted drilled shafts.
09/15-Present	**Pecue Lane I-10 Interchange I-10, East Baton Rouge, Louisiana** Project engineer for this interchange consists of twin bridges with MSE wall abutments for both bridges crossing Interstate I-10 in south Baton Rouge. The end bends are supported on 20+ feet MSW walls. The estimated consolidation from the embankment fill is 2 to 4 inches. The settlement will cause down drag on the end bent piles. Analysis for the project included settlement estimates with recommendations for monitoring, driven pile and drilled shaft design including down drag considerations, MSE Wall design, slope stability and pavement section recommendations; all completed according to DOTD standards.

16. Staff Experience

Firm employed by: Ardaman & Associates, Inc.

Name	**Jim Porter**	**Years of relevant experience with this employer**	48
Title	Drilling Supervisor	**Years of relevant experience with other employer(s)**	4
Degree(s) / Years / Specialization	N/A		
Active registration number / state / expiration date	NGWA Certified Well Driller No. 3717 / 1993 Louisiana Water Well Driller's License No. WWC-212 / 1984 Traffic Control Supervisor Certification / LA / 9/6/2023 ATSSA Flagger Certification / LA / 3/10/2024		
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Geotechnical Services (Field Investigations/Lab Testing)		

Jim has more than 40 years of experience in performing soil borings and monitor well installations throughout the Southeastern U.S., primarily in the State of Louisiana. He has overseen thousands of projects pertaining to geotechnical and environmental engineering assessments. These projects have included performing soil borings on land and over water, Electronic Cone Penetrometer Testing (ECPT) soundings, slope inclinometer installations, settlement plate installations, two-stage field permeability testing, geotechnical instrumentation installation, and utilizing specialized drilling equipment for difficult access sites.

Jim has guided as many as 10 drilling rigs with crews on projects ranging from residential investigations to a $600 million-dollar grass roots paper mill. He has been acknowledged by the Water Resources Section of the LADOTD for his contributions to the guidelines adopted in 1985 for Soil Borings and Water Well Installation Procedures. Mr. Porter has provided his assistance and recommendations to both the LADOTD and the LADEQ regarding drilling techniques, soil boring abandonment, and Geoprobe sampling. Mr. Porter has personally performed ECPT soundings on numerous projects since 1990.

Jim has planned many LADOTD's bridge investigation projects. He has arranged right of entry, utility locations, site clearing, arranging for police assistance (if needed) for traffic control/crew safety, and coordinating between engineering staff and drill crew.

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 time specified in the applicable MPR(s).
07/15-Present	**I-49 Connector, Geotechnical Investigation, Lafayette Parish, Louisiana** Drilling supervisor for the project where drilling is underway and will include a total of more than 400 borings including deep borings, shallow borings, and ECPT soundings.
04/14-Present	**I-12 to Bush Segment 2, LA 3241 (LA 36 – LA 435), St. Tammany Parish, Louisiana** Drilling supervisor for 32 deep soil borings, 10 culvert borings, and 88 shallow roadway borings and sampling along the alignment which includes two bridges: LA 435 over Bayou Lacombe Tributary and LA 36 over Bayou Lacombe Tributary 2.
04/08 – 06/12	**I-49 Segments E-J, Caddo Parish, Louisiana** Drilling supervisor who conducted field reconnaissance, which included rights of entry, utility locations, access and locating all of the deep and shallow borings. Oversaw completion of numerous deep and shallow borings in accordance with LADOTD standards.
02/12 – 11/13	**I-49 Segment K, (I-220 to MLK), Caddo Parish, Louisiana** Drilling supervisor who conducted field reconnaissance, which included rights of entry, utility locations, access and locating all of the deep and shallow borings. Oversaw completion of numerous deep and shallow borings in accordance with LADOTD standards.

16. Staff Experience			
Firm employed by: Ardaman & Associates, Inc.			
Name	**Megan Bourgeois, PE**	**Years of relevant experience with this employer**	16
Title	Project Manager/Assistant Branch Manager	**Years of relevant experience with other employer(s)**	0
Degree(s) / Years / Specialization	BS / 2006 / Civil Engineering		
Active registration number / state / expiration date	36725 / LA / Exp. 03/31/2024 Traffic Control Supervisor Certification / LA / 9/21/2020 Traffic Control Technician / LA / 5/18/2020 DOTD Flagger / LA / 8/8/2024		
Year registered	2011	**Discipline**	Geotechnical
Contract role(s) / brief description of responsibilities	Geotechnical Services (Field Investigations/Lab Testing)		

Megan has more than 13 years of experience with shallow foundations, embankment settlement, pile and drilled shaft foundations, LRFD pile and shaft design, slope stability (embankment and excavation), pipeline and pump station recommendations, pavement recommendations, geotechnical instrumentation and construction monitoring. She has managed geotechnical engineering investigations and design evaluations, managed laboratory testing programs, while also serving as Ardaman's program manager for many LADOTD projects for bridges and roadways throughout Louisiana. Megan also serves as the director of our geotechnical engineering laboratory in Baton Rouge. In this role, she supervises the laboratory manager, oversees testing and provides guidance to laboratory staff, ensures appropriate protocol is followed and deadlines are met.

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 time specified in the applicable MPR(s).
09/15-Present	**Pecue Lane I-10 Interchange I-10, East Baton Rouge, Louisiana** Project manager responsible for managing all aspects of the project from field investigations, laboratory testing program, and engineering design. This interchange consists of twin bridges with MSE wall abutments for both bridges crossing Interstate I-10 in south Baton Rouge. The end bends are supported on 20+ feet MSW walls. The estimated consolidation from the embankment fill is 2 to 4 inches. The settlement will cause down drag on the end bent piles. Analysis for the project included settlement estimates with recommendations for monitoring, driven pile and drilled shaft design including down drag considerations, MSE Wall design, slope stability and pavement section recommendations; all completed according to DOTD standards.
07/15-Present	**I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange), Lafayette Parish, Louisiana** Laboratory director/project engineer who is Involved in the geotechnical investigation and design for the construction of 5 miles of freeway consisting of a 3.5-mile elevated structure that will include pile supported approach slabs, pile foundations, slope stability, embankment settlement, advanced load test programs, and earth retaining structures. Overseeing laboratory program which will include a total of more than 400 borings including deep borings, shallow borings, and ECPT soundings. Geotechnical engineering analyses and design recommendations report will be developed for this project.
09/15-11/15	**Tarbutton Road Interchange & I-20 Frontage Roads Bridge Redesign, City of Ruston, Louisiana** Project manager bridge redesign project included review of existing geotechnical data for use in design analyses, drilled shaft foundation design, supervised slope stability analyses for the approach embankment and developed settlement monitoring plans with recommendations for implementation prior to abutment construction as well as drilled shaft monitoring/cross-hole sonic logging recommendations. Final report will include geotechnical design recommendations.

16. Staff Experience

Firm employed by: Ardaman & Associates, Inc.

Name	**Chandler Willis**	**Years of relevant experience with this employer**	10
Title	Laboratory Manager	**Years of relevant experience with other employer(s)**	4
Degree(s) / Years / Specialization	BS / 2004 / Marketing, Southeastern Louisiana University		
Active registration number / state / expiration date	NICET/Generalist, Laboratory No. 135280 / LA / Exp. 11/01/2024		
Year registered		**Discipline**	Laboratory Manager
Contract role(s) / brief description of responsibilities	Geotechnical Services (Field Investigations/Lab Testing)		

Chandler serves as Laboratory Manager of Ardaman's Baton Rouge laboratory which is under the direction of a Registered Professional Engineer. He supervises and manages operations of the firm's AMRL Certified and USACE-validated laboratory and also performs and oversees laboratory testing assignments, organizes and schedules testing, trains and develops technicians, and supervises four full-time laboratory technicians. Chandler is experienced conducting soil mechanics laboratory testing in accordance with appropriate AASHTO testing protocol, which includes Soil Classification, Atterberg Limits, Grain Size, Sieve Testing, Organic Matter tests, Moisture Content, and Strength testing (Unconfined and Unconsolidated-Undrained Triaxial (UU)). Prior to working for Ardaman, Chandler served as laboratory manager at another geotechnical laboratory for two years.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
04/18-02/21	**Chef Menteur Pass Bridge and Approach, Orleans Parish, Louisiana** Laboratory manager who supervised and assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content and Visual Classification, Fines Content, Sieve Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Unit Weight, Particle Size Analysis (Hydrometer), and UU Strength Tests.
09/15-Present	**Pecue Lane I-10 interchange I-10, East Baton Rouge, Louisiana** Laboratory manager who supervised and assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content and Visual Classification, Fines Content, Sieve Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, Organic Content, and UU Strength Tests.
11/15-Present	**MacArthur Interchange Completion Phase II Route U.S. 90-Z Jefferson Parish, Louisiana** Laboratorymanager who supervised and assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content and Visual Classification, Fines Content, Sieve Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.
04/14-04/15	**I-12 to BUSH Segment 2, LA 3241 (LA 36 – LA 435), St. Tammany Parish, Louisiana** Laboratory manager who investigated 32 deep soil borings, 10 culvert borings, and 88 shallow roadway borings, sampling, and laboratory testing along the alignment which includes two bridges: LA 435 over Bayou Lacombe Tributary and LA 36 over Bayou Lacombe Tributary 2.
05/12-06/13	**Goose Bayou Bridge, H.002260.5, Geotechnical Investigation Goose Bayou Bridge Route Louisiana** Laboratory manager who conducted and oversaw laboratory testing including: dry density, Atterberg limits, grain size analysis (Hydrometer and Fines Content), UU Strength Tests, Specific Gravity, and Consolidation Tests.
10/11-04/13	**LA I-20 Mississippi River Bridge Review, Vicksburg, Mississippi** Laboratory manager who supervised and assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content and Visual Classification, Fines Content, Sieve Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Unconfined Compressive Test and Unit Weight, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, Organic Content, and UU Strength Tests and Consolidated-Drained Direct Shear Tests.

16. Staff Experience

Firm employed by: Ardaman & Associates, Inc.

Name	**Jarmon King, EI**	**Years of relevant experience with this employer**	3
Title	Assistant Project Engineer	**Years of relevant experience with other employer(s)**	1
Degree(s) / Years / Specialization	BS / 2019 / Civil Engineering		
Active registration number / state / expiration date	#34348/ LA / 03/31/2022		
Year registered	2019	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Geotechnical Services (Field Investigations/Lab Testing)		

Jarmon serves as an assistant project engineer of Ardaman in the Baton Rouge office. He is involved with overseeing and conducting geotechnical investigations. Jarmon also prepares soil boring logs; processes and analyzes Cone Penetration Test (CPT) sounding, data, performs pile and settlement analyses; assists with writing geotechnical reports; and helps coordinate field and laboratory operations. Jarmon has experience in overseeing and performing Pile Driving Analyzer (PDA) testing during construction projects. He also serves as the Office Safety Coordinator and has experience assessing safety of employees on the job site in accordance with OSHA where he is responsible for carrying out safety standards and making any changes to ensure a safe and productive environment.

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 time specified in the applicable MPR(s).
03/19–06/21	**I-10 Widening (LA 415 to Howard Street), East Baton Rouge Parish, Louisiana** Assistant project engineer who evaluated the laboratory test results and produce logs for the widening of the East and Westbound lanes, elevated structures, and construction of interchange and ramps on Westbound lanes along I-10 between LA 415 and Howard Street spanning approximately 1 mile. The ongoing geotechnical investigation will include 58 deep borings and 15 cone penetrometer (CPT) soundings, associated laboratory testing and the preparation of a geotechnical data report.
10/19-02/21	**CHEF MENTEUR PASS BRIDGE & APPROACH: Orleans Parish, Louisiana** Assistant project engineer who helped produced soil boring logs and CPT soundings in LADOTD format. Assisted with development of the data report.
10/18-Present	**I-220 / I-20 Interchange Improvement and Barksdale Air Force Base Access Road, Bossier Parish, Louisiana** Assistant project engineer who assisted the project manager in preparing the preliminary planning report for this Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and construct an interchange and access road from Interstate 20 in Bossier City, Louisiana. Mr. King is currently performing PDA testing and CAPWAP analyses for the field construction.

16. Staff Experience			
Firm employed by: HNTB			
Name	**Kate Prejean, PE**	**Years of relevant experience with this employer**	22
Title	Associate Vice President, Project Manager	**Years of relevant experience with other employer(s)**	0
Degree(s) / Years / Specialization	BS / 2000 / Civil Engineering		
Active registration number / state / expiration date	#35036 / Louisiana / 3-31-2024; #19264 / Mississippi / 12-31-2022; #63000 / Florida / 02-28-2023		
Year registered	LA 2009, MS 2009, FL 2005	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Road Design & Traffic Services (Roadway Design) **Minimum Personnel Requirement #8**		

Kate serves as an associate vice president and project manager within HNTB's Baton Rouge transportation group. In this role, she serves as a responsible member of the firm. Since joining HNTB in 2000, she has been responsible for highway design on numerous roadway projects, for planning studies including National Environmental Policy Act (NEPA) process studies, public involvement activities, corridor studies and bicycle-pedestrian feasibility studies.

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 time specified in the applicable MPR(s).
10/10-07/16	**LADOTD Submerged Roads Program/Paths To Progress Program, New Orleans, Louisiana** Project engineer for this $120 million hurricane relief program. She has been responsible for scope and fee development for CDCs, cost estimates and financial tracking during pre-construction and completed construction proposal bid packages utilizing the LADOTD's LaDotNet and Trnsport. HNTB worked with the LADOTD, FHWA and other stakeholders as the program manager for street repairs due to damage related to Hurricane Katrina
05/17-06/21	**LADOTD Orleans Parish Urban Systems Program, Marconi Drive, MLK Boulevard, Morrison Road I and II, Orleans Parish Rehabilitation Projects, New Orleans, Louisiana** Project engineer for the $20-million roadway reconstruction projects and was responsible for the development of project plans and specifications including preliminary and final.
07/19-Present	**East Baton Rouge Parish MOVEBR Infrastructure Program, Baton Rouge, Louisiana** Director of preconstruction for the $1.2-billion program of projects that was separated into a list of capacity and enhancement projects. HNTB is responsible for $800 million in capacity infrastructure projects on 40 roadways throughout the parish of East Baton Rouge. As director of preconstruction, Kate is responsible for ensuring delivery of the projects from conceptual development, selection of design consultants, completion of design study and final design plans, permitting, cost estimating, ROW acquisition, budget tracking, quality assurance and control, coordination with city staff and other stakeholders. The activities include services provided by design consultants and specialty service consultants. She also monitors and coordinates schedule activities, burn rates, invoice review and approvals among other project control activities.
07/17-11/21	**MDOT I-20 Eastbound over I-55, Jackson, Mississippi** Engineer of record and technical roadway lead for the final design of the roadway approaches for a 15 span prestressed concrete beam bridge. Duties performed include project coordination with the client, coordinating with disciplines and leading the roadway technical decisions and roadway design of the project
09/14-07/18	**I-55 Widening over I-220, Jackson, Mississippi** Project engineer and technical roadway lead for the design project for the complex bridge system and approaches and roadway modifications necessary. The client has been told by other consultants that the bridge structure could not be widened. The existing box girder structure has 9.4 percent cross slope and a low vertical clearance. HNTB designed a way to widen the structure with multiple shallow steel plate girders to carry the load and meet the vertical clearances required. Additional work for construction services including RFI reviews, shop drawing reviews, and additional contractors submittal reviews.

16. Staff Experience			
Firm employed by: HNTB			
Name	**Randal Bonura, PE**	**Years of relevant experience with this employer**	3
Title	Project Engineer, Gulf Coast District Office Quality Manager	**Years of relevant experience with other employer(s)**	9
Degree(s) / Years / Specialization	BSCE / 2010 / Civil Engineering		
Active registration number / state / expiration date	#39861 / Louisiana / 09-30-2023; #123865 / Texas / 03-31-2023; #82055 / Florida / 02-28-2023; #28294 / Mississippi / 12-31-2022; #37626-E / Alabama / 12-31-2023		
Year registered	LA 2015, AL 2018, FL 2016, MS 2017, TX 2016	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Road Design & Traffic Services (Roadway Design)		
Randal has 12 years of consulting engineering experience. As project engineer, he performs roadway design, cost estimating, and construction administration services for projects in the Baton Rouge and New Orleans office's transportation, civil works, and construction sections.			

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 time specified in the applicable MPR(s).**
02/21-Present	**LADOTD LA 1, Phase 2, Leeville to Golden Meadow, Louisiana** Project engineer performing design services for the $450-million bridge and roadway construction project. The scope of this project is to provide a new two-lane bridge from Leeville to Golden Meadow that includes an intersecting T-intersection bridge near Golden Meadow. The T-intersection has a stem that consist of a two-lane, two-way urban arterial roadway that connects existing LA 1 to the new LA 1/LA 3235 bridge. Performed field investigations, developed detailed construction plans conforming to LADOTD design guidelines and standards. Prepared scope of work for surveyor, provided recommendations on horizontal geometric alignment layouts, and coordinated with LADOTD the proposed roadway and drainage design features to meet the department's minimum design guidelines, Road Design Manual and conform to the Hydraulics Manual. Roadway design includes accommodations for pedestrians and bicyclists per the LADOTD's complete streets policy.
05/19-Present	**LADOTD I-10 Improvements, Calcasieu River Bridge, Lake Charles, Louisiana** Project engineer for the environment impact statement (EIS) to analyze alternatives for the replacement of the existing high-level bridge (135-foot vertical clearance) and the existing Sampson Street interchange. Proposed improvements consider the best roadway and bridge alignments to avoid or minimize risk of construction in the ethylene di-chloride contamination area, minimize required acquisition of right-of-way, and minimize impact of construction on motoring public.
05/19-Present	**LADOTD LA 49/Williams Boulevard Improvements, Kenner, Louisiana** Project engineer for the $10 million roadway rehabilitation and enhancement project. Provided geometic design improvements to a four-legged intersection, developed sidewalk layouts with ADA compliant curb ramps and provided reinforced concrete designs for various incidental construction paving items.
10/20-Present	**Uptown Group B (FEMA Recovery Roads), Orleans Parish, Louisiana** Project Engineer performing design services for the $4.7 million roadway reconstruction and enhancement project in New Orleans' Uptown Group B neighborhood. Performed field investigations and provided recommendations report based on field findings. Scope includes preparing detailed construction plans, specifications, and cost estimate for the roadway reconstruction of 13 blocks including utility upgrades to sewer mains, water mains, and drainage. Scope also includes preparation of construction documents for base repairs and cold mill and overlay for 3 blocks, and incidental roadway repairs for 4 blocks. For streets with scope of work involving full reconstruction, all data and computations to support the roadway design and associated utility work is provided. Included in all repairs are utility adjustments and ADA compliant curb ramps.

16. Staff Experience			
Firm employed by: FORTE & TABLADA			
Name	Allison Shilling, PE	Years of relevant experience with this employer	4
Title	Project Engineer	Years of relevant experience with other employer(s)	35
Degree(s) / Years / Specialization	BS / 1998 / Civil Engineering		
Active registration number / state / expiration date	#30265 / LA / 09-30-2022		
Year registered	LA 2002	Discipline	Civil
Contract role(s) / brief description of responsibilities	Road Design & Traffic Services (Roadway Design) **Minimum Personnel Requirement #8**		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
01/17-01/18	**U.S. 80 at Old Benton Road Roundabout, Bossier, Louisiana** Developed conceptual layout as well as preliminary and final plans for roundabout at U.S. 80 and Old Benton Road. This roundabout is currently under construction as a permit project sponsored by the City of Bossier.
10/18-05/19	**LADOTD U.S. 190 over UPRR and Little Teche Bayou, St. Landry Parish, Louisiana** Project engineer for this project that developed a scoping document for the replacement or rehabilitation of the east and westbound U.S. 190 bridges over the Union Pacific Railroad (UPRR) near I-49 and over Little Teche Bayou. Based on the findings, a bridge evaluation report outlining the feasibility and preliminary cost estimates for several construction phasing alternatives, as well as a recommended scope of work, was developed.
01/08-06/09	**LA 3158 (Airport Road at Old Covington Highway Roundabout), Hammond, Louisiana** Developed preliminary and final plans to construct a roundabout at the all-way stop controlled intersection of LA 3158 (Airport Road) and Old Covington Highway. Led a separate project after construction was complete to add landscaping to provide additional visibility of the roundabout.
01/05-03/07	**LA 36/LA 59 (Abita Springs Roundabout), Abita Springs, Louisiana** This was the first roundabout constructed in District 62 and only the second one constructed in Louisiana. She developed conceptual drawings and presented to the Mayor of Abita Springs and the State Representative for the area for approval. The project involved purchasing a building within the Abita Springs Historic District several public meetings were required. The project involved minimizing impacts to a local park in one quadrant of the intersection, realignment of the Tammany Trace, converting a city street to a one-way street, paving of a gravel city street for maintenance of traffic during construction and realignment of a bank entrance driveway and city street to provide adequate distance from the roundabout. She met regularly with the local elected officials and business owners throughout the design of the project to discuss aspects of the project and added numerous improvements to mitigate impacts to the businesses and facilitate the movement of traffic through the area during construction. She also worked closely with FHWA and submitted the project for a FHWA "peer review" to ensure that the roundabout met design criteria used in other states. The project was late used a model in developing LADOTD's Context Sensitive Solutions Policy.
01/10-05/12	**Cockerham Drive Improvements, Livingston Parish, Louisiana** Project manager for the preliminary and final design plans for improvements to Cockerham Road, from Hatchell to Burgess Avenue. Improvements included pavement patching and overlay design, hydraulic analysis for installation of storm drain pipe and catch basins, and design of new concrete walkways and drives. This project provided safety and complete street enhancements along Cockerham Drive.
01/10-08/11	**I-12 (LA 1026 – LA 447) Juban to Walker Widening, Louisiana** Developed preliminary and final plans to widen I-12 from four to six lanes. The project included widening the roadway to the inside, installation of cast-in-place median barriers with conduit for future lighting and overlaying the existing interstate travel lanes.

16. Staff Experience	
01/11-06/13	**I-12/U.S. 190 Eastbound Exit Improvements, Covington & Mandeville, Louisiana** Developed preliminary and final plans to widen the eastbound exit to a double exit. The project included the geometric changes to the exit ramp, lengthening of the existing deceleration lane, overhead sign trusses, and guardrail.
01/07-04/09	**LA 1040 (LA 1040 – U.S. 51) Old Baton Rouge Highway Realignment, Hammond, Louisiana** Developed preliminary and final plans to realign LA 1040 (Old Baton Rouge Highway) to provide greater separation of the signalized U.S. 51/U.S. 190 and U.S. 51/LA 1040 intersections. The project included subsurface drainage, utility relocations, and partnering with the City of Hammond to acquire the ROW. The existing alignment was transferred to the City of Hammond after the project was complete.
01/06-06/10	**LA 1032 (U.S. 190 – River Road) Realignment of River Road, Denham Springs, Louisiana** Developed preliminary and final plans to realign LA 1032 (River Road) to remove a "jog" in the roadway alignment on U.S. 190. The project involved ROW acquisition, special design of a reverse crown at the U.S. 190 intersection to minimize drainage impacts, and ROW taking to an adjacent business. It also involved working closely with private homeowners impacted by the realignment and transfer of a portion of River Road to the City of Denham Springs after the construction was complete.
01/05-07/06	**LA 1019 (LA 64 – LA 16) Safety improvements, Louisiana** This project involved widening and overlay of LA 1019 to improve safety throughout the heavily traveled suburban corridor. Plans included redesign of roadway cross slope and superelevation for numerous curves throughout the project limits, the installation of raised pavement markers along both edges of the pavement for improved nighttime visibility, clearing and grubbing of the tree lines to improve sight distance from the numerous side streets and the addition/modification of the turn lanes at LA 16 while protecting a 100+ year oak tree. The project was the first project in Louisiana to include centerline rumble strips as a countermeasure to reduce head on crashes.

16. Staff Experience

Firm employed by: HNTB

Name	**Michael Hrzic, PE**	**Years of relevant experience with this employer**	16
Title	Hydraulic Engineer	**Years of relevant experience with other employer(s)**	6
Degree(s) / Years / Specialization	MS / 2000 / Civil Engineering BA / 1997 / Physics		
Active registration number / state / expiration date	#42160 / LA / 03-31-2024; #29063 / MS / 12-31-2022		
Year registered	LA 2017, MS 2018	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Road Design & Traffic Services (Hydraulic Analysis & Design)		

Michael is a hydraulic engineer with expertise in water resources, infrastructure rehabilitation, bridge scour countermeasures and drainage, floodplain analysis and mapping, reservoir design, environmental restoration, channel stability, and emergency response. He specializes in hydrology, hydraulics and sedimentary processes with an emphasis on riverine systems. His extensive modeling capabilities include working with HEC-RAS, SWMM, ADH and SRH-2D.

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 time specified in the applicable MPR(s).
02/18-Present	**LADOTD Comite River Diversion Channel, East Baton Rouge Parish, Louisiana** Hydraulic engineer performing analysis and design for the Highway 60 and KCS Railroad bridges over the proposed Comite River diversion 100% plan submittal. The Comite River diversion is a critical flood control structure to alleviate flood water from the Comite River to the Mississippi River. The proposed bridge required the channel scour countermeasures. Analysis was performed using 1D hydraulic model (HEC-RAS) and also developing 2D hydraulic model to evaluate spatially velocity conditions through the bridge
01/18-Present	**MDOT Hydraulics Retainer, Statewide, Mississippi** Project engineer and lead technical engineer responsible for performing the analysis and design of the culvert and bridge replacement projects. Used RAS and SRH2D to perform 1D and 2D hydraulic analysis for projects channel, culvert and bridge design and scour countermeasures. Performed deck and roadside drainage analysis using SWMM and Excel-based computation routines.
01/17-12/18	**Bayou Conway-Panama Canal LOMR Application, Ascension Parish, Louisiana** Senior hydraulic engineer responsible for performing the hydraulic and hydrologic analysis for the analysis of the Bayou Conway-Panama Canal drainage area. A 57-square-mile drainage basin hydraulic flood analysis was performed using Unsteady 1D/2D shallow water modeling approach currently supported by HEC-RAS 5.3. Overall the Letter of Map Revisions (LOMR) encompassed 12 panes and a multitude of government entities. Floodways were developed and base flood elevations reestablished including a coincidental boundary analysis to analyze downstream boundary influenced by the riverine and coastal hydraulic controls.
12/17-Present	**East Baton Rouge Stormwater Management Plan, East Baton Rouge, Louisiana** Senior technical engineer for the parishwide SMP that combines local drainage and floodplain management into an overall comprehensive plan. Phase I included the development of the implementation framework, including extensive existing data collection and gap analysis, the evaluation of data, a risk analysis, a plan outline and a cost estimate. It also included the development of a HEC-RAS 2D model of the entire parish utilized for the development of HMGP applications. These consisted of channel improvements, bridge replacements and detention. Phase II included data collection and GIS database for 11 watersheds, preliminary ordinance review, HEC-RAS 1D/2D modeling, PCSWMM modeling, a public engagement program and project identification and development.

16. Staff Experience			
Firm employed by: HNTB			
Name	**Daniel Tanner, PE**	**Years of relevant experience with this employer**	3
Title	Hydraulic Engineer	**Years of relevant experience with other employer(s)**	5
Degree(s) / Years / Specialization	BA / 2014 / Civil Engineering		
Active registration number / state / expiration date	#42793 / LA / 03-31-2023		
Year registered	LA 2018	**Discipline**	Civil Engineering
Contract role(s) / brief description of responsibilities	Road Design & Traffic Services (Hydraulic Analysis & Design)		

Daniel has experience with design and management of numerous civil works infrastructure projects throughout Louisiana, with a focus in water resources. This includes hydrologic and hydraulic modeling, detention pond analysis, storm drainage design, benefit-cost analysis, plan production, and construction administrative services. He has assembled multiple drainage studies and plan sets, and has design experience using the following software: GeoHEC-RAS, HEC-RAS, HEC-HMS, HEC-SSP, HEC-FDA, Aquaveo's SMS, LADOTD's Hydrwin, Bentley PondPack, StormCad, Autodesk Civil 3D and Sanitary and Storm Analysis.

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 time specified in the applicable MPR(s).**
03/19-08/19	**USACE Modeling of Jones Creek Watershed, East Baton Rouge, Louisiana** Engineer responsible for development of the hydrologic and hydraulic modeling of the Jones Creek watershed located in East Baton Rouge Parish. This included using hydrologic methodology outlined in Urban Hydrology for Small Watersheds TR-55 to develop a model using the USACE's HEC-HMS software. In addition to this hydrologic model, an unsteady state 1D/2D HEC-RAS model was developed that was linked to HMS runoff hydrographs and hyetographs
07/16-02/19	**Buddy Ellis Road Bridge Replacement (Overlay Project), Livingston Parish, Louisiana** Engineer responsible for performing drainage analysis of Taylor Bayou at the proposed bridge replacement at Buddy Ellis Road. Tasks included completing a hydrologic analysis of the Taylor Bayou watershed and developing a HEC-RAS hydraulic model for the channel at the proposed bridge replacement location. A LADOTD Bridge Replacement Hydraulic Report was created, which compared the existing and proposed project scenarios.
12/16-02/19	**Cook Road Project, Livingston Parish, Louisiana** Engineer responsible for performing drainage analysis of Grays Creek at the proposed bridge replacement at the proposed Cook Road. Tasks included completing a hydrologic analysis of the Grays Creek watershed and developing a HEC-RAS hydraulic model for the channel at the proposed bridge replacement location. A LADOTD Bridge Replacement Hydraulic Report was created, which compared the existing and proposed project scenarios.
07/19-Present	**Ascension Parish Floodplain Management Plan, Louisiana** Deputy project manager for $2.6 million FMP development. His responsibilities included management of subconsultant progress for a parish-wide survey of the existing open channel system, H&H modeling, documentation of known flooding problems, and developing mitigation strategies and proposed projects. His everyday tasks included coordination of design criteria document, H&H modeling support of Bayou Manchac, Henderson Bayou and Bayou Conway basins, flood hazard identification, modeling proposed mitigation strategies, benefit costs analysis, coordination with the Parish and report write-up documenting all findings. This project will provide Ascension Parish with a plan that will transition smoothly into the implementation effort.

16. Staff Experience			
Firm employed by: VECTURA CONSULTING SERVICES, LLC			
Name	**Brin Ferlito, PE, PTOE**	**Years of relevant experience with this employer**	6
Title	Principal	**Years of relevant experience with other employer(s)**	27
Degree(s) / Years / Specialization	BS / 1988/ Civil Engineering		
Active registration number / state / expiration date	25383 / LA / 09-30-2023		
Year registered	LA 1993	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Road Design & Traffic Services (Traffic Services)		

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 time specified in the applicable MPR(s).
07/19-Present	**LADOTD Belle Chasse Bridge & Tunnel Replacement PPP, Belle Chasse, Louisiana** Project manager for the temporary and permanent traffic signal plans for the intersections of LA 23 at Burmaster Street and at Engineers Road. She based her traffic signal plans on design year volumes that were developed using growth rates from the New Orleans Regional Planning Commission Travel Demand Model. This project is the first ever PPP performed by LADOTD. She coordinated the detour plans based on the sequence of construction as part of the Level 2 TMP.
02/20-11/21	**LADOTD I-20 LA 544 Overpass Replacement, Ruston, Louisiana** Project manager for the TMP as part of a design for a bridge replacement and three roundabouts. The TMP was a Level 2 and included evaluation of 10 Sequence of Construction Phases. Detours included rerouting traffic to other interchanges at nighttime only, rerouting traffic from I-20 to the off ramp and on ramp at nighttime only, and rerouting traffic to service roads in vicinity of the project. She coordinated the queue analysis with LADOTD to determine when lane closures would be allowed utilizing 24-hour tube counts. She will also coordinate the development of temporary traffic signal plans.
07/18-04/19	**LADOTD LA 1 Pedestrian Crosswalk Study and Traffic/Pedestrian Signal Design West Baton Rouge Parish, Addis, Louisiana** Developed a pedestrian crosswalk study and traffic signal construction plans for the LA 1 at LA 990 intersection. The study was based on LADOTD Traffic Engineering Manual Crosswalk Guidelines followed by traffic signal design plans based on LADOTD requirements. The study included traffic and pedestrian traffic data collection, a speed study, crash analyses, intersection analyses and progression analyses. The signal plans included pedestrian signal equipment, signal timing parameter calculations, crosswalk striping, signs, LADOTD pay items, estimated quantities, and construction cost. She also assisted with the parish with the LADOTD Permit Request for Intersection Control Devices on a state ROW.
09/16-04/17	**LADOTD I-12 to Bush - LA 3241 (I-12 – LA 36) Corridor Study, St. Tammany Parish, Louisiana** Project manager of a formal LADOTD traffic study for the new alignment of LA 3241 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. The traffic study included alternative analyses to improve the safety and efficiency of the roadway consistent with the latest LADOTD policies related to access management and complete streets. Specific access management features examined included intersection improvements, median openings, and U-turns, spacing and type of openings, signalization of intersections and roundabouts. She developed the safety analyses report for the project.

16. Staff Experience	
08/12-05/13	**LA 935 Safety/Stage 0 Study, Ascension Parish, Louisiana** Developed the safety analyses report for the Stage 0 Study. She coordinated and collected existing traffic data using Jamar equipment. She used HCS and Interactive Highway Safety Design Model (IHSDM) Software for the analyses. She developed MicroStation drawings with scaled aerials to show crash diagram locations as well as proposed alternate layouts. Histograms developed in Excel were used to show the comparison of various crash conditions with statewide averages. Crash records for three years were obtained from crash1 database.
06/02-04/04	**Shreveport ITS Near-Term Phase 3A, Shreveport, Louisiana** Developed the construction plans for the design of ITS equipment on a 22-mile stretch of I-220. The project included 36 closed circuit television cameras, five dynamic message signs and 143 radar vehicle detectors. Project included plan preparation of communications diagrams, fiber optic allocation diagrams, fiber optic termination diagrams, telecommunication facilities, power services, wireless transmitters and receivers, related conduit and end equipment, general notes, special details, estimated construction cost and terrain analyses.
06/01-08/03	**Shreveport ITS Near-Term Phase 1, Shreveport, Louisiana** Designed ITS equipment construction plans for a 10-mile stretch of I-20. Equipment included 17 video cameras, eight dynamic message signs and 66 radar counters. This project included plan preparation of communications diagrams, fiber optic allocation diagrams, fiber optic termination diagrams, telecommunication facilities, power services, wireless transmitters and receivers, related conduit and end equipment, general notes, special details, estimated construction cost and terrain analyses.

16. Staff Experience			
Firm employed by: VECTURA CONSULTING SERVICES, LLC			
Name	**Laurence Lambert, II, PE, PTOE, PTP**	**Years of relevant experience with this employer**	6
Title	Supervisor	**Years of relevant experience with other employer(s)**	18
Degree(s) / Years / Specialization	MBA / 2010 MS / 2006 / Civil Engineering BS / 1997 / Civil Engineering (Transportation focus)		
Active registration number / state / expiration date	29901 / LA / 3-31-2024		
Year registered	LA 2001	**Discipline**	Civil
Contract role(s) / brief description of responsibilities	Road Design & Traffic Services (Traffic Services)		

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 time specified in the applicable MPR(s).
02/21-03/21	**I-10 ITS Scott to Lake Charles, Southwest Louisiana** Lead traffic engineer for a Level 2 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
10/17-10/18	**LA 182 (University Avenue) Corridor Planning Study, Lafayette, Louisiana** Lead transportation engineer for a corridor planning study for LA 182. The scope focused on improving safety and mobility for pedestrian, bicycle, and transit users. Laurence collected AM & PM peak vehicle turning movement counts as well as pedestrian and bicycle counts. He coordinated with the Acadiana Planning Commission to develop growth rates and design year volumes. He performed Highway Capacity Manual analysis for five intersections along the intersection analyses for the signalized and roundabout controlled alternatives. Included in the study was a safety analyses of five intersections and the intermediate segments. Based on the results of the safety analysis, he provided design criteria to the design team for improving safety of pedestrians, bicycles and vehicles.
03/18-06/18	**Shreveport Immediate ITS Phase 2B, Shreveport, Louisiana** Task lead for the procurement and alternative analysis configuration portions of the Systems Engineering Analysis (SEA) that complied with Code of Federal Regulations Title 23, 940.11. The procurement task consisted of investigating the methods of procurement for the deployment project where the procurement options for the pros and cons for each method were documented. The alternatives analysis configuration consisted of analyzing three possible project configurations where the pros and cons of the needed equipment and communication options were documented.
09/16-04/17	**LADOTD I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study, St. Tammany Parish, Louisiana** Lead traffic engineer for a LADOTD 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. He 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 LADOTD policies related to access management. He collected seven-day, 24-hour counts with classification on mainlines, turning movement counts for morning and evening peak periods and speed data for mainlines. He also developed a VISSIM traffic simulation model of the preferred alternative.
04/11-09/11	**U.S. 90 at Louisiana 85 Design-Build Maintenance of Traffic Plan, Iberia Parish, Louisiana** Lead traffic engineer for one of the first design-build projects undertaken by LADOTD, which included the construction of a grade separated, diamond interchange to replace the existing U.S. 90 intersections with Louisiana 85 in Iberia Parish to upgrade this future I-49 corridor to interstate standards. He developed a maintenance of traffic plan that accommodated the bridge and road widening, but also maintain passage of large trucks and freight through the heavily traveled corridor crucial for agricultural goods and farming.

16. Staff Experience	
06/10-10/10	**I-12 Widening Design-Build Amite River Bridge to Juban Road Maintenance of Traffic Plan, Livingston Parish, Louisiana** Responsible for designing a maintenance of traffic plan that would keep drivers informed of real time traffic situations through a comprehensive traffic management system. Four lanes (two lanes in each direction) were to remain open during peak travel times throughout the length of the project. Temporary lane closures only occurred at night.
04/07-12/07	**Baton Rouge to New Orleans ITS-TIM Phase 1 Design Build Project, Jefferson and St. John the Baptist Parishes, Louisiana** Project manager for an ITS design-build project, where he represented the LADOTD ITS Section. He was responsible for developing a SEA that was used to solicit proposals from design build teams. He also assisted the LADOTD ITS Section with the development of the scope of services package (SOSP) that was used during the procurement process.
09/06-09/07	**Downtown Baton Rouge Signal Project, Louisiana** Project manager to develop construction plans to upgrade 29 signals in downtown Baton Rouge as part of the EBR Green Light Plan. He coordinated numerous utility conflicts during construction since current utility plans were not readily available in an old part of town. He made several signal pole foundation location adjustments based on numerous field visits with utility companies.

16. Staff Experience			
Firm employed by: FORTE & TABLADA			
Name	**Bradley Holleman, PLS, EI**	**Years of relevant experience with this employer**	.5
Title	Senior Vice President, Survey/Advanced Measurements & Modeling	**Years of relevant experience with other employer(s)**	14
Degree(s) / Years / Specialization	BSCE /2009 / Civil Engineering		
Active registration number / state / expiration date	5082 / LA / 09-30-2022		
Year registered	2012	**Discipline**	Land Surveying
Contract role(s) / brief description of responsibilities	Surveying & Title Work Services (Topographic 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 time specified in the applicable MPR(s).
05/12-09/12	**Tchefuncte River Bridge, Tangipahoa Parish, Louisiana** Surveyor-in-charge for the topographic survey and existing drainage map. This project was for a bridge replacement over the Tchefuncte River in Tangipahoa Parish. The work consisted of completing a topographic survey, according to the LADOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.
01/13-09/13	**Jefferson Highway Overpass, East Baton Rouge Parish, Louisiana** Surveyor-in-charge for the bridge monitor survey, topographic survey and existing drainage map. This project was monitoring and the overpass replacement of Jefferson Highway over Airline Highway in East Baton Rouge Parish. The work consisted of completing a topographic survey, according to the LADOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.
07/13-10/13	**I-12 to Bush Route La 3241 Survey Control, Bush, Louisiana** Surveyor-in-charge for setting the primary static control and digital levels for future phases of the project. This project was for the construction of a new connecting route from Interstate 12 to Bush Louisiana. The work consisted of setting deep rod monuments along the proposed route and conducting over 40 miles of digital levels between the deep rod monuments.
09/13-03/14	**Amite River Bridge Near French Settlement, French Settlement, Louisiana** 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. The work consisted of completing a topographic survey, according to the LADOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.
09/14-02/15	**LA 3139, New Orleans, Louisiana** Surveyor-in-charge for the topographic survey, 3D laser scanning and existing drainage map. This project was for constructing a replacement span because of a damaged girder on the LA 3139 overpass over I-10. The work consisted of completing a topographic survey, according to the LADOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.
12/14-03/16	**LA 21 to LA 59, St. Tammany Parish, Louisiana** 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. The work consisted of completing a topographic survey, according to the LADOTD Location and Survey Manual, including all utilities with depths and all drainage required along with finished floor elevations of all building that fall within the survey limits.

16. Staff Experience			
Firm employed by: FORTE & TABLADA			
Name	**Ross Wilson, PLS**	**Years of relevant experience with this employer**	10
Title	Surveyor	**Years of relevant experience with other employer(s)**	2
Degree(s) / Years / Specialization	BS / 2010 / Geomatics		
Active registration number / state / expiration date	5148 / LA / 03-31-2022		
Year registered	LA 2015	**Discipline**	Land Survey
Contract role(s) / brief description of responsibilities	Surveying & Title Work Services (Topographic 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 time specified in the applicable MPR(s).
04/21-06/21	**LADOTD LA 397 Turn Lanes at Rice Mill, Calcasieu Parish, Louisiana** Surveyor responsible for topographic surveying at the intersection of LA 397 and Joe Spears Road.
08/19-Present	**LADOTD I-10/Loyola Interchange Improvements, Kenner, Louisiana** Project manager providing topographic survey, ROW survey and drainage survey. The project stretches from the levee in Kenner to the Williams Boulevard off-ramp, as well as Loyola Avenue and portions of Veterans Boulevard.
06/20-Present	**LADOTD Rural Bridge Replacement Initiative; 7 State Projects Numbers (22 Structures) in Districts 04, 05, 08 and 58, Louisiana** Surveyor for topographic surveying of 22 bridges in Louisiana.
01/20-10/20	**LADOTD I-10 Atchafalaya Basin Bridge-W. Baton Rouge P/L; I-10: Iberville P/L-W. Mississippi Bridge; I-10: W. Bridge 290-W End of LA 415, West Baton Rouge & Iberville Parishes, Louisiana** Project manager for complete topographic survey, approximately 18.3 miles, from the east end of the Atchafalaya Bridge to the west end of the I-10/LA 415 Interchange.
11/19-12/20	**LADOTD Calcasieu River Bridge Investigation, Lake Charles, Louisiana** Surveyor to provide laser scanning services for the I-10/Lake Calcasieu bridge. 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.
12/19-09/20	**LADOTD Bayou Terrebonne Bridges, Louisiana** Surveyor for the Bayou Terrebonne bridge along with the entire intersection and adjacent roads.
11/18-04/19	**LA 327 Spur Staring Lane Extension Route LA 327-S, East Baton Rouge Parish, Louisiana** Project manager for a topographic survey for this project in between the intersections of LA 42 (Burbank Drive) and Staring Lane and LA 327 (Gardere Lane) and LA 30. A complete Topographic survey including all utilities with depths and all drainage was required, along with finish floor elevations of all buildings that fall within the survey limits.
05/17-10/18	**LADOTD Belle Chasse Bridge and Tunnel Replacement Hydrographic Survey, Plaquemines Parish, Louisiana** Surveyor for comprehensive topographic surveying services for the Belle Chase Bridge and Tunnel Replacement project. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway surfaces, and multi-beam 3D hydrographic surveying.

16. Staff Experience	
01/18-06/19	**LADOTD I-10 (LA 415 to Essen Lane on I-10 and I-12), East and West Baton Rouge Parishes** Project manager for topographic survey of the work between LSU lakes and Essen Lane.
02/17-03/18	**LADOTD U.S. 90 / I-310 Interchange, St. Charles Parish, Louisiana** Surveyor responsible for topographic surveying and 3D laser scanning at the intersection of U.S. 90 and I-310 in St. Charles Parish.
08/14-Present	**LADOTD I-49 Connector, Lafayette Parish, Louisiana** Survey manager responsible for providing topographic 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. completed laser scanning services for much of the congested corridor as a means to obtaining topographic data without endangering surveyors.
03/13-07/15	**LADOTD Almonaster Avenue Lift Bridge, Orleans Parish, Louisiana** Survey manager responsible for performing topographic and property surveys, developing a drainage map, establishing existing ROW for the north line of I- 10, Almonaster Avenue and CSX Railroad property, and establishing elevations to develop a digital terrain model with widths matching the limits of the topographic survey.
10/18-02/19	**LADOTD Sunshine Bridge Repair, Louisiana** Surveyor responsible for establishing control on and near the Sunshine Bridge to use survey and laser scanning methods to monitor the damage on the bridge. This project included utilizing LiDAR data.
06/19-09/19	**LADOTD Danziger Bridge Repair, Orleans Parish, Louisiana** Surveyor for topographic and monitoring survey and laser scanning of Danziger bridge. This survey is necessary due to damage of joints, deck and girder ends of the fixed spans on both sides of the bridge. This project included utilizing LiDAR data.
01/12-12/20	**LADOTD Cook Road Improvements, Livingston Parish, Louisiana** Surveyor for topographic and ROW surveys for this project that designed improvements to an existing section of two-lane roadway and an unimproved area with the construction of a four-lane boulevard section from LA Hwy 16 (Pete's Highway) to LA Highway 1026 (Juban Road), along with several bridges.
5/17-10/17	**LADOTD LA 442 Tangipahoa River Bridge Replacement, Tangipahoa Parish, Louisiana** Surveyor to provide topographic surveying for the LA 442 bridge over the Tangipahoa River. The survey included numerous cross-section surveys upstream and downstream of the bridge, as well as the along the bridge fascia.
01/13-03/13	**LADOTD I-10 Highland Road to LA 73, East Baton Rouge and Ascension Parishes, Louisiana** Survey manager for the topographic survey of approximately seven miles to widen the interstate.
10/13-10/14	**LADOTD LA 63 Bridges near Bluff Creek, East Feliciana Parish, Louisiana** Provided topographic surveys in preparation for bridge replacements with drainage structures along three portions of the existing highway including utility location and depths. Finished floor elevations of all buildings that fall within the survey limits were determined.
01/10-12/12	**LADOTD I-10 Design Build Siegen Lane to Highland Road, East Baton Rouge Parish, Louisiana** Technician for the construction stakeout and topographic surveying for 2.8 miles on the interstate. Utilized GPS, conventional-robotic, and differential leveling surveying on this project.

16. Staff Experience			
Firm employed by:	NTB Associates, Inc. Surveyors · GIS · Engineers Since 1988		
Name	**Grant Gilleon, PLS**	**Years of relevant experience with this employer**	14
Title	Vice President	**Years of relevant experience with other employer(s)**	20
Degree(s) / Years / Specialization	BS / 1987 / Construction Engineering Technology		
Active registration number / state / expiration date	4976 / LA / 03-31-24; 02590 / MS / 12-31-22; 21774 / AL / 12-31-23		
Year registered	LA 2007, MS 1993, AL 1996	**Discipline**	PLS / PS
Contract role(s) / brief description of responsibilities	Surveying & Title Work Services (Hydrographic 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 time specified in the applicable MPR(s).
09/20-04/22	**LADOTD IDIQ Contract for Hydrographic Surveying Services, Statewide, Louisiana** Project manager directing hydrographic surveying services for multiple bridges at scheduled intervals upstream and downstream currently totaling 74 sites throughout the state.
09/14-04/22	**USDA/NRCS Property Surveying Services, Louisiana** Project manager supervising survey crews, file processing, drafting and submittals for property surveying services and map and plat preparation for over 8,600 acres.
12/20-03/22	**LADOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, Louisiana** Quality control surveyor assisted in survey crew coordination for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, Static GPS Control, hydrographic surveys and QL C & D SUE for bridge repair/rehabilitation.
08/18-11/21	**LADOTD IDIQ Contract for Hydrographic Surveying Services, Statewide, Louisiana** Project manager directing hydrographic surveying services for multiple bridges at scheduled intervals upstream and downstream for 320 sites throughout the state.
10/20-11/20	**Caddo Lake Hydrographic Profile Survey, Caddo Parish, Louisiana** Project manager directing hydrographic surveying services in support of a directional bore design. The crew obtained a cross section of the lake parallel to the LA Highway 1 bridge determining depths and elevations at 20-foot intervals for a total distance of 1,100 feet.
05/15-04/22	**Walter O. Bigby Carriageway (N. Parkway Extension), Bossier Parish, Louisiana** Project manager supervised topographic, Static GPS Control, boundary and hydrographic surveying services to accurately determine the river bottom and channel location in association with the design of a new stormwater outfall into the river in support of ROW mapping.
02/16-08/18	**LADOTD Retainer Contract for Hydrographic Monitoring of Existing Bridges, Statewide, Louisiana** Project manager directed hydrographic surveying services for multiple bridges at scheduled intervals upstream and downstream throughout the State totaling 225 sites, including tasks for emergency hydrographic surveys for historical floods.
12/15-01/16	**Bickham Bayou Emergency Sewer Repairs, Shreveport, Louisiana** Project manager who directed field and office staff for topographic and hydrographic surveying services.

16. Staff Experience	
04/15-09/15	**LaDOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, Louisiana** Project manager who supervised survey crews, file processing, drafting and submittals for topographic surveying services utilizing HDS 3D Terrestrial Laser Scanning methods of data collection for bridge rehabilitation.
05/13-10/15	**Kingston Road Improvements and Development, Bossier Parish, Louisiana** Project manager who supervised crews, file processing, drafting and submittals for topographic surveys, property surveys and final ROW mapping.
07/14-02/15	**LaDOTD LA 16 Amite Drainage Improvements, Tangipahoa Parish, Louisiana** Project manager directed survey crews for topographic surveys and hydrographic surveys of the drainage pond and related outfalls on this project to collect the run-off of the drainage system.
04/14-04/14	**Hydrographic Survey of the Ouachita River, Monroe, Louisiana** Project manager directed a survey crew to perform a hydrographic survey to determine the river bottom elevations at a predetermined line to plan a directional drill for a new fiber optic line under the river.
04/13-09/13	**LaDOTD LA 506 Castor Relief Bridges, Route LA 506, Caldwell Parish, Louisiana** Project manager directed survey crews for topographic surveys and hydrographic surveys as related to the creeks and tributaries crossing beneath the seven bridges along the project route for use as basis for engineering design.
08/11-07/13	**Field Data Measurements within the Atchafalaya Basin, Buffalo Cove Area, Louisiana** Project surveyor supervised Static GPS Control and hydrographic surveying services at predetermined locations across approximately 200 square miles of Atchafalaya Basin.
12/11-11/12	**LaDOTD Retainer Contract for Professional Hydrographic Surveying Services, Statewide, Louisiana** Project manager directed a survey crew to perform hydrographic surveys for multiple bridges at scheduled intervals upstream and downstream for 106 sites throughout the state.
04/11-12/11	**LaDOTD Retainer Contract for Hydrographic Survey Monitoring, Statewide, Louisiana** Project manager directed a survey crew to perform hydrographic surveys for multiple bridges at scheduled intervals upstream and downstream for 64 sites throughout the state.
07/09-05/11	**LaDOTD Retainer Contract for Professional Surveying Services, Statewide, Louisiana** Project manager directed a survey crew to perform hydrographic surveys for multiple bridges at scheduled intervals upstream and downstream for 187 sites throughout the state.

16. Staff Experience			
Firm employed by: NTB Associates, Inc. Surveyors · GIS · Engineers Since 1988			
Name	**Paul Rossini, PLS**	**Years of relevant experience with this employer**	35
Title	CEO / Contract Administrator	**Years of relevant experience with other employer(s)**	7
Degree(s) / Years / Specialization	High School Diploma / 1980		
Active registration number / state / expiration date	4731 / LA / 09-30-2022; 1294 / AR / 06-30-22; 1426 / OK / 12-31-22; 2938 / MS / 12-31-22		
Year registered	LA 1994, AR 1995, OK 1996, MS 1993	**Discipline**	PLS / PS / LS
Contract role(s) / brief description of responsibilities	Surveying & Title Work Services (Hydrographic 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 time specified in the applicable MPR(s).
08/21-04/22	**LADOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, and 58, Louisiana** Principal-in-charge of contract administration, staffing, logistics and QA/QC for Static GPS Control, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, property surveys, and QL C & D SUE for 34 bridge and culvert replacements. Property surveying will include production of preliminary and final ROW maps and parcel descriptions.
04/21-04/22	**LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62, Louisiana** Principal-in-charge of contract administration, staffing, logistics, and QA/QC for Static GPS Control, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection and QL C & D SUE for 21 bridge and culvert replacements.
09/20-04/22	**LADOTD IDIQ Contract for Hydrographic Surveying Services, Statewide, Louisiana** Principal-in-charge of contract administration, staffing, logistics and QA/QC for hydrographic surveying services for multiple bridges at scheduled intervals upstream and downstream for 74 sites throughout the Louisiana.
05/15-04/22	**Walter O. Bigby Carriageway (N. Parkway Extension), Bossier Parish, Louisiana** Principal-in-charge of contract administration, fee negotiations, scope of work, staffing, logistics and QA/QC for topographic, Static GPS Control, boundary, and hydrographic surveying services in support of ROW mapping.
12/20-03/22	**LADOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, Louisiana** Principal-in-charge of contract administration, staffing, logistics and QA/QC for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, Static GPS Control, hydrographic surveys and QL C & D SUE for bridge repair/rehabilitation.
08/18-11/21	**LADOTD IDIQ Contract for Hydrographic Surveying Services, Statewide, Louisiana** Principal-in-charge of contract administration, staffing, logistics and QA/QC for hydrographic surveying services for multiple bridges at scheduled intervals upstream and downstream for 320 sites throughout the Louisiana.
12/15-01/16	**Bickham Bayou Emergency Sewer Repairs, Shreveport, Louisiana** Principal-in-charge of contract administration, fee negotiations, scope of work, staffing, logistics and QA/QC for topographic and hydrographic surveying services.
03/18-05/15	**BPPJ Hamilton Road Improvements (I-20 to Benton Road), Bossier Parish, Louisiana** Principal-in-charge of contract administration, fee negotiations, scope of work, staffing, logistics, and QA/QC logistics for topographic surveys, property surveys and final ROW mapping.

16. Staff Experience	
07/14-02/15	**LADOTD LA 16 Amite Drainage Improvements, Tangipahoa Parish, Louisiana** Principal-in-charge of contract administration, fee negotiations, scope of work, staffing, logistics and QA/QC for topographic surveying services and hydrographic surveys.
04/13-09/13	**LADOTD LA 506 Castor Relief Bridges, Route LA 506, Caldwell Parish, Louisiana** Principal-in-charge of contract administration, fee negotiations, scope of work, staffing, logistics and QA/QC for topographic surveying services and hydrographic surveys.
12/11-11/12	**LADOTD Retainer Contract for Professional Hydrographic Surveying Services, Statewide, Louisiana** Principal-in-charge of contract administration, fee negotiations, scope of work, staffing, logistics and QA/QC for hydrographic surveys for multiple bridges at scheduled intervals upstream and downstream for 106 sites throughout the state.
01/11-08/12	**LADOTD Local Road Safety Program, Sight Distance Improvements for Grigsby Road at Ranger Road in Jackson Parish, Louisiana** Principal-in-charge of contract administration, fee negotiations, scope of work, staffing, logistics, and QA/QC to perform Static GPS Control, topographic and property surveys, title take-offs for 7 ownerships and ROW mapping.
07/09-05/11	**LADOTD Retainer Contract for Professional Surveying Services, Statewide, Louisiana** of contract administration, fee negotiations, scope of work, staffing, logistics and QA/QC for hydrographic surveys for multiple bridges at scheduled intervals upstream and downstream for 187 sites throughout the state.
03/08-11/10	**LADOTD MacArthur Avenue Interchange Completion (Phase I) Route U.S. 90, Jefferson Parish, Louisiana** Principal-in-charge of contract administration, fee negotiations, scope of work, staffing, logistics and QA/QC for property surveying and ROW acquisition map preparation on approximately 0.5-mile segment of a new construction project to add turning lane and subsurface drainage.

16. Staff Experience			
Firm employed by: CIVIX			
Name	**Mona Nosari**	**Years of relevant experience with this employer**	38
Title	Senior Vice President – Right of Way Management	**Years of relevant experience with other employer(s)**	0
Degree(s) / Years / Specialization	American Bar Association Paralegal Certification LADOTD - Local Public Agency Qualification Core Training U.S. Department of Transportation Federal Highway Administration -Seminar No. 14121 Effective Right of Way Acquisition & Property Management		
Active registration number / state / expiration date	N/A		
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Surveying & Title Work Services (Title Research and Reporting)		

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 time specified in the applicable MPR(s).**
09/17 - Present	**Move Ascension Turnkey ROW Acquisition Projects, Ascension Parish, Louisiana** Principal-in-charge and program director of the Move Ascension Initiative. She provided the framework, procedures and program templates for the Move Ascension Program and works closely with right of way and relocation agents to ensure compliance and mitigate risks associated with expropriations. The $35 million-dollar transportation infrastructure improvement program is developed to safely move traffic within Ascension Parish through the design and construction of roadway improvement projects identified during the Master Transportation Planning Development phase. This multi-year initiative is Civix's first large-scale right of way assignment in Ascension Parish. Civix has successfully completed acquisitions for nine projects acquiring nearly 200 parcels with less than 1% of expropriations required. Civix is currently providing turnkey right of way acquisition and relocation services for six additional projects. Additionally, Civix developed the Ascension Parish Right of Way Acquisition Implementation Plan in compliance with state and federal policies. The plan consists of right of way acquisition procedures, forms, templates and procedural instructions to ensure compliance with the Uniform Relocation Act.
01/19 - Present	**Mid-Barataria Sediment Diversion Project, Plaquemines Parish, Louisiana** Executive sponsor providing oversight to the Civix project manager and acquisition team on project related initiatives. The Mid-Barataria Sediment Diversion project is a large-scale, complex ecosystem restoration project that is designed to mimic natural conditions by diverting water, up to 75,000 cubic feet per second, from the Mississippi River to the mid-Barataria Basin to deliver sediment, freshwater, and nutrient to build new land, maintain existing marshes and increase habitat resiliency to sea level rise and storm events. Civix was initially tasked with preparation of a tax assessment report and GIS map of 48 impacted landowners within the division channel construction limits and the sediment outfall areas with Plaquemines and Jefferson Parishes, including limited title research to verify legal descriptions. Following the delivery of the tax assessment report, Civix was tasked with providing 14 separate abstracts of title from sovereign on each of the parcels with the conveyance channel. Finally, Civix has been managing appraisal activities on seven properties within the channel footprint.

16. Staff Experience			
Firm employed by: CIVIX			
Name	Hubert Graves	Years of relevant experience with this employer	2
Title	Senior Land Specialist	Years of relevant experience with other employer(s)	31
Degree(s) / Years / Specialization	BS / 1987 / Finance		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Surveying & Title Work Services (Title Research and Reporting)		

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 time specified in the applicable MPR(s).
09/17-Present	**Move Ascension Turnkey ROW Acquisition Projects, Ascension Parish, Louisiana** Management support and title research team member, and acquisitions and relocations team member for several Move Ascension projects. He also coordinates with surveyors and appraisers, and provides quality control, guidance and oversight to team members. The $35 million-dollar transportation infrastructure improvement program is developed to safely move traffic within Ascension Parish through the design and construction of roadway improvement projects identified during the Master Transportation Planning Development phase. This multi-year initiative is Civix's first large-scale right of way assignment in Ascension Parish. Civix has successfully completed acquisitions for nine projects acquiring nearly 200 parcels with less than 1% of expropriations required. Civix is currently providing turnkey right of way acquisition and relocation services for six additional projects. Additionally, Civix developed the Ascension Parish Right of Way Acquisition Implementation Plan in compliance with state and federal policies. The plan consists of right of way acquisition procedures, forms, templates and procedural instructions to ensure compliance with the Uniform Relocation Act.
01/12-Present	**Mid-Barataria Sediment Diversion Project, Plaquemines Parish, Louisiana** Project relations for the construction of the 30 levee and floodwall projects. Civix coordinates with surveyors, appraisers, title abstractors and attorneys in the production of individual property plat maps and legal descriptions, appraisal reports, tract ownership data sheets, 50-year abstracts of title, and interim title binders and final closing documents. Civix coordinates activities between the U.S. Army Corps of Engineers and the Plaquemines Parish Government, including review of rights of way maps and submittal of LADOTD project and access permits. Civix completes the compensation packets to landowners for the appropriation of properties acquired in perpetual or temporary easements and performs relocation services for owner-occupants and tenants. Additionally, on behalf of the Plaquemines Parish Government, Civix compiles and submits real estate reimbursement packages to the U.S. Army Corps of Engineers to provide reimbursement to the project sponsor for acquisition of lands, easements, rights of way and administrative costs associated with each project.

16. Staff Experience			
Firm employed by: CIVIX			
Name	**Sharon Loreno**	**Years of relevant experience with this employer**	5
Title	Land Specialist	**Years of relevant experience with other employer(s)**	27
Degree(s) / Years / Specialization	BA / 1990 / Physcology		
Active registration number / state / expiration date	N/A		
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Surveying & Title Work Services (Title Research and Reporting)		

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 time specified in the applicable MPR(s).
1/19-Present	**West Shore Lake Pontchartrain Hurricane and Storm Damage Risk Reduction System Project, St. Charles, St. John the Baptist and St. James Parishes, Louisiana** Title research team member who also prepares abstracts of titles. Civix is the project manager for all right of way acquisition, relocation and permitting initiatives required for the project which began in 2010. Civix's support includes review of right of entry requests and accompanying drawings provided by the U.S. Army Corps of Engineers (Corps), identifying assessed landowners, preparing landowner notification letters regarding the project, obtaining rights of entry from key landowners and permits from various agencies to facilitate surveying and investigations required by the Corps, mapping services, coordination with surveyors and appraisers, real estate acquisitions, and preparing authorizations for entry granting the Corps access to properties as needed for the project. Civix prepares maps and other visuals used in strategic meetings with the Corps (federal sponsor), PLD, and the Coastal Protection and Restoration Authority (non-federal sponsors) to prioritize acquisitions and construction sequencing.
10/11-Present	**St. Charles Parish West Bank Hurricane Protection Levee, St. Charles Parish, Louisiana** Real estate specialist who conducts title research and prepares abstracts of title, prepares agreements between the landowners and the Lafourche Basin Levee District, and coordinates with pipeline operators to obtain permission for construction within the vicinity of their lines. The West Bank of St. Charles Parish, which houses a significant amount of critical infrastructure, lacks federal hurricane and storm surge protection. In lieu of relying on the federal government to construct hurricane and storm surge protection for the west bank of St. Charles Parish, the Parish permitted a local alignment and allocated local tax money towards its construction. The West Bank Hurricane Protection Levee consists of a nine-mile system incorporating earthen levees, floodwalls, navigable water control structures and a series of pump stations. The project is part of the proposed Upper Barataria Risk Reduction System (UBRRS), a proposed 38-mile regional hurricane protection system that has been included in the Coastal Protection and Restoration Authority 2017 Coastal Master Plan. Throughout the project, Civix has served as the primary real estate consultant and provided a wide range of right of way acquisition and program management services for the various phases. Additionally, Civix serves as liaison between the Corps, the State of Louisiana Department of Natural Resources, the Lafourche Basin Levee District, and St. Charles Parish for the project.

16. Staff Experience

Firm employed by: HNTB

Name	**Lynn Maloney-Mujica, AICP**	**Years of relevant experience with this employer**	4
Title	Senior Planner/Senior Environmental Scientist	**Years of relevant experience with other employer(s)**	30
Degree(s) / Years / Specialization	MS / 2008 / Environmental Science BS / 1976 / Liberal Arts		
Active registration number / state / expiration date	American Institute of Certified Planners / #20555 / National		
Year registered	LA 2006	**Discipline**	N/A
Contract role(s) / brief description of responsibilities	Environmental and Permitting Services		

Lynn is a certified planner whose most recent experience has focused on infrastructure projects. She began her career as a bilingual consultant in Puerto Rico and then later returned to her native Louisiana in 1998 to work as an economic/environmental planner for the Baton Rouge Planning Commission. Her master's thesis, "Comprehensive Planning in Louisiana," won the Martinez Award for outstanding thesis research in the Department of Environmental Sciences at LSU. As a consultant in the private sector for the last 20 years, she has worked for a wide range of city, parish, state, and federal agencies. Her expertise in NEPA analyses and documentation is broadly interdisciplinary and includes public outreach and stakeholder engagement as required for these projects. Recent projects involve experience in transportation and community planning. In 2019, she developed the first virtual public meeting for LADOTD, who won a Transportation Award for the effort.

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 time specified in the applicable MPR(s).
06/18-Present	**LADOTD I-10 Calcasieu River Bridge Improvements Environmental Impact Statement (EIS), Lake Charles, Louisiana** Project manager responsible for EIS documentation, alternatives scoping and screening, technical team oversight, preparation and/or review of technical documents, public involvement, interagency coordination, and all other tasks related to completing the NEPA review. To date, she has designed, managed, and conducted one stakeholder meeting, two alternatives analysis workshops, one agency/local official briefing, and one large-scale in person public meeting. In 2021, she coordinated an online virtual public meeting, public officials briefing and Context Sensitive Solutions and Design workshop using the latest technologies for public outreach and comment capture.
10/19-02/20	**LADOTD LA 1, Phase 2, Leeville to Golden Meadow, Louisiana** Member of team that prepared an INFRA Grant application for funding to complete the elevation of eight miles of roadway to protect America's premier oil production and distribution center against severe weather event disruptions. About 20 percent of the U.S. domestic energy production relies on this corridor. This application received $135 million – the largest such award to date, and about 15 percent of 2020's INFRA Grant funds. Responsible for team coordination, editorial review, and obtaining 50 customized letters of support from local, regional, and national stakeholders.
09/19-11/19	**LADOTD College Drive Flyover Ramp, Baton Rouge, Louisiana** Responsible for coordinating the open house public meeting to provide information and collect comments on a flyover ramp designed to improve traffic flow within the I-10/I-12 westbound interchange. Responsible for developing exhibits, looping presentation, and other meeting materials, addressing comments, and producing the meeting transcript.
05/21-06/21	**Baton Rouge Recreation Department RAISE Grant, North Baton Rouge, Louisiana** Member of team preparing a RAISE grant for rehabilitation and connection of a bike-ped and trails network. Responsible for network design, local support, and stakeholder coordination.
03/21-04/21	**East Baton Rouge Parish Florida Boulevard and Airline Highway INFRA Grant, Baton Rouge, Louisiana** Senior planner/environmental task lead for the environmental review, which in anticipation of federal funding, will adhere to LADOTD NEPA requirements for a Programmatic Categorical Exclusion. In addition to environmental and public outreach, responsibilities will include oversight of Complete Streets implementation through incorporation of appropriate transit, pedestrian, and bicycle facilities in the redesign of the four-mile corridor.

16. Staff Experience			
Firm employed by: ELOS			
Name	**Brian Fortson**	**Years of relevant experience with this employer**	6
Title	Senior Ecologist	**Years of relevant experience with other employer(s)**	25
Degree(s) / Years / Specialization	Juris Doctorate / 2006 / Civil Cum Laude BS / 1995 / Wetland Ecology		
Active registration number / state / expiration date	NA		
Year registered	NA	**Discipline**	NA
Contract role(s) / brief description of responsibilities	Environmental and Permitting Services		

Brian has over 30 years of environmental experience in providing technical expertise and environmental knowledge to ELOS personnel through managing and permitting various complex developmental infrastructure projects. Brian serves as the senior environmental scientist at ELOS, working with regulatory agencies such as USDA, NRCS, FEMA, USACE, LADNR, and LDEQ. Brian's knowledge of state and federal environmental regulation and his years of experience enables him to navigate the permitting process. Brian provides senior guidance to the environmental scientists at ELOS on plant identification and threatened and endangered species 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 time specified in the applicable MPR(s).
05/17-07/17	**Kings Road Bridge Replacements, Bogalusa, Louisiana** Senior environmental scientist responsible for environmental compliance for the replacement of the bridge over Wrights Creek in northern St. Tammany Parish. Supervised field investigations and impact analyses for natural and cultural resources. He prepared the Gopher Tortoise Inspection Report and coordinated with US Fish and Wildlife Service to secure concurrence on a finding of no effect.
08/17-07/18	**LADOTD Land Use and Transportation Study Harrison Avenue Extension, Abita Springs, Louisiana** Environmental lead who assisted in the preparation of a LADOTD Stage 0 Environmental Checklist for the extension of Harrison Avenue in Abita Springs from LA 59 to LA 36, a distance of 1.7 miles. Desktop and field data were collected to identify relevant resources in the project area. He assisted in the identification of land use, wetlands, community facilities, recreational assets, historic and cultural sites and hazardous waste sites.
09/20-Present	**LADOTD LA 3234 Extension to Hammond Airport Environmental Assessment, Hammond, Louisiana** Environmental scientist responsible for the supervision of fieldwork, wetlands delineation, biological surveys and Section 404 application for three alternative alignments being studied for the extension of E. University Avenue from LA 1065 to the Hammond Airport. He provided the wetlands value assessment (WVA) to estimate mitigation costs for unavoidable impacts to wetlands. This project included a wetland delineation, section 404 and 401 permit applications, cultural resources site visit and report, and threatened and endangered species survey.
01/15-01/16	**LADOTD State Project No. STP-445-1(002), U.S. 51 Business (La 22 To I-12), St. Tammany Parish, Louisiana** Supervised and participated in field investigations to support wetlands delineations and findings reports, biological surveys, and threatened and endangered species reports. He also provided coordination among natural resource agencies, consultation with landowners and outreach to public groups.

16. Staff Experience			
Firm employed by: ELOS			
Name	**Cory Ricks**	**Years of relevant experience with this employer**	6
Title	Project Manager / Environmental Scientist	**Years of relevant experience with other employer(s)**	2
Degree(s) / Years / Specialization	BS / 2015 / Biology		
Active registration number / state / expiration date	R-I-99273-17-01464		
Year registered	2017	**Discipline**	proActive Safety Services Renovator Initial
Contract role(s) / brief description of responsibilities	Environmental and Permitting Services		

Cory serves as ELOS's wetland delineation specialist and he has led wetland delineation efforts for multiple projects for local development, mitigation banks, and infrastructure developments. He has provided assistance with NEPA documentation, permitting, wetland delineations, GIS mapping, and cultural resources for a variety of projects. He currently manages a team of environmental scientists, field biologists, and data processors who all assist on a variety of environmental and debris monitoring 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 time specified in the applicable MPR(s).
09/20-Present	**LADOTD LA 3234 Extension to Hammond Airport Environmental Assessment, Hammond, Louisiana** Environmental scientist who performed the wetland delineation for all three routes and provided a report of the findings. He provided assistance for GIS mapping of the wetlands findings report, Phase 1 environmental assessment survey and the biological assessment survey. He provided a report of the threatened and endangered species known in the project area. Lead efforts on providing stream and waterbody data for each report. This project included a wetland delineation, section 404 and 401 permit applications, cultural resources site visit and report and threatened and endangered species survey.
07/21-Present	**City of Kinder Drainage Imporvements, Kinder, Louisiana** Project manager/environmental scientist who coordinated with government agencies to obtain permits to authorize the debris removal from parish waterways. He conducted wetland delineations, obtained and recorded data for damage survey reports, and managed personnel to ensure the project is completed on time and within budget.
08/20 – 7/21	**LADOTD Rural Bridge Initiative - Jesse B Road over Bayou Mallet, Louisiana** Assisted with fieldwork and managed projects. This bridge replacement project included a wetland delineation and permit applications.
8/20 – 7/21	**LADOTD Rural Bridge Initiative – Sandy Creek Bridge, Louisiana** Assisted with fieldwork and managed projects. This bridge replacement project included a wetland delineation and permit applications.
08/20-Present	**LADOTD Rural Bridge Initiative – Beamow Road over Bayou Maringouin, Louisiana** Assisting with fieldwork and managed projects. This bridge replacement project includes a wetland delineation and permit applications.
8/20 – 7/21	**LADOTD Rural Bridge Initiative – Sligo Road over Walter Creek, Louisiana** Assisted with fieldwork and managed projects. This bridge replacement project included a wetland delineation and permit applications.

16. Staff Experience	
08/20-Present	**LADOTD Rural Bridge Initiative – Carpenters Bridge Road over Whiskey Chitto Creek, Louisiana** Assisting with fieldwork and managed projects. This bridge replacement project includes a wetland delineation, permit applications, and threatened and endangered species survey.
08/20-03/22	**LADOTD Rural Bridge Initiative – Reeds Bridge Road Over Calcasieu River Relief, Louisiana** Assisted with fieldwork and managed projects. This bridge replacement project included a wetland delineation, permit applications, and threatened and endangered species survey.
08/20-01/22	**LADOTD Rural Bridge Initiative – Unnamed Waterway Route, Louisiana** Assisted with fieldwork and managed projects. This bridge replacement project included a wetland delineation, permit applications, and threatened and endangered species survey.
08/20-09/21	**LADOTD Rural Bridge Initiative – LA 321: Creek Bridges, Louisiana** Assisted with fieldwork and managed projects. This bridge replacement project included a wetland delineation, permit applications, and threatened and endangered species survey.
08/20-09/21	**LADOTD Rural Bridge Initiative – LA 404: Bayou And Canal Bridges, Louisiana** Assisted with fieldwork and managed projects. This bridge replacement project included a wetland delineation and permit applications.
8/20-02/22	**LADOTD Rural Bridge Initiative – LA 717: Klondike Canal And Bayou Bridges, Louisiana** Assisted with fieldwork and managed projects. This bridge replacement project included a wetland delineation, permit applications, and threatened and endangered species survey.
08/20-Present	**LADOTD Rural Bridge Initiative – LA 376: Bayou Bridges, Louisiana** Assisting with fieldwork and managed projects. This bridge replacement project includes a wetland delineation, permit applications, and threatened and endangered species survey.
08/20-01/22	**LADOTD Rural Bridge Initiative – LA 10 SPUR, LA 1042 Bridges, Near Greensburg, Louisiana** Assisted with fieldwork and managed projects. This bridge replacement project included a wetland delineation and permit applications.
08/20-Present	**LADOTD Rural Bridge Initiative – LA-0016/Wright's Creek, Holden's Creek, Unnamed Drain, Talley's Creek, Berry's Creek, Louisiana** Assisting with fieldwork and managing projects. This bridge replacement project includes a wetland delineation, permit applications, and threatened and endangered species survey.
08/20-01/22	**LADOTD Rural Bridge Initiative – LA 1074, LA 1075 Bridges, Near Rio, Louisiana** Assisted with fieldwork and managed projects. This bridge replacement project included a wetland delineation, permit applications, and threatened and endangered species survey.
08/20-09/21	**LADOTD Rural Bridge Initiative – Graybow Road/Palmetto Creek, Louisiana** Assisted with fieldwork and managed projects. This bridge replacement project included a wetland delineation, permit applications, and threatened and endangered species survey.
08/20-01/22	**LADOTD Rural Bridge Initiative – Loc Road over Borrow Pit, Louisiana** Assisted with fieldwork and managed projects. This bridge replacement project included a wetland delineation, permit applications, and threatened and endangered species survey

16. Staff Experience

Firm employed by: ELOS

Name	**Hunter Perrilloux**	**Years of relevant experience with this employer**	3
Title	Environmental Scientist	**Years of relevant experience with other employer(s)**	4
Degree(s) / Years / Specialization	BS / 2018 / Biology		
Active registration number / state / expiration date	NA		
Year registered	NA	**Discipline**	NA
Contract role(s) / brief description of responsibilities	Environmental and Permitting Services		

Hunter's responsibilities at ELOS have included assisting with phase I and phase II cultural resources surveys, mitigation bank monitoring, endangered species monitoring, and performing wetland delineations. He has performed several wetland delineations, which entail conducting field investigations with the purpose of collecting and processing data. Hunter has also assisted with mitigation bank monitoring efforts as well as eagle nest monitoring.

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 time specified in the applicable MPR(s).
09/20-Present	**LADOTD LA 3234 Extensions to Hammond Airport Environmental Assessment, Hammond, Louisiana** Conducted fieldwork for wetland delineation. This project included a wetland delineation, section 404 and 401 permit applications, cultural resources site visit and report, and threatened and endangered species survey.
08/20-07/21	**LADOTD Rural Bridge Initiative – Jesse B Road Over Bayou Mallet, St. Landry Parish, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation and permit applications.
08/20-07/21	**LADOTD Rural Bridge Initiative – Sandy Creek Bridge, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation and permit applications.
08/20-Present	**LADOTD Rural Bridge Initiative – Beamow Road Over Bayou Maringouin, Pointe Coupee Parish, Louisiana** Conducting fieldwork for this bridge replacement project that includes a wetland delineation and permit applications.
08/20-07/21	**LADOTD Rural Bridge Initiative – Sligo Road Over Walter Creek, Sligo, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation and permit applications.
08/20-Present	**LADOTD Rural Bridge Initiative – Carpenters Bridge Road Over Whiskey Chitto Creek , Allen Parish, Louisiana** Conducting fieldwork for this bridge replacement project that includes a wetland delineation, permit applications, and threatened and endangered species survey.
08/20-03/22	**LADOTD Rural Bridge Initiative – Reeds Bridge Road Over Calcasieu River Relief, Allen Parish, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation, permit applications, and threatened and endangered species survey.
08/20-01/22	**LADOTD Rural Bridge Initiative – Unnamed Waterway Route, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation, permit applications, and threatened and endangered species survey.

16. Staff Experience	
08/20–09/21	**LADOTD Rural Bridge Initiative – LA 321: Creek Bridges, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation, permit applications, and threatened and endangered species survey.
08/20–09/21	**LADOTD Rural Bridge Initiative – LA 404: Bayou and Canal Bridges, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation and permit applications.
08/20–02/22	**LADOTD Rural Bridge Initiative – LA 717: Klondike Canal and Bayou Bridges, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation, permit applications, and threatened and endangered species survey.
08/20–Present	**LADOTD Rural Bridge Initiative – LA 376: Bayou Bridges, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation, permit applications, and threatened and endangered species survey.
08/20–01/22	**LADOTD Rural Bridge Initiative – LA 10 SPUR, LA 1042: Bridges Near Greensburg, Louisiana** Conducted fieldwork. This bridge replacement project included a wetland delineation and permit applications.
08/20–Present	**LADOTD Rural Bridge Initiative – LA-0016/Wright's Creek, Holden's Creek, Unnamed Drain, Talley's Creek, Berry's Creek, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation, permit applications, and threatened and endangered species survey.
08/20–01/22	**LADOTD Rural Bridge Initiative – LA 1074, LA 1075 Bridges, Near Rio, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation, permit applications, and threatened and endangered species survey.

16. Staff Experience			
Firm employed by: ELOS			
Name	**Michael Hill Jr.**	**Years of relevant experience with this employer**	1
Title	Environmental Scientist	**Years of relevant experience with other employer(s)**	3
Degree(s) / Years / Specialization	BS / 2019 / Environmental Science		
Active registration number / state / expiration date	NA		
Year registered	NA	**Discipline**	NA
Contract role(s) / brief description of responsibilities	Environmental and Permitting Services		

Michael responsibilities at ELOS have included assisting with phase I and phase II cultural resources surveys, mitigation bank monitoring, endangered species monitoring, and performing wetland delineations. He has performed several wetland delineations, which entail conducting field investigations with the purpose of collecting and processing data. Michael has also assisted with mitigation bank monitoring efforts.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s).
09/20-Present	**LADOTD LA 3234 Extension to Hammond Airport Environmental Assessment, Hammond, Louisiana** Conducted fieldwork for wetland delineation. This project included a wetland delineation, section 404 and 401 permit applications, cultural resources site visit and report, and threatened and endangered species survey.
08/20-Present	**LADOTD Rural Bridge Initiative – Beamow Road Over Bayou Maringouin, Louisiana** Conducting fieldwork for this bridge replacement project that includes a wetland delineation and permit applications.
08/20-Present	**LADOTD Rural Bridge Initiative – Carpenters Bridge Road Over Whiskey Chitto Creek, Louisiana** Conducting fieldwork for this bridge replacement project that includes a wetland delineation, permit applications, and threatened and endangered species survey.
08/20-03/22	**LADOTD Rural Bridge Initiative – Reeds Bridge Road Over Calcasieu River Relief, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation, permit applications, and threatened and endangered species survey.
08/20-01/22	**LADOTD Rural Bridge Initiative – Unnamed Waterway Route, Louisiana** Conducting fieldwork for this bridge replacement project that includes a wetland delineation, permit applications, and threatened and endangered species survey.
08/20-09/21	**LADOTD Rural Bridge Initiative – LA 321: Creek Bridges, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation, permit applications, and threatened and endangered species survey.
08/20-09/21	**LADOTD Rural Bridge Initiative – LA 404: Bayou and Canal Bridges, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation and permit applications.
08/20-02/22	**LADOTD Rural Bridge Initiative – LA 717: Klondike Canal and Bayou Bridges, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation, permit applications, and threatened and endangered species survey.

16. Staff Experience	
08/20–Present	**LADOTD Rural Bridge Initiative – LA 376: Bayou Bridges, Louisiana** Conducting fieldwork for this bridge replacement project that includes a wetland delineation, permit applications, and threatened and endangered species survey.
08/20–01/22	**LADOTD Rural Bridge Initiative – LA 10 SPUR, LA 1042 Bridges, Near Greensburg, Louisiana** Conducted fieldwork for this bridge replacement project that includes a wetland delineation and permit applications.
08/20–Present	**LADOTD Rural Bridge Initiative – LA-0016/Wright's Creek, Holden's Creek, Unnamed Drain, Talley's Creek, Berry's Creek, Louisiana** Conducting fieldwork for this bridge replacement project that includes a wetland delineation, permit applications, and threatened and endangered species survey.
08/20–01/22	**LADOTD Rural Bridge Initiative – LA 1074, LA 1075 Bridges, Near Rio, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation, permit applications, and threatened and endangered species survey.
08/20–09/21	**LADOTD Rural Bridge Initiative – Graybow Road/Palmetto Creek, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation, permit applications, and threatened and endangered species survey.
08/20–01/22	**LADOTD Rural Bridge Initiative – Loc Road Over Borrow Pit, Louisiana** Conducted fieldwork for this bridge replacement project that included a wetland delineation, permit applications, and threatened and endangered species survey.

16. Staff Experience			
Firm employed by: ELOS			
Name	**Jesse McQuigg**	**Years of relevant experience with this employer**	7
Title	GIS Manager	**Years of relevant experience with other employer(s)**	2
Degree(s) / Years / Specialization	AAS / 2014 / Drafting Design		
Active registration number / state / expiration date	NA		
Year registered	NA	**Discipline**	NA
Contract role(s) / brief description of responsibilities	Environmental and Permitting Services		
Jesse has experience with ArcGIS Online, Collector of ArcGIS, Survey 123, Expert GPS, BaseCamp, and Google Earth. With the use of these software programs, he collects and interprets field data in support of environmental analyses and impact assessments. Jesse is responsible for leading the GIS team to collect data and create maps. The figures and maps he and his staff generate are vital to the development of NEPA documentation, Threatened and Endangered (T&E) Species Surveys, Wetlands Delineations and Jurisdictional Determinations, Phase I Environmental Site Assessments, Section 404/10 and Coastal Use Permit applications, and wetlands assessment models.			

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 time specified in the applicable MPR(s).**
09/20-Present	**LADOTD LA 3234 Extension to Hammond Airport Environmental Assessment, Hammond, Louisiana** GIS manager responsible for managing and conducting data collection from multiple sources to establish field data collection points for the wetland's delineation and habitat identification through soil and terrain types. Processed GPS coordinates identifying the location of sample plots and sensitive areas that were provided to the client as GIS shapefiles for use in a comparative impact analysis.
08/20-Present	**LADOTD Rural Bridge Initiative – LA 376 Bayou Bridges, Louisiana** Responsible for the oversight of conducting maps for all work associated for the permit application packets to the USACE and Louisiana Department of Natural Resources (DNR) for Section 10/404 authorization, or Coastal Use Permits. Processed GPS coordinates identifying the location of sample plots and sensitive areas that were provided to the client as GIS shapefiles for use in a comparative impact analysis.

Section 17:
Firm Experience

17. Firm Experience					
Firm name	HNTB		Past Performance Evaluation Discipline(s)	Bridge	
Project name	LA 3250: I-49/UPRR OVERPASS REPAIR			Firm responsibility (prime or sub?)	Prime
Project number	H.014324		Owner's name	LADOTD	
Project location	Alexandria, LA		Owner's Project Manager	Chris Guidry, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 / 225.379.1328 / chris.guidry@la.gov				
Services commenced by this firm (mm/yy)	05/20		Total consultant contract cost ($1,000's)	$296	
Services completed by this firm (mm/yy)	05/22		Total consultant services provided by this firm ($1,000's)	$281	

An over-height vehicle traveling in the southbound lane of I-49 struck the bridge carrying LA 3250 (Sugarhouse Road.). The LADOTD performed an emergency inspection that day and determined that the exterior girder was beyond repair. HNTB was contracted to perform a damage assessment of the structure and prepare a traditional set of girder replacement plans. In July of 2020, HNTB performed the damage assessment of the vehicle impact. During the assessment, it was determined that the third interior girder was also severely damaged and would need to be replaced as well.

HNTB proposed replacing the first three girders as a segment. Working within the existing scope and fee, HNTB changed the design concept to utilize accelerated bridge construction methods to replace the three-girder segment. The new three girder segment was designed to be lifted with self-propelled modular transport vehicles (SMPTs). The removal plan and replacement plan were developed in conjunction to allow for efficient and easy placement of the new span segment.

The structure carries LA 3250 over I-49 and the Union Pacific railroad. It is 1,188-feet-long and is made up of prestressed concrete girder spans. The affected span (span 11) was the third span of a three span continuous unit, joined by cast-in-place concrete continuity diaphragms.

To remove the existing segment, the deck was sawcut at the removal limits, the continuity diaphragms were chipped out, the interior and end diaphragms between girders three and four were removed, all while protected any existing rebar to remain. The segment was then lifted with the SMPT and brought to the breakdown area. The next day, the new preconstructed segment was lifted from its temporary supports and moved into place. The removal and replacement operation was done under a temporary weekend closure of I-49.

RELEVANCY

- Bridge Girder Replacement
- Accelerated Bridge Construction
- Condition Assessment Inspection
- On Site Construction Support
- Condensed Schedule Task Order

The span affected by the hit was made up of 13 Type IV-S girders. The Type IV-S girders have the same depth as a Type IV with slimer web and flanges. It was decided that standard Type IV girder would be used for the new segment due to availability issues with the Type IV-S. Because the new girders are wider than the existing, anchor bolts had to be relocated outside the existing risers. A detail to reconfigure the clip angles and anchor bolt locations was developed to allow for the wider girders.

The deck of the new preconstructed segment was detailed so that the new rebar would not interfere with the existing rebar when the segment was moved into place with the SPMT. Transverse reinforcing was moved one half bar spacing over to allow it to fit between the existing bars. Longitudinal bars would be placed to butt up against the existing longitudinal bars that were cut for removal. Splice bars were then placed to provide the continuity. The new diaphragms were poured, followed by the deck closure pour to complete the repair.

Key Staff: Josh Porter, Dusty Bastion, Marc Hoffmann, Ben Goodner, Nicholas Hart, Kate Prejean

17. Firm Experience					
Firm name	HNTB	Past Performance Evaluation Discipline(s)		Bridge	
Project name	U.S. 80 OVER I-20 BRIDGE REPLACEMENT		Firm responsibility (prime or sub?)	Prime	
Project number	H.010012	Owner's name	LADOTD		
Project location	Calhoun, Louisiana	Owner's Project Manager	Stephanie Doolittle, PE		
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 / (225) 379-1328 / stephanie.doolittle@la.gov				
Services commenced by this firm (mm/yy)	01/17	Total consultant contract cost ($1,000's)		$465	
Services completed by this firm (mm/yy)	05/19	Total consultant services provided by this firm ($1,000's)		$443	

The LADOTD identified the U.S. 80 bridge crossing I-20 near Calhoun as a structure deteriorating beyond what was considered repairable. U.S. 80 provides a critical route for local rural traffic west of Monroe, Louisiana. I-20 is a vital corridor for interstate traffic across the southeastern United States, as well as the main thoroughfare of northern Louisiana. As a result, it was decided that ABC techniques would be used to limit the disruption of traffic flows.

HNTB was tasked with developing final plans for a two-span, 290-foot steel girder bridge crossing I-20 to replace the existing six-span structure. The superstructure would be built off alignment and moved into place using SPMT. **Because of these innovations, I-20 only required two weekend-long closures to complete the demolition and construction**. The closures use the existing on- and off-ramps of the exit to detour traffic around the work zone. While construction of the new spans was taking place, the existing U.S. 80 structure was demolished during the first weekend closure of I-20. After demolition, I-20 reopened to traffic and construction of the substructures began. After completion of the substructures, MSE walls, approach roadways and steel spans, I-20 closed for a second weekend to move the spans into place. After the spans were put into their final location, I-20 reopened and the final construction tasks were completed.

Prior to final design, HNTB's bridge staff investigated several superstructure layouts to identify the best configuration for the unique requirements of the project. Structure depth was limited due to several site constraints. The nearby ramps could not be moved due to significant additional costs. It was also preferable to place the substructures outside the clear zone. This created a long span with less than the preferred structure depth. Varying girder spacings and depths, as well as continuous and simple span configurations, were considered. The final design was performed with analysis and consideration for the unique construction. Plans were developed to specify the construction methods required by the contractor. Construction was completed in late 2021.

RELEVANCY

- Bridge Replacement
- Accelerated Bridge Construction
- On Site Construction Support
- Drilled Shaft Geotechnical Design
- MSE Wall Design
- Steel Plate Girder Design

Key Staff: Josh Porter, Dusty Bastion, John Bernard, Ben Goodner, Brian Powell, Jared Sommers, Branan Steib

17. Firm Experience

Firm name	HNTB	**Past Performance Evaluation Discipline(s)**	Bridge
Project name	**U.S. 90 ATCHAFALAYA RIVER BRIDGE REPAIRS**	**Firm responsibility (prime or sub?)**	Prime
Project number	H.011494	**Owner's name**	LADOTD
Project location	Morgan City, Louisiana	**Owner's Project Manager**	Chris Guidry, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 / (225) 379-1328 / chris.guidry@la.gov		
Services commenced by this firm (mm/yy)	05/17	**Total consultant contract cost ($1,000's)**	$573
Services completed by this firm (mm/yy)	Ongoing	**Total consultant services provided by this firm ($1,000's)**	$512

HNTB performed an in-depth NBIS inspection on the U.S. 90 Atchafalaya River Bridge, a long-span structure that includes a 1,840-foot through-truss structure. This critical link between Lafayette and New Orleans carries four lanes of vehicular traffic via U.S. 90.

HNTB's inspection included both the through-truss span and approaches (6,617 feet) and included hands-on inspection of the truss members, floorbeams, stringers, trestle bents, deck and other miscellaneous components. Inspection also included ultrasonic testing of fracture critical pins, and coating corrosion assessment.

HNTB was tasked with developing final plans to paint and perform repairs to the through- truss structure. **By using detailed field notes from the in-depth inspection, HNTB was able to accurately determine repair quantities and locations without the need for additional site visits**. In addition to painting, structural repairs included 46 bottom chord angle replacements, four bottom chord diaphragm replacements, 13 tension member splice plate replacements, eight compression member splice plate replacements, 36 gusset plate retrofits, eight false chord retrofits, 14 lower lateral connection plate replacements, 103 drain hole modifications and almost 3,000 structural bolt replacements. Additionally, HNTB developed electrical plans to replace the navigation lighting system. **Knowing how challenging it can be to track work on large projects such as, this HNTB developed most structural repairs to be paid as "per each" items. This allowed LADOTD construction inspectors a simplified way to track repairs and reimburse the contractor for work completed**.

RELEVANCY

- In-Depth NBIS Inspection
- Repair Recommendations
- Bridge Rehabilitation
- Bridge Repainting and Coatings Assessment
- Construction Support Services

To maintain vehicular traffic on the structure during painting operations, HNTB roadway and bridge engineers developed a scheme to allow one lane of traffic in each direction to flow unencumbered during construction. By using a rigid containment system which is protected by temporary precast concrete barriers, vehicles pass through a tunnel in the containment system while work occurred around them. This plan allows for ease of vehicular movement while also allowing the contractor adequate room to perform the work.

HNTB's inspection, plan development and coordination efforts paid off as project bids came in significantly under the allocated budget. HNTB is currently providing construction-related support services and is actively participating in construction coordination meetings. Construction is anticipated to be complete in mid-2022.

Key Staff: Patrick Roth, Dusty Bastion, John Bernard, Ben Goodner, Josh Porter, Nicholas Hart, Paul Hunter, Kate Prejean, Branan Steib

17. Firm Experience					
Firm name	HNTB	Past Performance Evaluation Discipline(s)		Bridge	
Project name	I-20 OVERPASSES REHABILITATION		Firm responsibility (prime or sub?)		Prime
Project number	H.003263	Owner's name	LADOTD		
Project location	Bossier City, Louisiana	Owner's Project Manager	Kelly Kemp, PE		
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 / (225) 379-1809 / kelly.kemp@la.gov				
Services commenced by this firm (mm/yy)	10/11	Total consultant contract cost ($1,000's)			$1,114
Services completed by this firm (mm/yy)	08/19	Total consultant services provided by this firm ($1,000's)			$1,030

As a part of a four-year 2011 bridge preventive maintenance retainer, HNTB was tasked to assist LADOTD Bridge Design with Stage 3 and Stage 5 services for seven overpasses (14 bridge structures) on I-20 between Westerfield Drive and Industrial Boulevard.

Stage 3 services included condition inspection and repair recommendations for all bridges, preliminary and final plans, paint assessment coordination with the district, construction cost estimate and constructibility/bidability review forms. Project scope included cleaning and painting structural steel, substructure special surface finish, approach slab and abutment backwall replacement using ABC methods, steel bearing assembly realignment and structural concrete patching.

As part of the overall project, LADOTD road designers planned on replacing the roadway between the bridge sites; however, FHWA decided not to participate in the project after 100% plans were finalized due to concerns with the construction schedule and impacts to traffic. HNTB revised the plans to only include the necessary bridge rehabilitation and developed a Level 4 traffic management plan (TMP) that minimized impacts to traffic by using ABC.

HNTB developed plans to replace a failing abutment backwall and approach slab over three weekend periods using precast elements and high early strength concretes. **As a leader in ABC techniques, HNTB drew on lessons learned from similar projects and best practices from national resources to ensure achievement of a timely construction schedule and durable final product**. In order to fit work into weekend closures, unique construction concepts were utilized. The abutment backwall was connected to the existing cap using vertical rebar dowels which were grouted into place. The need for embankment compaction was eliminated using flowable fill beneath the approach slab allowing formwork and rebar layout to occur shortly after the flowable fill placement.

RELEVANCY

- Bridge Rehabilitation
- Bridge Repainting and Coatings Assessment
- Accelerated Bridge Construction
- Level 4 TMP
- On-Site Construction Support

Abutment backwall and approach slab replacement work was successfully completed in 2018. During construction, HNTB staff assisted the district's construction inspection personnel to ensure no decision-making delays occurred, and timely field adjustments could be made during the weekend closure window.

Key Staff: Dusty Bastion, John Bernard, Ben Goodner, Josh Porter, Kate Prejean

17. Firm Experience					
Firm name	HNTB		Past Performance Evaluation Discipline(s)	Bridge	
Project name	I-10 EASTBOUND VETERANS BOULEVARD BRIDGE (FIRE REPAIR)		Firm responsibility (prime or sub?)	Prime	
Project number	H.013840		Owner's name	LADOTD	
Project location	New Orleans, Louisiana		Owner's Project Manager	Heather Patton, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 / (225) 379-1328 / heather.patton@la.gov				
Services commenced by this firm (mm/yy)	01/19		Total consultant contract cost ($1,000's)	$161	
Services completed by this firm (mm/yy)	11/19		Total consultant services provided by this firm ($1,000's)	$142	

As part of its recent five-year bridge preservation retainer, HNTB was assigned this bridge repair project as a result of a truck fire which occurred in very close proximity to the bridge. The I-10 eastbound bridge over Veterans Boulevard carries three lanes of traffic along a heavily congested section of interstate near New Orleans. This repair project, considered a high priority, included issuance of an advance notice to proceed in order to initiate repair work as quickly as possible. After contacted by LADOTD, **HNTB was able to develop scope and fee documents, come to an agreement with LADOTD regarding contract amount and start working on this project within one week**.

Project work included field evaluation of the fire damaged slab span and its adjacent bents, assessment of damages and repair options, and final plan development based on selected repair option, including temporary traffic control layouts and a maintenance of traffic special provision. After field investigation was completed, it was determined that the fire damaged portion of the slab span required replacement, and areas of spalled and fire damaged concrete in the adjacent bents required structural concrete patching. Conventional cast-in-place and ABC precast repair options were proposed, but due to traffic volumes, the ABC precast repair option was selected. Plans were developed to perform all span repair work in one weekend-long closure period using two precast panel segments with high early strength concrete closure pours. During a second weekend closure to cast the curb and rail barrier, additional barrier rail repairs on the structure were performed which were caused by past vehicular impacts. This additional work will save District 02 from having to perform these repairs under another separate project.

Notice to proceed as was issued in January 2019, final plans package was delivered in May 2019, and the project was let in July 2019. Construction was completed in November 2019 and HNTB provided construction support for the full duration. Additionally, during construction, HNTB staff assisted the district's construction inspection personnel to ensure no decision-making delays occurred, and timely field adjustments could be made during the weekend closure window.

RELEVANCY

- Bridge Rehabilitation
- Accelerated Bridge Construction
- Condensed Schedule Task Order
- On-Site Construction Support

Key Staff: Dusty Bastion, Patrick Roth, John Bernard, Ben Goodner, Marc Hoffmann, Aravind Tankasala, Josh Porter, Kate Prejean

17. Firm Experience					
Firm name	**Ardaman & Associates, Inc.**		Past Performance Evaluation Discipline(s)*	Geotechnical	
Project name	**RURAL BRIDGES PHASE 1**		Firm responsibility (prime or sub?)	Subconsultant	
Project number	700-29-0112 700-29-0130 H.013948, H.013985, H.013942, H.013979, H.013987, H.013988	Owner's name	LADOTD		
Project location	Avoyelles and Claiborne Parishes, LA	Owner's Project Manager	Valerie Tourres		
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 / (225) 379-1100 / Valerie.Tourres@la.gov				
Services commenced by this firm (mm/yy)	03/21	Total consultant contract cost ($1,000's)	$2,500		
Services completed by this firm (mm/yy)	Ongoing	Total consultant services provided by this firm ($1,000's)	$676		

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
***If there is more than one past performance evaluation category included in the advertisement, then indicate which past performance evaluation category(ies) this project is being used to represent.**

This project consisted of the replacement of multiple small two lane rural bridges throughout Central and North Louisiana which generally ranged in length from 100-200 feet, mainly over small rivers and creeks. Ardaman was retained by the LADOTD at the beginning of the project in 2020 and the project is currently ongoing. The scope of services included:

- Geotechnical ield exploration (field reconnaissance, utility location, mobilization/demobilization, GPS location/elevation); consisting of 31 borings to about 110 ft. below existing ground surface or pavement surface.
- Geotechnical laboratory testing services; and
- Geotechnical design.

In addition to the vast scope of field investigation that included deep borings and laboratory testing, the scope of services for this project also included pile foundation design, slope stability, drivability, and settlement analyses.

Key Staff: Robert Jewell, Jim Porter, Megan Bourgeois, Albert Ayenu-Prah, Jarmon King, Chandler Willis

17. Firm Experience					
Firm name	**Ardaman & Associates, Inc.**		Past Performance Evaluation Discipline(s)*	Geotechnical	
Project name	**I-20 MISSISSIPPI RIVER BRIDGE REVIEW**			Firm responsibility (prime or sub?)	Prime
Project number	H.004646.5		Owner's name	LADOTD	
Project location	Madison Parish, Louisiana		Owner's Project Manager	Chris Nickel	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 / (225) 379-1100 / Chris.Nickel@la.gov				
Services commenced by this firm (mm/yy)	10/09		Total consultant contract cost ($1,000's)	$2,900	
Services completed by this firm (mm/yy)	03/18		Total consultant services provided by this firm ($1,000's)	$2,900	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
***If there is more than one past performance evaluation category included in the advertisement, then indicate which past performance evaluation category(ies) this project is being used to represent.**

Ardaman conducted a geotechnical study to develop a list of technically feasible remedial alternatives to decrease the potential for ground movements to occur at the site of the I-20 Bridge. Movement of the east abutment of the bridge was first realized in 2001 during an inspection. Over the years Mississippi DOT has retained several consultants who have studied the problem, but no viable solution was identified.

Ardaman conducted a comprehensive review of past slope stability evaluations and recommendations. This task was followed by developing a refined geotechnical site characterization plan for the bank/bluff area for further analyses. Drilling operations included obtaining extremely sensitive samples containing prehistoric shear planes from the river via barge and on land, all with extremely difficult access conditions. The drilling program also included installation of geotechnical instrumentation such as Shape Accelerator Arrays, inclinometers and vibrating wire piezometers. Engineering analyses performed included seepage and drawdown analyses and both equilibrium and finite element numerical modeling slope stability analyses.

Key Staff: Megan Bourgeois, Robert Jewell, Albert Ayenu-Prah, Jim Porter, Chandler Willis

17. Firm Experience					
Firm name	**Civix**		**Past Performance Evaluation Discipline(s)***	Survey	
Project name	**BABIN ROAD OFF SYSTEM BRIDGE PROJECT**			**Firm responsibility (prime or sub?)**	Subconsultant
Project number	H.1011540		**Owner's name**	Ascension Parish c/o HNTB	
Project location	Ascension Parish, Louisiana		**Owner's Project Manager**	Jeff Burst	
Owner's address, phone, email	10000 Perkins Rowe, Baton Rouge, LA 70810 / (225) 368-2869 / jburst@HNTB.com				
Services commenced by this firm (mm/yy)	09/17		**Total consultant contract cost ($1,000's)**	$80	
Services completed by this firm (mm/yy)	08/18		**Total consultant services provided by this firm ($1,000's)**	$65	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
***If there is more than one past performance evaluation category included in the advertisement, then indicate which past performance evaluation category(ies) this project is being used to represent.**

Ascension Parish Government and HNTB Corporation selected Civix as the lead right-of-way consultant for the Move Ascension Initiative. The $35 million-dollar transportation infrastructure improvement program is developed to safely move traffic within Ascension Parish through the design and construction of roadway improvement projects identified during the Master Transportation Planning development phase. This multi-year initiative is Civix's first large-scale right of way assignment in Ascension Parish. Civix has successfully completed acquisitions for nine projects acquiring nearly 200 parcels with less than 1% of expropriations required. Civix is currently providing turnkey right-of-way acquisition and relocation services for six additional projects. Additionally, Civix developed the Ascension Parish Right of Way Acquisition Implementation Plan in compliance with state and federal policies. The plan consists of right-of-way acquisition procedures, forms, templates and procedural instructions to ensure compliance with the Uniform Relocation Act.

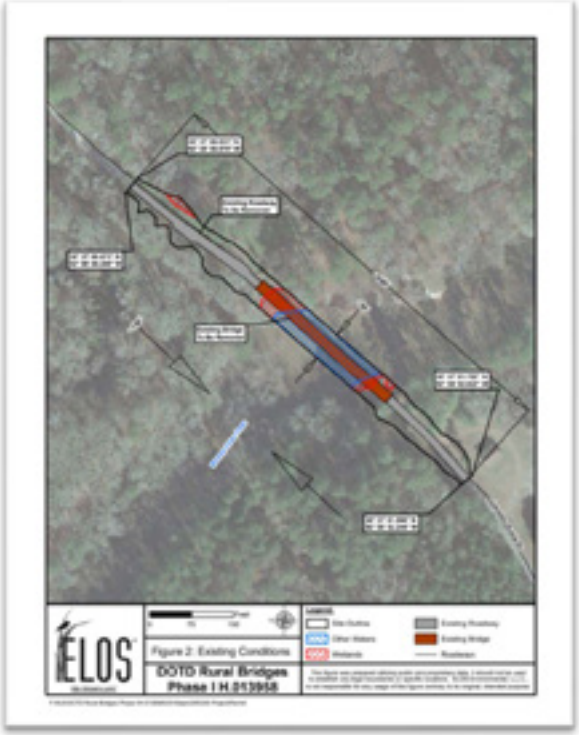
Key Staff: Mona Nosari, Hubert Graves

17. Firm Experience					
Firm name	ELOS Environmental, LLC		Past Performance Evaluation Discipline(s)*	Planning	
Project name	CARPENTER'S BRIDGE OVER WHISKY CHITTO CREEK		Firm responsibility (prime or sub?)	Subconsultant	
Project number	H.013958	Owner's name	LADOTD		
Project location	Kinder, LA	Owner's Project Manager	Andrew Rank, PE		
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 / (225) 379-1232 / dotdcs@la.gov				
Services commenced by this firm (mm/yy)	08/20	Total consultant contract cost ($1,000's)	$16		
Services completed by this firm (mm/yy)	N/A	Total consultant services provided by this firm ($1,000's)	$16		

ELOS was contracted by Burke-Kleinpeter to provide environmental services for the improvement of LADOTD Rural Bridges Phase I projects. Carpenter's Bridge Over Whisky Chitto Creek is one of the bridges part of the Phase I projects. The LADOTD is proposing the replacement of the existing bridge on Carpenters Bridge Road over Whiskey Chitto Creek in Allen Parish. The purpose of the project is to continue to provide access across Whiskey Chitto Creek on Carpenters Bridge Road. The proposed action will occur on the existing bridge footprint. The proposed action is to replace the existing bridge with a new timber treated trestle bridge with seven, 46-foot spans (322-feet total) designed in accordance with current LADOTD and AASHTO guidelines.

This project includes a wetland delineation and jurisdictional determination from the USACE, a Section 404 permit from the USACE, a scenic rivers and streams permit from the LDWF, and a threatened and endangered species surveys for the alligator snapping turtle. ELOS was also tasked with preparing and mailing the solicitation of views letters to the relevant agencies and responding to comments. This project qualifies for a categorical exclusion (CATEX), meaning a detailed environmental analysis will not be required. ELOS will prepare and submit the CATEX documentation.

Key Staff: Cory Ricks, Hunter Perrilloux, Michael Hill, Jr.



17. Firm Experience					
Firm name	Forte & Tablada		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	RETAINER CONTRACT FOR OFF-SYSTEM COMPLEX BRIDGE LOAD RATING – T01		Firm responsibility (prime or sub?)	Prime	
Project number	S.P. No. H.009859.5		Owner's name	LADOTD	
Project location	Statewide, LA		Owner's Project Manager	Dana Feng, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 / (225) 379-1200 / Dana.Feng@LA.gov				
Services commenced by this firm (mm/yy)	01/18		Total consultant contract cost ($1,000's)	$1,316	
Services completed by this firm (mm/yy)	02/19		Total consultant services provided by this firm ($1,000's)	$1,136	

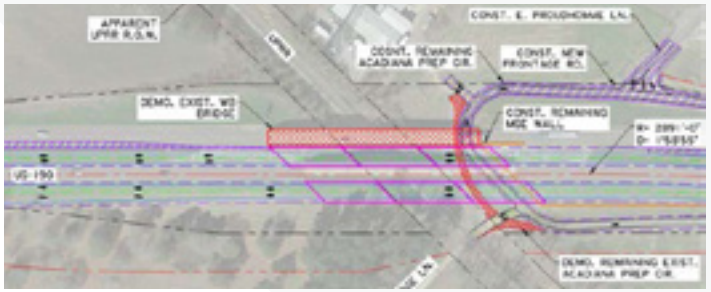
As part of a Load Rating retainer contract with LADOTD, Forte and Tablada was tasked with inspecting and load rating 12 complex off-system complex bridges statewide. The type of bridges included nine movable bridges (including vertical lift and swing-spans), a steel truss bridge, and two ferry access bridges that were composed of steel truss, movable, and pontoon spans. Where existing plans were not available, 3D laser scanning was utilized to capture complicated geometry and to assist in the load rating and in the development of bridge load rating plans. The inspection also included the use of an ultrasonic thickness gage to verify member thickness, as well as detailed measurements to determine connection details. The scope of work also included the submittal of an Inspection Report and a Load Rating Report in accordance with the requirements of the LADOTD Bridge Design and Evaluation Manual (BDEM).

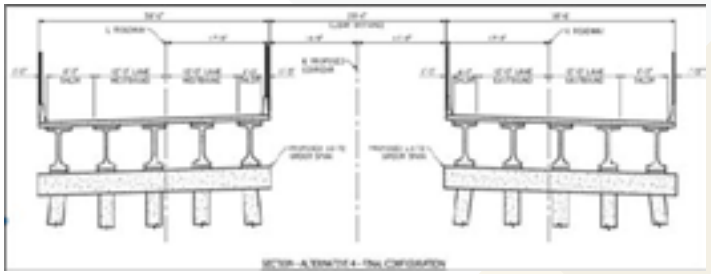
Key Staff: Joey Coco, Jr.; Joffrey Easley

17. Firm Experience					
Firm name	**Forte & Tablada**		Past Performance Evaluation Discipline(s)*	Bridge, Road	
Project name	**RETAINER FOR BRIDGE PRESERVATION TASK ORDER 2- US 190 OVER UPRR AND LITTLE TECHE BAYOU**		Firm responsibility (prime or sub?)	Subconsultant	
Project number	H.000445		Owner's name	LADOTD c/o HNTB	
Project location	St. Landry Parish, LA		Owner's Project Manager	Dusty Bastion, PE (HNTB)	
Owner's address, phone, email	1000 Perkins Rowe, Suite 640, Baton Rouge, LA 70810 / (225) 368-2810 / dbastion@HNTB.com				
Services commenced by this firm (mm/yy)	10/18		Total consultant contract cost ($1,000's)	$207	
Services completed by this firm (mm/yy)	05/19		Total consultant services provided by this firm ($1,000's)	$147	

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

Key Staff: Allison Schilling; Joffrey Easley





17. Firm Experience					
Firm name	**Forte & Tablada**		Past Performance Evaluation Discipline(s)*	Survey	
Project name	**SUNSHINE BRIDGE EMERGENCY REPAIR**			Firm responsibility (prime or sub?)	Subconsultant
Project number	4400010587		Owner's name	LADOTD	
Project location	St. James Parish, Louisiana		Owner's Project Manager	Stanley Ard	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 / (225) 379-1292 / Stanley.Ard@la.gov				
Services commenced by this firm (mm/yy)	10/18		Total consultant contract cost ($1,000's)	Unknown	
Services completed by this firm (mm/yy)	12/18		Total consultant services provided by this firm ($1,000's)	$618	

Forte and Tablada provided topographic surveying and terrestrial LIDAR services for the LADOTD Sunshine Bridge Emergency Repair project following the severe impact of a barge mounted crane with the lowest horizontal bridge chord. The severity of the structural damage forced the closure of the bridge resulting in disruption and re-routing of a large volume of industrial and general population motorists. Due to the elimination of this major corridor for commerce and its consequences, an expeditious and time efficient rehabilitation was paramount. Forte and Tablada worked with a design team to formulate a practical solution for obtaining advanced measurements that were unachievable with traditional measuring practices which were required for the structural analysis and repair design for the bridge. Forte and Tablada surmounted the challenges of the repair effort through the use of LIDAR techniques employing innovative applications to provide the necessary data for the bridge repair analysis and inventive construction of an apparatus needed to apply these techniques.

Key Staff: Joey Coco, Jr.; Ross Wilson

17. Firm Experience					
Firm name	**KGC Environmental Services, Inc.**		Past Performance Evaluation Discipline(s)*	CE&I/OV	
Project name	**U.S. 84 WEST/NATCHEZ-VIDALIA MISSISSIPPI RIVER BRIDGE**		Firm responsibility (prime or sub?)	Subconsultant	
Project number	MDOT 55932 DS-005	Owner's name	MDOT		
Project location	New Orleans, Louisiana	Owner's Project Manager	Nellie Wimberly		
Owner's address, phone, email	401 North West Street Jackson, MS 39201 / (601) 445-8351 / nwimberly@mdot.ms.gov				
Services commenced by this firm (mm/yy)	08/13	Total consultant contract cost ($1,000's)	$9		
Services completed by this firm (mm/yy)	08/13	Total consultant services provided by this firm ($1,000's)	$9		

Performed a comprehensive coatings evaluation of the entire bridge to determine the condition of the existing coatings and recommended alternatives for coating rehabilitation of this major Mississippi River Bridge crossing to provide continued corrosion protection for the structure. Scope also included comprehensive sampling of the existing coating system for the presence of heavy metals.

Key Staff: Kevin Guth; Chris Price

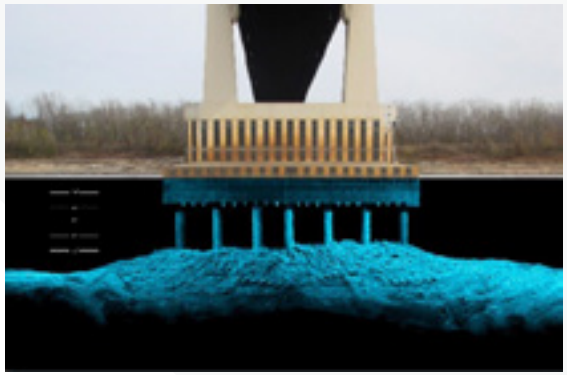
17. Firm Experience					
Firm name	**Moffatt & Nichol, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	**IDIQ FOR IN-DEPTH INSPECTION OF COMPLEX BRIDGES**		Firm responsibility (prime or sub?)	Subconsultant	
Project number	4400009104	Owner's name	LADOTD		
Project location	Statewide, Louisiana	Owner's Project Manager	Stephanie Doolittle, PE		
Owner's address, phone, email	1212 East Highway Drive, Baton Rouge, Louisiana 70802 / 225.379.1500 / jasmine.galjour@la.gov				
Services commenced by this firm (mm/yy)	03/20	Total consultant contract cost ($1,000's)	$5,000		
Services completed by this firm (mm/yy)	Ongoing	Total consultant services provided by this firm ($1,000's)	$600		

As part of the current five-year retainer contract, Moffatt & Nichol has and is performing the in- depth bridge inspections on complex and movable bridges throughout Louisiana. As a major subconsultant, Moffatt & Nichol is performing complete in-depth inspections (fulfilling both routine & fracture critical inspection types). Level III inspections of submerged elements in accordance with the FHWA, BIRM, AASHTO MBE, AASHTO BEIM, and the LADOTD Bridge Inspection Manual (BIM) are being provided as needed. Bridge types include cantilever trusses, cable-stayed bridges, movable swing span bridges, and bascule bridges. Management, communication, and implementation of the QC plan is an instrumental component to this project.

- Moffatt & Nichol performed the routine in-depth inspection of the Audubon Bridge, specifically to inspect 136 main cables and four 450-ft-high concrete towers. Professional rope access techniques were used to safely access each cable within arm's reach. Element quantities were recalculated, and additional defects were added with repair recommendations, but no serious deficiencies or critical findings were present.
- Moffatt & Nichol performed the in-depth, routine, and fracture critical NBIS inspection of the Horace Wilkinson Bridge, specifically to inspect the main truss spans above the guardrail. Professional rope access techniques were used to safely access each non-redundant steel tension member. Element quantities were recalculated, and additional defects were added, but no serious deficiencies or critical findings were present. This is the first inspection to be completed without requiring lane closure; its success will afford consultant use for all biennial inspections.
- Moffatt & Nichol performed the in-depth, routine, and fracture critical inspections of the Greater New Orleans Bridges and the Green Bridge, specifically to inspect the main truss spans. Professional rope access techniques were used to safely access each non-redundant steel tension member. Element quantities were updated, and additional defects were added with repair recommendations.
- Moffatt & Nichol performed the in-depth and routine inspection of the Luling Bridge, specifically to inspect all bladders at the upper Gensui Dampers and at the lower friction dampers at 72 cables. Professional rope access techniques were used to safely access each cable within arm's reach.

Key Staff: Chace Hulon, Steven Armstrong, Jeffrey Gazarek, Joshua Martinez

17. Firm Experience					
Firm name	**Moffatt & Nichol, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	**2017 RETAINER CONTRACT FOR UNDERWATER BRIDGE INSPECTIONS**		Firm responsibility (prime or sub?)	Prime	
Project number	4400009104	Owner's name	LADOTD		
Project location	Statewide, Louisiana	Owner's Project Manager	Haylye Brown, PE		
Owner's address, phone, email	1212 East Highway Drive, Baton Rouge, Louisiana 70802 / 225.379.1500 / jasmine.galjour@la.gov				
Services commenced by this firm (mm/yy)	06/17	Total consultant contract cost ($1,000's)	$1,346		
Services completed by this firm (mm/yy)	12/21	Total consultant services provided by this firm ($1,000's)	$980		



In June 2017, Moffatt & Nichol began a four-year statewide retainer contract with LADOTD to provide Levels I, II, and III NBIS underwater bridge inspections throughout Louisiana. All inspections were completed in accordance with current FHWA, CFR, AASHTO, and LADOTD standards and guidelines. Moffatt & Nichol has performed over 215 underwater bridge inspections under this contract and over 900 inspections total. For each inspection, Moffatt & Nichol provided a detailed inspection report within 30 days and entered inspection data into LADOTD's asset management tool (AssetWise). As part of Moffatt & Nichol's quality control process, each inspection report was reviewed a minimum of three times, with subsequent reviews performed by team members with increasing levels of experience/ qualifications.

Of particular note, Moffatt & Nichol was tasked with the development of the first comprehensive Bridge Inspection Manual (BIM) for LADOTD Bridge Program. Chace Hulon, PE, was Chief Editor. The BIM is designed as a single, centralized reference manual and aligns the goals of the Bridge Inspection Office Headquarters with all nine DOTD districts. It also allows for better communication and quality management between the DOTD project managers, their local bridge owners, and their consultants.

The BIM was designed to be used electronically on tablets as a reference file accessible to all DOTD bridge inspection team leaders. It includes nine chapters intuitively ordered in a systemic fashion with hyperlinks throughout for quick referencing to vital documents. It also allows for documented annual revisions or critical updates following federal policy changes.

Moffatt & Nichol compiled all DOTD reference material, outlined the BIM, held routine (weekly) progress meetings with DOTD PM, FHWA representative, & subject matter experts on the committee, provided statewide programmatic guidance with a national perspective, verified compliance with FHWA's 23 National Bridge Inspection Program Metrics, & presented BIM at a DOTD statewide conference.

Key Staff: Chace Hulon, Steven Armstrong, Joshua Martinez, Jeffrey Gazarek

17. Firm Experience					
Firm name	NTB Associates, Inc.		Past Performance Evaluation Discipline(s)*	Survey	
Project name	RURAL BRIDGE REPLACEMENT INITIATIVE PHASE II		Firm responsibility (prime or sub?)	Subconsultant	
Project number	4400019337	Owner's name	LADOTD / Burk-Kleinpeter, Inc.		
Project location	Districts 05, 08, and 58	Owner's Project Manager	Nicholas Matherne		
Owner's address, phone, email	4176 Canal Street, New Orleans, LA 70119 / (504) 486-5901 / nmatherne@bkiusa.com				
Services commenced by this firm (mm/yy)	08/21	Total consultant contract cost ($1,000's)	$1,364		
Services completed by this firm (mm/yy)	Ongoing	Total consultant services provided by this firm ($1,000's)	$1,364		

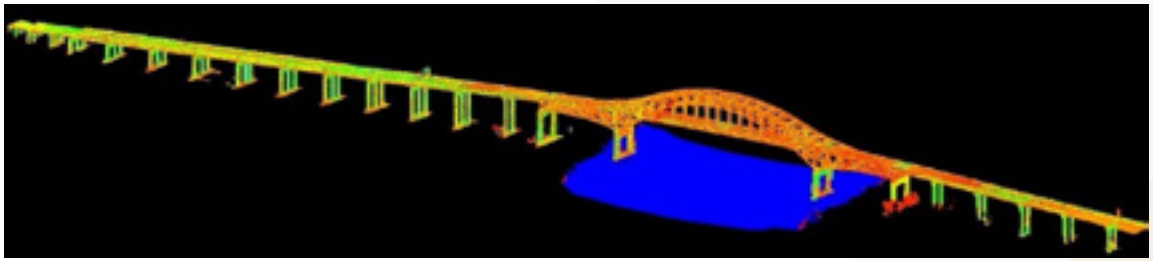
NTBA is performing Static GPS Control, topographic and property surveying services, and subsurface utility engineering for 34 bridge and culvert replacements throughout Central Louisiana. Topographic surveying utilizing HDS 3D Terrestrial Laser Scanning methods includes surveying of all sub-surface drainage structures, 200 feet upstream and downstream with cross-sections every 50 feet along channels, deck gutter lines, centerline of joints, low chord elevations, bent locations, and right-of-way 800 feet either side of structure. Subsurface utility engineering services include QL C and D utility mapping. NTBA will produce electronic topographic drawings in MicroStation depicting all utility and topographic information. This data is provided to the engineering consultant for incorporation into their hydraulic model being utilized to evaluate the system. NTBA is providing property surveys on two of the 34 bridge sites currently with the potential for additional sites in the future based on design needs. Property surveying will include surveying of each parcel affected by either construction servitude or additional right-of-way requirements along with production of preliminary and final right-of-way maps and parcel descriptions. All services are being completed in accordance with the Location and Survey Manual and all currently accepted location and survey automated procedures.

Key Staff: Paul Rossini

17. Firm Experience					
Firm name	**NTB Associates, Inc.**		**Past Performance Evaluation Discipline(s)***	Survey	
Project name	**LA 47 IWGO BRIDGE REHABILITATION, HISTORIC BRIDGE IMPROVEMENT (HBI)**		**Firm responsibility (prime or sub?)**	Prime	
Project number	4400017713		**Owner's name**	LADOTD	
Project location	Orleans Parish, Louisiana		**Owner's Project Manager**	Barrett Smith, PLS	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 / (225) 379-1133 / barrett.smith@la.gov				
Services commenced by this firm (mm/yy)	12/20		**Total consultant contract cost ($1,000's)**	$588	
Services completed by this firm (mm/yy)	03/22		**Total consultant services provided by this firm ($1,000's)**	$588	

This 6,622-foot-long Historic Bridge Improvement (HBI) project connects New Orleans East and Chalmette across the Intercoastal Waterway Gulf Outlet in Orleans Parish. The "Preservation Priority" bridge consists of concrete slab spans, pre-stressed girder spans, welded steel plate girder spans, and tied-arch girder truss spans. NTBA's services on the project entailed installation of six deep rod monuments, topographic surveys, establishing a Static GPS Control Network, HDS 3D Terrestrial Laser Scanning, hydrographic surveying, and QL C, and D Subsurface Utility Engineering Services. From the data collected, NTBA developed surface models to provide drawings of specified piers, joint, and truss locations at 4 separate times as deliverables. NTBA also provided traffic control coordination of a complete closure of the bridge from Friday at 8pm until Monday at 5am on 4 separate occasions to complete the project on time, within budget and with minimal disruption to the public and local businesses. All services were completed in accordance with the location and survey manual and all currently accepted Location and Survey Automated procedures.

Key Staff: Paul Rossini; Grant Gilleon



17. Firm Experience					
Firm name	Vectura Consulting Services, LLC		Past Performance Evaluation Discipline(s)*	TM	
Project name	I-10 ITS SCOTT TO LAKE CHARLES			Firm responsibility (prime or sub?)	Subconsultant
Project number	H.013256.5		Owner's name	LADOTD	
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)	04/19		Total consultant contract cost ($1,000's)		Unknown
Services completed by this firm (mm/yy)	03/21		Total consultant services provided by this firm ($1,000's)		$20

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.
- Public information strategies.

Key Staff: Laurence Lambert

17. Firm Experience					
Firm name	**Wiss, Janney, Elstner Associates, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	**DANZIGER LIFT BRIDGE REPAIR**		Firm responsibility (prime or sub?)	Prime	
Project number	Contract 4400009424, H.000303	Owner's name	LADOTD		
Project location	New Orleans. LA	Owner's Project Manager	Mark Bucci		
Owner's address, phone, email	1201 Capitol Access Rd., 6th floor, Baton Rouge, LA 70802 / (225) 379-1321 / ZhengZheng.Fu@LA.GOV				
Services commenced by this firm (mm/yy)	07/19	Total consultant contract cost ($1,000's)	$1,386		
Services completed by this firm (mm/yy)	Ongoing	Total consultant services provided by this firm ($1,000's)	$1,347 (to date)		

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

- Improving the lift span riding surface on the steel orthotropic deck with the installation of polyester polymer concrete repairs.
- Identification of pinion shaft bearing damage and the subsequent restoration of the pinion shafts and bearings.
- Addressing the contact of the lift span during warm temperatures with the approach spans by monitoring the joint movements and identifying that daily thermal movements of the approach spans were causing the issue, and that by cleaning the expansion joints, the issue was alleviated.
- Design of a new lift span skew control system after existing components were removed from the bridge and could not be relocated or replaced in kind.
- Design of electrical controls for the clutches associated with the span drive differentials.
- Strain gage testing to measure span balance and implementation of counterweight changes to improve seating of the span.
- Strain gage testing also showed that the span drive differentials on both towers were not functioning properly requiring coordination with the manufacturer to properly adjust the clutches in the differentials.
- Inspection of trunnion bearings and the installation of an automated acoustic monitoring system to assess bearing performance until scheduled replacements are required.

Key Staff: Jonathan McGormley; Steven Lauer; Mohamhed ElBatanouny; John Williams; Gareth Rees

17. Firm Experience					
Firm name	**Wiss, Janney, Elstner Associates, Inc.**		Past Performance Evaluation Discipline(s)*	Bridge	
Project name	**SUNSHINE BRIDGE OVER THE MISSISSIPPI RIVER, IMPACT REPAIR**		Firm responsibility (prime or sub?)	Prime	
Project number	4400009424; H.012343.6-1		Owner's name	LADOTD	
Project location	St. James Parish, Louisiana		Owner's Project Manager	Chris Guidry, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802 / 225.379.1328 / Chris.Guidry@LA.GOV				
Services commenced by this firm (mm/yy)	10/18		Total consultant contract cost ($1,000's)	$516	
Services completed by this firm (mm/yy)	01/19		Total consultant services provided by this firm ($1,000's)	$499	

The Sunshine Bridge is a cantilevered through truss with a main span of 825 feet that crosses the Mississippi River. Constructed in 1964, the bridge provides 170 feet of vertical clearance over the river channel. In the early morning hours of October 12, 2018, a crane barge tow made contact with the bottom chord of the truss. The resulting impact severely distorted the chord including the fracture of a castellated bottom plate. The damaged chord is in a region of compression four truss panels from a support. The bridge was closed to traffic by the LADOTD.

WJE was responsible for the development and implementation of a monitoring plan to provide information about the redistribution of loads during the installation of repairs to the damaged truss bottom chord. WJE engineers performed a review of the original design and construction documents with an evaluation of distortion measurements and damage survey findings to inform the design of a jacking system. WJE engineers developed a novel approach to jack apart the affected truss chord panel points to restore the original truss geometry to within 3/16-inch and to permit installation of a replacement bottom truss chord section. Multiple hydraulic jacks achieved a jacking load of 2.2 million pounds. Heat straightening was also used to restore portions of the chord. WJE instrumented selected truss members to monitor changes in forces during repairs. The jacking system members were also monitored. Working with the project surveyor, WJE engineers used their laser scanning data to assist in restoring the structure's geometry. Other project responsibilities assumed by WJE included development of jacking frame shop drawings, review of the replacement chord design, technical assistance during jack system installation, oversight of chord jacking operations, and instrumentation and monitoring of the truss.

Replacement of the damaged truss chord was completed by December 1, 2018, enabling the structure to be reopened to limited traffic while the repair project was completed.

Key Staff: Jonathan McGormley; Steven Lauer; Mohamhed ElBatanouny

Section 18:
Approach and Methodology

18. Approach and Methodology

INTRODUCTION AND PROJECT UNDERSTANDING

The HNTB team has the expertise and availability to continue assisting the LADOTD with bridge preservation in the state of Louisiana. For nearly 60 years, HNTB has partnered with LADOTD on many of your most complex structural projects, such as LA 1, Phase 2 in Golden Meadow, Louisiana. We know firsthand the bridge preservation program's critical role in the safe movement of people and goods throughout the state and appreciate the condition of the state's aging bridges. Since 2011, HNTB has successfully undertaken 63 bridge-related task orders through various retainer contracts where we have consistently met LADOTD's expectations in delivering quality bridge projects. Over the past eleven years, HNTB has built trusted relationships with more than 15 bridge project managers which will allow us to communicate seamlessly and effectively to deliver quality work, on time and to LADOTD's satisfaction.

TRUSTED, RESPONSIVE PARTNER

The HNTB team brings local and national subject matter experts – people you already know and trust– capable of executing any task order assignment immediately upon notice to proceed. As evidenced by the volume of task orders completed to date, HNTB understands your contracting processes which will allow us to eliminate any unnecessary delays in kicking off assignments. Our Baton Rouge bridge department consists of 14 dedicated bridge staff who are intimately familiar with LADOTD bridge design policies and procedures; in fact, some HNTB staff members assisted in their creation.

> **"They were responsive on all communications and submitted deliverables in a timely manner."**
>
> *JENNY FU, BRIDGE DESIGN ADMINISTRATOR | LADOTD*

ORGANIZED FOR SUCCESS

Located in HNTB's Baton Rouge office, **Dusty Bastion, PE**, will serve as your project manager for this contract. Dusty has more than 15 years of bridge experience, boasting a vast breadth of expertise in LADOTD specific bridge design, inspection and maintenance projects such as the US 90 Atchafalaya River Bridge Rehabilitation in Morgan City, Louisiana. **Josh Porter, PE**, and **Ben Goodner, PE**, will support Dusty as task order managers. Each bring more than 10 years of bridge experience and the expertise necessary to execute any assignment. Based on past experience evaluating resource needs on similar bridge IDIQ contracts, we have structured our organizational chart to be able to provide the resources necessary to execute multiple, concurrent task order assignments if needed. We will leverage our personnel's knowledge and past experiences, whether it be for a conventional timeframe task order or an accelerated delivery schedule, to ensure any assignment is completed on-time with exceptional quality.

DUSTY BASTION'S KEY PROJECTS IN LEADERSHIP ROLES IN LOUISIANA

2015 LADOTD Bridge Preservation Retainer - led contracting and project management efforts for 32 individual task orders

2020 LADOTD IDIQ Contract for Bridge Preservation - leading contracting and project management efforts for 14 individual task orders to date

LA 1, Phase 2 - project manager for this 8-mile-long bridge; winning bid was $464 million

QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)

The cornerstone of every successful project is quality. HNTB's QC/QA process is more than words alone. It is part of our culture and is comprised of three fundamental components: people, processes and tools. HNTB has created a project-specific Quality Management Plan (QMP) which will be utilized on all task order assignments under this contract. The QMP, which will be implemented by all staff including subconsultants, includes detailed procedures and processes for performing all quality checks, including toolboxes for electronic checking. By having all team members use the same quality processes, we can ensure consistency and high-quality deliverables.

SCOPE OF WORK

Our team was strategically assembled to ensure all requirements listed in the scope of services can be met. We bring continuity of staff, including subconsultants, from our recent 2020 LADOTD Bridge IDIQ Retainer, with the addition of new experts to fulfill additional needs outlined in the scope. By using the same teaming partners, we already know each member's strengths and capabilities allowing us to promote maximum levels of production starting upon NTP.

BRIDGE DESIGN SERVICES

Knowing that bridge design services account for the overwhelming majority of this contract, we have chosen local HNTB resources with Louisiana bridge experience who will be supplemented by national bridge experts and local subconsultants to provide LADOTD with an experienced, multi-faceted team with the availability to meet any need that arises.General Bridge Engineering Services.

John Bernard, PE, and Dusty Bastion will lead the bridge engineering efforts for fixed bridges. They have the knowledge and past experience to execute a task order of any level of complexity, whether it be a bridge replacement using accelerated construction (see US 80 over I-20 project write up), a thru-truss bridge rehabilitation (see US 90 Atchafalaya River Bridge Rehab project write up), or an urgent girder repair (see LA 3250: I-49/UPRR Overpass Repair project write up). They will be supported by a local team who has experience in bridge related design, inspection, plan development and load rating tasks.

Inspections and evaluation of existing bridges will be led by **Patrick Roth, PE**. Patrick has more than 14 years of complex bridge inspection experience and has severed as project manager for LADOTD's Complex Bridge Inspection Retainers since 2015. On the LA 70 Bridge over Pierre Part Pass (swing span), Patrick led a team of structural, electrical and mechanical engineers to evaluate the condition of this bridge. A report was developed and submitted to LADOTD which identified all defects observed and repair recommendations for each defect.

Load ratings of any type will be led by **Josh Porter, PE**. A former engineer in LADOTD's Load Rating Gang, Josh is well versed in load rating policies and procedures. He will be supported by local staff and subconsultant Forte and Tablada (F&T) who has held multiple load rating retainer contracts. On the LA 70 Bridge over Pierre Part Pass (swing span), Josh led all load rating efforts. The results of the load rating showed the stringers in the structure's floor system were inadequate and strengthening of these members was incorporated into our repair recommendations report.

If required, design peer reviews will be led by **Steve Hague, PE, SE**. With nearly 40 years of bridge experience, he has performed peer reviews focusing on elements of constructability and design. One such review was the Lewisville Lake Toll Bridge in Texas where he supported North Texas Tollway Authority (NTTA) with the review of a 360-foot, tied-arch span. Steve provided input to the design criteria as well as review and comment on various design aspects of the bridge including the tie girder and hangers.

Construction engineering support services will be led by **Dusty Bastion, PE**. He and his staff are currently managing a large construction support contract for LA 1, Phase 2, and as a group have managed over 12 other LADOTD construction support task orders. Dusty and the HNTB team are well versed in LADOTD's processs and procedures for construction support services for shop drawing reviews, construction drawings reviews, RFI responses or value engineering/contractor proposal reviews. Additionally, HNTB staff routinely provide on-site participation during accelerated bridge construction projects. By supporting LADOTD inspectors and field engineers with first-hand design knowledge and project intent, time-critical decisions can be made immediately with confidence.

SAMPLING, INSTRUMENTATION AND NON-DESTRUCTIVE TESTING

The majority of sampling, instrumentation and non-destructive testing (NDT) will be performed by subconsultant team members. With more than 20 years of experience, **Kevin Guth, CIH, PMP**, with **KGC Environmental Services, Inc.** (KGC) will lead coating assessments and testing. All instrumentation and non-destructive testing services will be led by **Jon McGormley, PE, SE** of **Wiss, Janney, Elstner Associates, Inc.** (WJE). WJE has performed similar work for numerous agencies across the country and is a national leader in this sector.

GEOTECHNICAL SERVICES

Geotechnical tasks will be coordinated by **Brian Powell, PE**. Brian has more than 17 years of experience and has worked on a number of Louisiana transportation projects, including drilled shaft design for the US 80 bridge over I-20 in Calhoun, Louisiana. With Brian's oversight, subconsultant **Ardaman and Associates, Inc.** (A&A), will handle all geotechnical exploration and testing. When construction related engineering services are required, HNTB and A&A have an established record of partnering to execute these assignments. Under our current bridge retainer, we have successfully partnered on two assignments requiring pile driving analysis (PDA) monitoring tasks.

ROADWAY DESIGN AND TRAFFIC SERVICES

Kate Prejean, PE, will lead roadway design services. With more than 20 years of experience, Kate has been the project manager or engineer of record on numerous roadway design projects, including developing temporary traffic control layout for the closure and detour of I-49 during the LA 3250 overpass girder replacement, and frequently serves as a roadway quality control manager on projects throughout the office. F&T's **Allison Schilling, PE**, a retired LADOTD engineer, has a depth of knowledge in rural and urban roadway design, drainage design and program and project management and will support Kate on all roadway design tasks.

Traffic services will be led by **Brin Ferlito, PE, PTOE** , of **Vectura Consulting Services, LLC** (VCS). Brin has vast experience in the traffic engineering discipline including traffic impact studies and corridor improvement studies. When necessary, transportation management plan (TMP) development responsibilities will be shared among the entire team. HNTB has developed multiple TMPs including Level IV TMP's for bridge construction projects along I-20 in Bossier and along I-20 in Monroe, Louisiana.

SURVEYING AND TITLE WORK SERVICES

Bradley Holleman, PLS, and **Ross Wilson, PLS**, (F&T) will lead surveying tasks to secure existing topography, utility locations and tie in geometrics. Together they have more than 25 years of experience in land surveying, preforming topographic surveys, boundary surveys, right-of-way (ROW) surveys/maps, construction stakeout and data collection. Title research and reporting will be performed by Mona Nosari of Civix. If required, the HNTB team can provide full-service ROW acquisition on any task order assignment.

Grant Gilleon, PLS, of **NTB Associates, Inc.** (NTBA) will lead all underwater acoustic imaging activities. With more than 400 hydrographic survey assignments completed since 2009, NTBA has the resources and experience to handle any underwater survey assignment.

ENVIRONMENTAL AND PERMITTING SERVICES

Lynn Maloney-Mujica, AICP, will serve as the environmental task lead. She has more than 20 years of environmental experience in the Gulf Coast area, and is familiar with the NEPA process and permit obtainment. She will be supported by ELOS Environmental who will provide field work, sketches and other data to support permit development.

OUR PLAN OF ACTION

Due to the nature of an IDIQ contract, we anticipate the task orders assigned will vary in scope and schedule. The HNTB team offers an extremely diverse range of capabilities and the ability to execute multiple task order assignments concurrently. We have strategically assembled our team to offer LADOTD a deep bench of individuals within each significant minimum personnel requirement (MPR) ready to execute task orders upon NTP. We are ready to continue serving LADOTD bringing:

- Our ability to complete projects on urgent and accelerated timeframes.
- Our knowledge of accelerated bridge construction (ABC) techniques.
- Our ability to serve as a full-service lifecycle consultant.

Urgent/Accelerated Timeframe Projects

Members of the HNTB team have been involved with LADOTD Bridge Retainer contracts since January 2011. Over the life of these contracts, we have seen the shift from conventional timeframe projects to more urgent, accelerated timeframe task orders. Under our recent 2015 and 2020 Bridge IDIQ Retainers, we have seen this trend in real-time, and this team is uniquely staffed and qualified to execute these types of assignments. For example, on the Hernando de Soto Bridge (I-40) over the Mississippi River in Memphis, Tennessee, an inspection was needed quickly due to an emergency closure. The HNTB team mobilized 19 people within 11 days and completed the inspection in three weeks.

URGENT/ACCELERATED TIMEFRAME PROJECTS (2017 TO PRESENT)

- H.013052: LA 442 over Tangipahoa River – emergency bridge replacement due to excessive scour; topo survey and all designs/plans completed in five months.
- H.013076: US 90: I-10 Overpass Interim Repairs – urgent bridge repair project; load rating, repair recommendations, and repairs plans completed within eight months.
- H.001166: LA 1 over Caddo Lake – bridge replacement with phased construction, condensed deliverable schedule (seven months), and coordination with LADOTD Roadway regarding construction phasing.
- H.012889: I-20 Rehabilitation (Pines Road to I-220) – condensed deliverable schedule (11 months), including coordination with LADOTD Roadway and Traffic, as well as an electrical consultant due to construction phasing, advance signage, and highway lighting, respectively.
- H.014454: LA 15 Boeuf River Bridge - bridge replacement featuring a condensed deliverable schedule (four months) and unique geotechnical design considerations.
- H.014672: I-12: LA 1032 Overpass Girder Repair – emergency bridge repair due to vehicular impact, including girder replacement and CFRP repairs in a condensed deliverable schedule (five months).
- H.012083: I-10: Calcasieu River Bridge Int. Repairs – bridge retrofit to facilitate relocation of multiple RR spurs, including removal and temporary replacement of multiple substructures and miscellaneous steel repairs in a condensed deliverable schedule (est. eight months).

Upon notification of assignment, the HNTB team will quickly schedule a scoping meeting with the LADOTD Bridge Section to kick off and discuss the project to ensure everyone is on the same page. The outcome of this meeting will be agreement on a generalized scope and an understanding of project urgency and schedule. If the need is immediate action, the team will be prepared to start work immediately upon receipt of an advanced NTP. Based on our knowledge of LADOTD processes and procedures, we have routinely been able to jump straight through 60% final plans to 95% final plans without having to stop for review periods . Figure 1 below shows the project schedule of an emergency repair. This schedule assumes an advanced NTP and immediate action, which is consistent with other assignments we have recently completed.

Accelerated Bridge Construction

Although not specifically identified in the scope of services, the Federal Highway Administration (FHWA) has pushed states to dedicate 20% of bridge funding toward ABC. As a firm, HNTB is committed to this methodology and we pride ourselves as a national leader in ABC design. The Baton Rouge office has worked on a number of ABC-focused projects and has worked with our national resources to develop additional design checks to mitigate issues which commonly arise during construction. Since 2015, the Baton Rouge office has completed the following projects for the LADOTD which incorporate ABC concepts.

Through a collaborative approach with bridge design and district resources, we will identify early when a project may be a candidate for ABC. After concurrence with stakeholders, we will leverage TMP information along with local district knowledge to determine appropriate closure windows and days of least impact. This information will be used to tailor an ABC concept which is constructable within the allotted timeframe.

Figure 1: Urgent/Emergency Repair Schedule

TASK NAME	DURATION	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16	W17	W18	W19	W20	W21	W22	W23	W24	W25	W26
Notice of Assignment	1 day																										
Scoping Meeting	1 day																										
Advance NTP	0 days																										
Emergency Field Inspection	5 days																										
Findings Report Development & Submittal of Repair Reccommendaitons	5 days																										
Repair Reccomendations Meeting	1 day																										
Finalize & Submit Scope and Manhours	10 days																										
60% Final Plans Development	8 weeks																										
60% Final Plans QC/QA & Submittal	5 days																										
95% Final Plan Development	20 days																										
95% Final Plans QC/QA & Submittal	5 days																										
95% Final Plans Meeting	1 day																										
Update & Submit 98% Final Plans	5 days																										
Update & Submit 100% Final Plans	5 days																										
Pre-Bid Support	20 days																										
Project Letting	1 day																										

ABC PROJECTS (2015 TO PRESENT)

- H.002893: U.S. 90 over LA 14 – Replacement of parallel plate girder bridges along US 90 mainline using SPMTs. Work sequence allows for three weekend closures of underlying LA 14 to complete SPMT movements. Plans have been completed, but construction funding is currently unavailable.
- H.003263: I-20: Overpasses Rehabilitation (Bossier City) – Abutment backwall and approach slab replacement along I-20 mainline using precast panels and high-early strength concrete. Work sequence allowed for all work to occur over three weekend-long rotating lane closures along I-20. Project was completed in November 2018.
- H.011989: US 90: LDRR and LA 329 Overpass Rehabilitation - Abutment backwall and approach slab replacement along US 90 mainline using precast panels and high-early strength concrete. Work sequence allowed for all work to occur over two weekend-long rotating lane closures along US 90. Project was completed in July 2019.
- H.013840: I-10 EB Vets Blvd Bridge (Fire Repair) – Partial slab span replacement along I-10 mainline using precast panels and high early strength concrete. Work sequence allowed for span replacement work to occur in one weekend long lane closure period. Project was completed in November 2019.
- H.010012: US 80 over I-20 – Replacement of plate girder bridge crossing over I-20 using SPMTs. Work sequence allowed for two weekend diversions of underlying I-20 to complete SPMT movements. Project was completed in August 2021.
- H.014324: LA 3250: I-49/UPRR Overpass Repair – Partial PPC girder span replacement along I-49 mainline using precast girder/deck segment and SPMTs. Work sequence allowed for span replacement work to occur over two weekend-long closures of I-49. Project was completed in March 2022.

Since ABC work is not an every-day occurrence, HNTB will provide on-site engineering staff during construction to assist district inspectors with oversight of the work. By providing experienced personnel who participated in the ABC plan development, we can ensure any questions that arise are addressed immediately mitigating potential construction delay. On every ABC project after construction is complete, HNTB gathers all design and construction personnel to discuss project successes as well as troublesome details. Our ultimate focus on these unique projects is to continually learn from each project and constantly refine plans and details to ensure the next project is a greater success than the one before.

LADOTD's Lifecycle Consultant

HNTB currently holds active bridge inspection and bridge IDIQ retainers with LADOTD. This dual role provides HNTB with a uniquely informed perspective that maximizes efficiencies and creates a seamless transition in project flow. HNTB has had the opportunity to contribute to this lifecycle role on multiple bridges including the U.S. 90 Bridge over the Atchafalaya River. For this project, HNTB completed an in-depth as part of our bridge inspection retainer. After in-depth and element level inspection reports were submitted, HNTB was contracted under our bridge preservation retainer to develop repair recommendations and plans for an upcoming painting and structural rehabilitation project. Because of this in-depth inspection work, our personnel were able to immediately start developing the plans, and we were able to accurately determine repair locations. Additionally, we were able to standardize repairs into specific groups and then develop general details for each group. This project was successfully let in November 2018, and HNTB is currently providing construction related engineering services. The project is substantially complete, and construction is anticipated to close out in mid-2022. This project demonstrates the potential efficiency and continuity which can be obtained by utilizing one experienced, full-service consultant.

HNTB is currently working on a similar project on the Gramercy Bridge over the Mississippi River. We will leverage our past experience on the Atchafalaya River project to take this steel thru-truss from condition assessment to repair recommendations, through plan development and construction support. See Figure 2 for a tentative schedule for the design phase of this project. Currently repair recommendations have been confirmed and the rehabilitation task order is in process. Using this lifecycle workflow, the rehabilitation opportunities are limitless. Any bridge, whether fixed or movable, deemed a rehabilitation candidate could be executed in a similar fashion.

CLOSING

It is no secret the HNTB team's workload consistently stays relatively high, particularly in the bridge discipline. We don't hide the fact that we are LADOTD's bridge consultant and we are committed in specializing in LADOTD work of all types.The HNTB team has proven our ability to consistently complete our assignments for LADOTD on-time, on-budget, with the highest quality deliverables, to your satisfaction. We have the depth of bridge resources needed to complete any assignment under this contract with the desire and availability to continue serving LADOTD. The local Baton Rouge office includes 14 bridge-focused staff than can be supplemented by 500 bridge personnel nationwide, if needed. We stand ready and excited to continue to deliver for you under this contract.

Figure 2: Gramercy Bridge Rehabilitation Sample Schedule

TASK NAME	DURATION	J	F	M	A	M	J	J	A	S	O	N	D
TASK 1: INSPECTION AND REPAIR RECCOMMENDATIONS													
Inspection NTP	1 day		2/1										
Field Inspection	4 days												
Condition Assessment and Repair Reccommendations Reporting	18 days												
Repair Recommendations Meeting	0 days				3/22								
TASK 2: REHABILITATION TASK ORDER													
Contracting/Rehabilitation NTP	1 day					5/17							
60% Final Plans Development	40 days												
60% Final Plans QC/QA & Submittal	1 day							7/12					
95% Final Plan Development	20 days												
95% Final Plans QC/QA & Submittal	1 day								8/9				
95% Final Plans Meeting	1 day								8/23				
Update & Submit 98% Final Plans	15 days												
Update & Submit 100% Final Plans	20 days												
Pre-Bid Support	44 days												
Project Letting	1 day											12/12	

Actual Dates Projected Dates

Section 19:
Workload

19. Workload				
Firm	**Past Performance Evaluation Discipline(s)**	**State project number**	**Project name**	**Remaining unpaid balance**
HNTB Corporation	Environmental	H.003931	I-10 Calcasieu NEPA Restart (Lake Charles, LA)	$337,743
	Bridge	State Contract No. 44-13321	**IDIQ Contract for In-Depth Bridge Inspection**	
		H.009730.5	Calcasieu, EBR, and West Feliciana Parishes In Depth Inspections for I-10 Calcasieu, I-10 Baton Rouge and John James Audubon Bridge	$1,046,400
	Other	State Contract No. 4400010060	**Retainer Contract for Trust Indenture Services and Engineering Services for LA 1 Toll Facilities**	
			Task Order No. 1: LA 1 Program Support	$329,302
			Task Order No. 10: LA Post Ida Repairs	$29,886
	Other	State Contract No. 44-17329	**IDIQ Contract for Innovative Procurement Support Services**	
			Task Order No. 1: 1-12 Managed Lane Conversions	$174,742
			Task Order No. 2: EOR	$147,023
			Task Order No. 3: Jimmie Davis DB Procurement	$332,259
			Task Order No. 4: I-10 Calcasieu Toll Support	$90,644
	Bridge	State Contract No. 44-17264	**Retainer Contract for Bridge Preservation**	
		H.014588.5	I-20: Orange Street Overpass Repair	$46,747
		H.010319.5	I-110: North Street to Plank Road	$9,374
		H.001166.6	Caddo Lake CRES	$137,457
	Bridge	H.014454.6	Boeuf River Bridge CRES	$72,047
		H.011965.5	LA 47 Cleaning and Inspection	$220,811
		H.014672.6	I-12: LA 1032 Overpass Repair	$37,801
		H.012083.5	I-10: Calcasieu River Bridge Int. Repairs	$810,906

19. Workload				
Firm	Past Performance Evaluation Discipline(s)	State project number	Project name	Remaining unpaid balance
Ardaman & Associates, Inc.	Geotech	H.009266	I-10 (LA 73 to LA 30) Route I-10 Ascension Parish	$21,050
	Geotech	H.011309.5	MacArthur Interchange Completion Phase II Route US 90-Z Jefferson Parish	$73,327
	Geotech	H.012565, H.012891, H.014251, 252, 253, 254, 256, 257	Rural Bridge Replacement – Phase II, Districts 02, 03, 07, 61, 62	$90,277
	Geotech	H.003370	I-220/I-20 Interchange Improvement and Barksdale Air Force Access Road	$4,179
	Geotech	H.004273	I-49 Connector, Lafayette	$619,139
	Geotech	H.010603.6	Mississippi River Bridge at Vicksburg, Mississippi	$90,293
	Geotech	H.004791	LA 23: Belle Chasse Bridge and Tunnel (HBI)	$302,731
	Geotech	H.013897	I-10/I-12 College Drive Flyover	$352,657
	Geotech	H.004113	I-12 to Bush LA 3241 (LA 435 – LA40/LA41)	$114,635
	Geotech	H.014217, 218, 225, 228, 233, 236	Rural Bridges Replacement Phase II – Districts 04 and 05	$307,297
	Geotech	H.04435.5	I-12 to Bush LA 3241 (LA 36-LA 435) Construction	$176,629
	Geotech	H.004100.5-2	I-10: LA 415 to Essen Lane on I-10 & I-12	$299,407
	Geotech	H.002244.5	Boudreaux Canal Bridge (LA 56)	$170,295
	Geotech	H.004100	I-10: CMAR 30% Segment 1 Design	$298,180
	Geotech	H.014554.6	Boeuf River Bridge (PDA)	$5,699
	Geotech	H.001166.6	Caddo Lake Bridge (PDA)	$41,096
	Geotech	H.012030	KCS Railroad Overpass HBI (US 371)	$32,774

19. Workload				
Firm	Past Performance Evaluation Discipline(s)	State project number	Project name	Remaining unpaid balance
ELOS Environmental, LLC	Environmental	H.013958	Rural Bridge Replacement Initiative: Carpenters Br Road Over Whiskey Chitto	$602
	Environmental	H.013959	Rural Bridge Replacement Initiative: Reeds Bridge Road Over Calcasieu River	$1,776
	Environmental	H.013963	Rural Bridge Replacement Initiative: LA 384 Canal Bridge	$1,606
	Environmental	H.013970	Rural Bridge Replacement Initiative: LA 717 Klondike Canal and Bayou Bridges	$96
	Environmental	H.013976	Rural Bridge Replacement Initiative: LA 376 Bayou Bridges	$983
	Environmental	H.013976.5	Rural Bridge Replacement Initiative: LA 376 over Bayous	$294
	Environmental	H.013984	Rural Bridge Replacement Initiative: LA 16 Bridges (Isabel to Sun)	$38
	Environmental	H.013997	Rural Bridge Replacement Initiative: Local Rd Over Borrow Pit (Blind River)	$3,623
	Environmental	H.014246	Phase II Rural Bridge Replacement Initiative: LA-1199 Creeks and Spring Creek	$19
	Environmental	H.014247	Phase II Rural Bridge Replacement Initiative: LA-399 Creeks, Little 6 Mile Creek, Little 6 Mile Creek, Relf. and Flat Branch	$19
	Environmental	H.014248	Phase II Rural Bridge Replacement Initiative: LA-124 Creeks, Broke Leg Bayou, Boggy Bayou	$19
	Environmental	H.014249	Phase II Rural Bridge Replacement Initiative: LA-126 Creek	$3,495
	Environmental	H.014250	Phase II Rural Bridge Replacement Initiative: LA-577 Creek and Bull Bayou	$3,665
	Environmental	H.014268	Phase II Rural Bridge Replacement Initiative: LA-4 Creeks, Bear, Sugar	$4,855

19. Workload				
Firm	Past Performance Evaluation Discipline(s)	State project number	Project name	Remaining unpaid balance
Forte and Tablada, Inc.	Bridge	H.012485.1	IDIQ Contract 4400010099, Task Order No. 4 Off System Bridge Load Rating, Statewide	$169,378
	Bridge	H.012485.1	IDIQ Contract 4400010099, Task Order No. 5 Bridge and Culvert Load Testing	$181,695
	Survey	H.014628.5	IDIQ Contract 4400010587, Task Order No. 17 Turn Lanes at Rice Mill	$71,418
	Survey	H.014219 H.014222 H.014228 H.014231 H.014236 H.013954 H.013979 H.013985 H.013992 H.013994 H.013995 H.013990	Contract 4400017598 Rural Bridge Replacement Initiative	$545,837
	Survey	H.003931.5	IDIQ Contract 443015237 I-10 Calcasieu River Bridge Replacement	$1,975,621
	Survey	H.004273.5	DOTD I-49 Connector (Lafayette Regional Airport to I-10/US 167 Interchange)	$197,924
	Survey	H.011684	LA 327 Spur: Staring Lane Extension Route LA 327-S	$50,279
	Survey	H012072	LA 60 Drain Bridge	$1,428
KGC Environmental Services, Inc.	CE&I/ OV	H.009461	U.S. 90 Atchafalaya River Bridge Rehabilitation	$100,000
Moffatt & Nicol, Inc.	Bridge	H.009730.5	In-Depth Inspection of Complex Bridges, Task Order	$252,121
	Bridge	H.009730.5	In-Depth Inspection of Complex Bridges, Task Order 5	$654,279
	Bridge	H.009730.5	IDIQ Contract for Underwater Bridge Inspection, Statewide	$726,212
	Bridge	H.011331.5	LADOTD Inventory and Inspection of Sign Trusses	$420,203
	Bridge	H.009730.5	LADOTD In-Depth Bridge Inspection, Task Order 3	$473,944
	Data Collection	H.971294.1	LADOTD RIMS	$79,996

19. Workload				
Firm	**Past Performance Evaluation Discipline(s)**	**State project number**	**Project name**	**Remaining unpaid balance**
NTB Associates, Inc.	Survey	4400019338	Contract for Rural Bridge Replacement Initiative Phase II, Districts 05, 08, 58 (Sub to Sigma)	$60,321
	Survey	4400019337	Contract for Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (Sub to BKI)	$603,690
	Survey	4400017713	IDIQ Contract for Professional Surveying Services - Task Order No. 5 - Monkhouse to I-49, Caddo Parish	$1,355,838
	Survey	4400017713	IDIQ Contract for Professional Surveying Services - Task Order No. 6 - I-10 Additional Topographic Surveys	$24,827
	Survey	4400019175	IDIQ Contract for Hydrographic Surveying Services - Task Order No. 3 - Spring Bridges	$31,881
	Survey	4400019715	IDIQ Contract for Hydrographic Surveying Services - Task Order No. 4 - Summer Bridges	$66,205
	Survey	4400014660	IDIQ Contract for Subsurface Utility Engineering (SUE) Services - Task Order No. 2 - I:10 LA to Essen Additional SUE Services	$14,017
Vectura Consulting Services, LLC	Traffic	H.010616	I-20: LA 544 Overpass Replacement	$4,959
	Traffic	H.005168.2	New Orleans Rail Gateway Jefferson Highway EA	$52,436
	Traffic	H.005168.2	New Orleans Rail Gateway Avondale EA	$228,799
	CE&I	H.007160	EBR Computerized Traffic Signal, Ph VB	$61,450
	Traffic	H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	$21,999
	Traffic	H.012030.5	KCS RR Overpasses HBI	$28,026

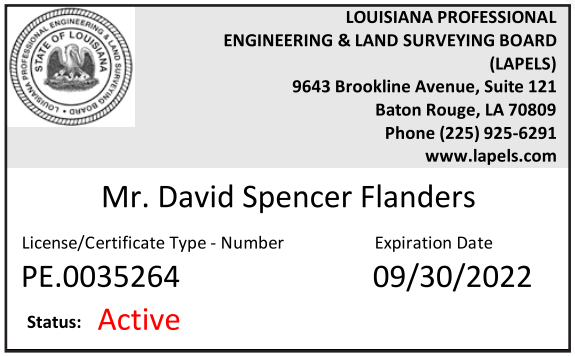
19. Workload				
Wiss, Janney, Elstner Associates, Inc.	Bridge	State Contract No. 4400009424 H.000303.6	Danziger Bridge Repair	$38,315
	Bridge	State Contract No. 4400009424 Task Order 5	Elastomeric Bearing Pad Testing	$44,646
	Bridge	H.014280	Bayou Ramos	$142,599
	Bridge	H.014673	I-49, U.S. 165: Debonded PPC Girder Rehab I-49/US165, Rapides Parish	$24,498
	Bridge	H.012617.6	I-310: I-10 to U.S. 90, Hale Boggs Memorial (Luling) Bridge, Deck Overlay Repair Consultation, Instrumentation Services	$221,747
	Bridge	Contract 4400001762, H.014899.6	I-10/310 Bonnet Carré Fire Damage Repair	$37,618
Civix	Survey	N/A	N/A	N/A

Section 20:
Certifications/Licenses

20. Certifications/Licenses

David Flanders, PE

MPR #1



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9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
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Mr. David Spencer Flanders

License/Certificate Type - Number	Expiration Date
PE.0035264	09/30/2022

Status: Active

20. Certifications/Licenses

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9643 Brookline Avenue, Suite 121
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Mr. Todd Dustin Bastion

License/Certificate Type - Number	Expiration Date
PE.0036719	03/31/2024

Status: Active

National Highway Institute

Certificate of Training

Dusty Bastion

has participated in

FHWA-NHI 130055 Safety Inspection of In-Service Bridges

hosted by

LA DOTD/LTRC

Date: January 4-15, 2016 *Hours of Instruction:* 67

Location: Baton Rouge, LA

Guy R Lang PE — Instructor

Allison H. Landry — Local Coordinator

Dennis R Bu... PE — Instructor

Valerie Briggs — Valerie Briggs, Director, National Highway Institute

Dusty Bastion, PE

MPR #2, 3

National Highway Institute

Certificate of Training

DUSTY BASTION

has participated in

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

hosted by

LA DOTD/LTRC

Date: June 20-23, 2017 *Hours of Instruction:* 25

Location: Baton Rouge, LA

Instructor

Allison H. Landry — Local Coordinator

Instructor

Valerie Briggs, Director, National Highway Institute

20. Certifications/Licenses

John Bernard, PE

MPR #3

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Mr. John Randolph Bernard

License/Certificate Type - Number	Expiration Date
PE.0031026	03/31/2024

Status: Active

20. Certifications/Licenses

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9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
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Mr. Joshua Manning Porter

License/Certificate Type - Number	Expiration Date
PE.0039513	09/30/2023

Status: Active

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Joshua Porter, P.E.

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher

hosted by

Texas Department of Transportation

Date: *April 11-13, 2017*
Location: *Austin, TX*

Hours of Instruction: *18*

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

Josh Porter, PE

MPR #4

Certificate of Attendance

Joshua Porter

has participated in

Movable Bridge Inspection Workshop

and has been awarded 15 Professional Development Hours

November 7-9, 2012 Houma, Louisiana

Allison H. Landry
Authorized By

Research, Technology Transfer, Education & Training

The American Traffic Safety Services Association

Hereby recognizes that

Joshua Porter
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

2/8/2019 to 2/8/2019
Date

Baton Rouge, LA

ATSSA
SAFER ROADS SAVE LIVES

Training & Products Dept. Director

20. Certifications/Licenses

Joffrey Easley, PE

MPR #4

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Baton Rouge, LA 70809
Phone (225) 925-6291
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Mr. Joffrey Elliott Easley

License/Certificate Type - Number	Expiration Date
PE.0031542	03/31/2023

Status: Active

Dan Appelbaum, PE

MPR #5

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Mr. Daniel Gerard Appelbaum

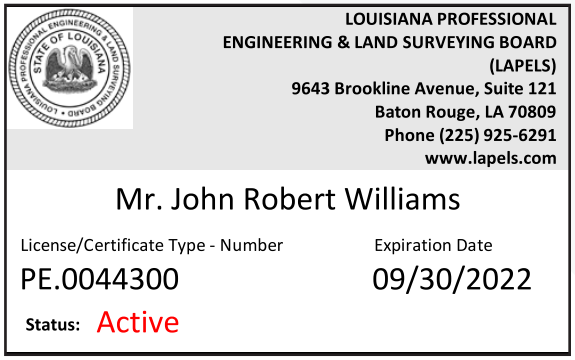
License/Certificate Type - Number	Expiration Date
PE.0038362	03/31/2024

Status: Active

20. Certifications/Licenses

John Williams, PE

MPR #5



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Mr. John Robert Williams

License/Certificate Type - Number: PE.0044300

Expiration Date: 09/30/2022

Status: Active

Paul Hunter, PE

MPR #6

LOUISIANA PROFESSIONAL
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(LAPELS)
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Phone (225) 925-6291
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Mr. Paul Daniel Hunter

License/Certificate Type - Number: PE.0045076

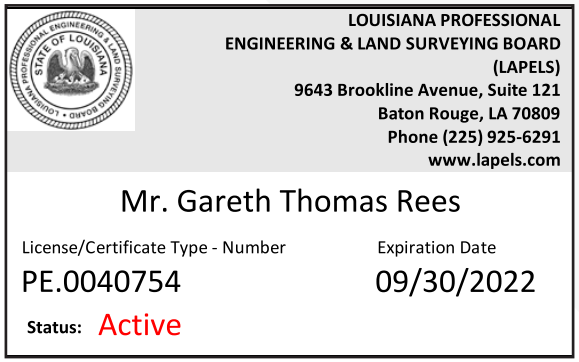
Expiration Date: 03/31/2023

Status: Active

20. Certifications/Licenses

Gareth Rees, PE

MPR #6



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Baton Rouge, LA 70809
Phone (225) 925-6291
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Mr. Gareth Thomas Rees

License/Certificate Type - Number: PE.0040754

Expiration Date: 09/30/2022

Status: Active

Christian Brown, PE

MPR #7

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

Mr. Christian James Brown

License/Certificate Type - Number: PE.0039217

Expiration Date: 03/31/2023

Status: Active

20. Certifications/Licenses

Kate Prejean, PE

MPR #8

LOUISIANA PROFESSIONAL
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Phone (225) 925-6291
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Mrs. Kate Brady Prejean

License/Certificate Type - Number	Expiration Date
PE.0035036	03/31/2024

Status: Active

Allison Schilling, PE

MPR #8

LOUISIANA PROFESSIONAL
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(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
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Ms. Allison Ancona Schilling

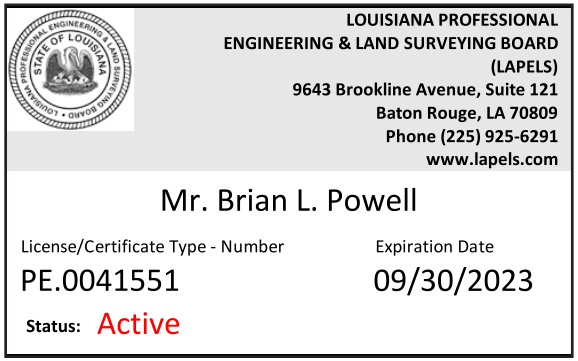
License/Certificate Type - Number	Expiration Date
PE.0030265	09/30/2022

Status: Active

20. Certifications/Licenses

Brian Powell, PE

MPR #9



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Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Brian L. Powell

License/Certificate Type - Number: PE.0041551

Expiration Date: 09/30/2023

Status: Active

20. Certifications/Licenses

Additional Certificate and Licenses - HNTB Corporation

National Highway Institute

Certificate of Training

Patrick Roth

has participated in

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

hosted by

PKB Engineering Corp.

Date: *July 8-11, 2014*
Location: *Lyndhurst, NJ*

Hours of Instruction: *21 Hours*

Instructor

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute

National Highway Institute

Certificate of Training

PATRICK ROTH

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

LA DOTD/LTRC

Date: *January 7-9, 2019*
Location: *Baton Rouge, LA*

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Michael Davies, Director
National Highway Institute

The American Traffic Safety Services Association

Hereby recognizes that

Patrick Roth
has attended
Traffic Control Technician - LA State Specific
Training Course

06/05/2018
Date

New Orleans, LA
Location

Training & Products Dept. Director

President, CEO

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

Mr. Patrick J. Roth

License/Certificate Type - Number
PE.0041553

Expiration Date
09/30/2023

Status: Active

The American Traffic Safety Services Association

Hereby recognizes that

Patrick Roth
has attended
Traffic Control Supervisor-LA State Specific
Training Course

06/06/2018
Date

New Orleans, LA
Location

Training & Products Dept. Director

President, CEO

20. Certifications/Licenses

Additional Certificate and Licenses - KGC Environmental Services, Inc.

Certificate of Completion

Kevin M. Guth

has successfully completed the course and exam

C3 Supervisor/Competent Person Training for Deleading of Industrial Structures

and is awarded 3.2 Continuing Education Units

32 Hour Course Including
9 Hours Hands-On Workshop

Bernard R. Appleman
Executive Director

William M. Medford
President

STEEL STRUCTURES PAINTING COUNCIL
SSPC

June 17-20, 1996
New Orleans, LA

Danile O. Chute
Chris Lovelace
Instructors

SSPC The Society For Protective Coatings

ACCREDITED IACET PROVIDER

IACET Provider # 1003373
Florida Board of Professional Engineers, Provider #0004326
New York Board of Professional Engineers

CERTIFICATE OF COMPLETION

Kevin M. Guth
ID # 1235612
Has fulfilled the requirements of
SSPC: The Society for Protective Coatings'

LEAD PAINT REMOVAL REFRESHER (C5)
Supervisor/Competent Person Training for Deleading of Industrial Structures

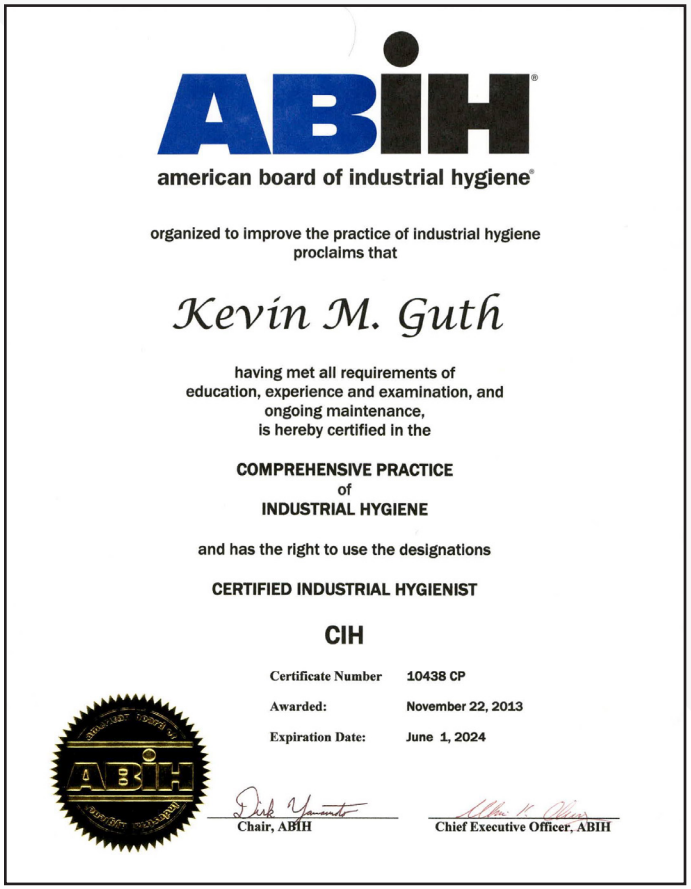
And is awarded
0.8 Continuing Education Units

Course Date(s):
7/11/2021-7/11/2021

Location: Kenner, Louisiana
United States

Instructor(s):
1283130 Sonya Peters, PCS

SSPC President



ABIH

american board of industrial hygiene

organized to improve the practice of industrial hygiene
proclaims that

Kevin M. Guth

having met all requirements of
education, experience and examination, and
ongoing maintenance,
is hereby certified in the

COMPREHENSIVE PRACTICE
of
INDUSTRIAL HYGIENE

and has the right to use the designations

CERTIFIED INDUSTRIAL HYGIENIST

CIH

Certificate Number 10438 CP
Awarded: November 22, 2013
Expiration Date: June 1, 2024

Chair, ABIH

Chief Executive Officer, ABIH

20. Certifications/Licenses

Additional Certificate and Licenses - KGC Environmental Services, Inc.

NACE INTERNATIONAL INSTITUTE

Certificate of Achievement

The NACE International Institute Recognizes

Kevin M Guth

As a Certified

NACE Coating Inspector Level 1

Executive Director
NACE International Institute

Expires
July 31, 2024

Cert No.23834

230179

SSPC The Society For Protective Coatings

AUTHORIZED IACET PROVIDER

IACET Provider #3375

CERTIFICATE OF COMPLETION

Kevin M. Guth

has successfully completed a course and exam
Quality Control Supervisor (QCS)

and is awarded
1.5 Continuing Education Units

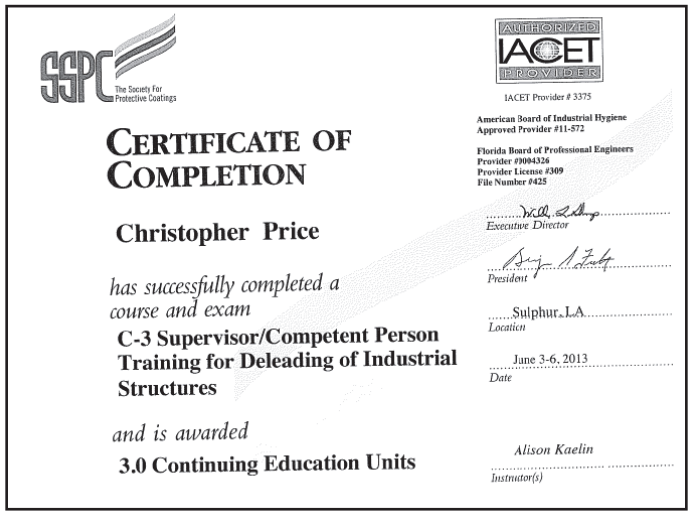
Executive Director

President

QCSeCourse
Location

February 22, 2011
Date

QCSeCourse
Instructor(s)



SSPC The Society For Protective Coatings

AUTHORIZED IACET PROVIDER

IACET Provider # 3375

American Board of Industrial Hygiene
Approved Provider #11-572

Florida Board of Professional Engineers
Provider #0004326
Provider License #309
File Number #425

CERTIFICATE OF COMPLETION

Christopher Price

has successfully completed a course and exam
C-3 Supervisor/Competent Person Training for Deleading of Industrial Structures

and is awarded
3.0 Continuing Education Units

Executive Director

President

Sulphur, LA
Location

June 3-6, 2013
Date

Alison Kaelin
Instructor(s)

NACE INTERNATIONAL INSTITUTE

Certificate of Achievement

The NACE International Institute Recognizes

Christopher Price

As a Certified

NACE Certified Coating Inspector - Level 3

Executive Director
NACE International Institute

Expires
April 8, 2025

Cert No.50841

591570

20. Certifications/Licenses

Additional Certificate and Licenses - KGC Environmental Services, Inc.

SSPC The Society For Protective Coatings

ACCREDITED IACET PROVIDER

IACET Provider # 1003373
Florida Board of Professional Engineers, Provider #0004326
New York Board of Professional Engineers

CERTIFICATE OF COMPLETION

Chris R. Price
ID # 1299173
Has fulfilled the requirements of
SSPC: The Society for Protective Coatings'

LEAD PAINT REMOVAL REFRESHER (C5)
Supervisor/Competent Person Training for Deleading of Industrial Structures

And is awarded
0.8 Continuing Education Units

Course Date(s):
7/11/2021-7/11/2021

Location: Kenner, Louisiana
United States

Instructor(s):
1283130 Sonya Peters, PCS

SSPC President

www.sspc.org | 800 Trumbull Drive, Pittsburgh, PA 15205-4365 | P:412.281.2331 T:877.281.7772 F:412.444.3591

NACE INTERNATIONAL INSTITUTE

Certificate of Achievement

The NACE International Institute Recognizes

Justin Beitzel

As a Certified

NACE Coating Inspector Level 2

Executive Director
NACE International Institute

Expires
July 31, 2023

Cert No.46202

574509

COLUMBIA SOUTHERN UNIVERSITY

To all whom these letters shall come greetings
be it known that

Justin James Beitzel

having satisfactorily pursued the studies and passed the examinations required for the professional credentials of

Industrial Hygiene Management Certificate

Signed and Sealed April 18, 2014

President

Provost

SSPC The Society For Protective Coatings

ACCREDITED IACET PROVIDER

IACET Provider # 1003373
Florida Board of Professional Engineers, Provider #0004326
New York Board of Professional Engineers

CERTIFICATE OF COMPLETION

Justin Beitzel
ID # 1299172
Has fulfilled the requirements of
SSPC: The Society for Protective Coatings'

LEAD PAINT REMOVAL REFRESHER (C5)
Supervisor/Competent Person Training for Deleading of Industrial Structures

And is awarded
0.8 Continuing Education Units

Course Date(s):
7/11/2021-7/11/2021

Location: Kenner, Louisiana
United States

Instructor(s):
1283130 Sonya Peters, PCS

SSPC President

www.sspc.org | 800 Trumbull Drive, Pittsburgh, PA 15205-4365 | P:412.281.2331 T:877.281.7772 F:412.444.3591

20. Certifications/Licenses

Additional Certificate and Licenses - KGC Environmental Services, Inc.

SSPC The Society For Protective Coatings

ACCREDITED IACET PROVIDER

IACET Provider # 1003373
Florida Board of Professional Engineers, Provider #0004326
New York Board of Professional Engineers
American Board of Industrial Hygiene
Approved Provider #10-193

CERTIFICATE OF COMPLETION

Justin Beitzel

Has fulfilled the requirements of
SSPC: The Society for Protective Coatings'

C-3 SUPERVISOR/COMPETENT PERSON TRAINING FOR DELEADING OF INDUSTRIAL STRUCTURES

Course Date(s): 10/19-22/15

Location: Irving, TX

Instructor(s): Fred Smith

SSPC President | SSPC Executive Director

And is awarded
3.0 Continuing Education Units

www.sspc.org | 40 24th Street 6th Floor Pittsburgh, PA 15222-4656 | P: 412.281.2331 T: 877.281.7772 F: 412.281.9992

SSPC The Society For Protective Coatings

AUTHORIZED IACET PROVIDER

IACET Provider # 1003375
Florida Board of Professional Engineers, Provider #0004326
New York Board of Professional Engineers

CERTIFICATE OF COMPLETION

Justin Beitzel

Has fulfilled the requirements of
SSPC: The Society for Protective Coatings'

Quality Control Supervisor (QCS) eCourse

Course Completion Date: *8/12/2019*

Location: SSPC eCourse

Instructor(s): SSPC eCourse

SSPC President | SSPC Executive Director

And is awarded
1.5 Continuing Education Units

www.sspc.org | 800 Trumbull Drive, Pittsburgh, PA 15205-4365 | P: 412.281.2331 T: 877.281.7772 F: 412.444.3591

20. Certifications/Licenses

Additional Certificate and Licenses - Moffatt & Nichol, Inc.

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Steven Armstrong

has participated in

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

hosted by

Kentucky Transportation Cabinet

Date: March 10-13, 2020
Location: Frankfort, KY

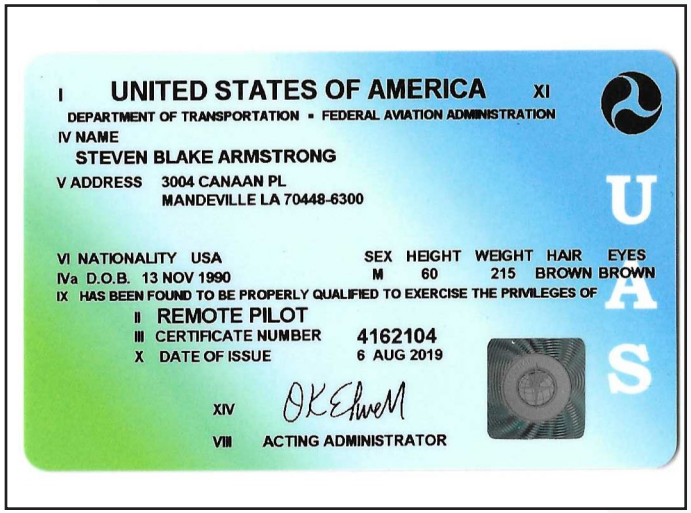
Hours of Instruction: 25

Instructor

Local Coordinator

Instructor

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



I UNITED STATES OF AMERICA XI
DEPARTMENT OF TRANSPORTATION ▪ FEDERAL AVIATION ADMINISTRATION
IV NAME
STEVEN BLAKE ARMSTRONG
V ADDRESS 3004 CANAAN PL
MANDEVILLE LA 70448-6300

VI NATIONALITY USA SEX HEIGHT WEIGHT HAIR EYES
IVa D.O.B. 13 NOV 1990 M 60 215 BROWN BROWN
IX HAS BEEN FOUND TO BE PROPERLY QUALIFIED TO EXERCISE THE PRIVILEGES OF
II REMOTE PILOT
III CERTIFICATE NUMBER 4162104
X DATE OF ISSUE 6 AUG 2019
XIV
VIII ACTING ADMINISTRATOR

U S A

FAA Aviation Safety

Certificate of Achievement

This is to certify that

Steven Blake Armstrong

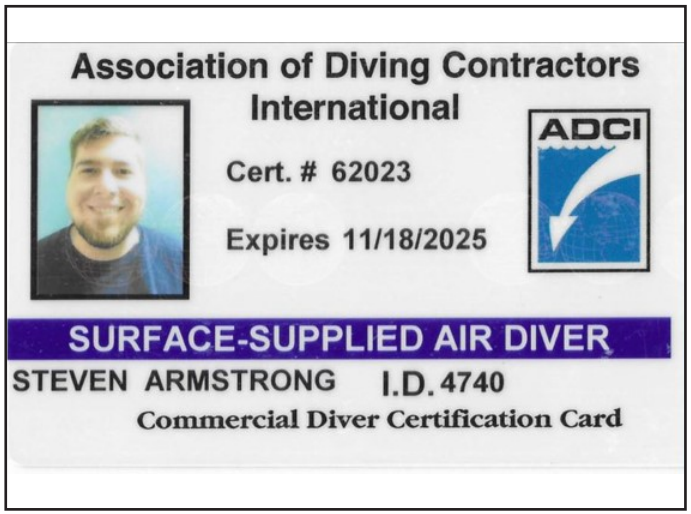
has successfully completed the
FAA Safety Team Aviation Learning Center Online Course

Part 107 Small Uas Recurrent

Course Number ALC-677
Presented by Online Courses
September 9, 2021

Certificate Number 1231957-20210909-00677

Patricia Mathes, Manager, National FAA Safety Team



Association of Diving Contractors International

ADCI

Cert. # 62023

Expires 11/18/2025

SURFACE-SUPPLIED AIR DIVER

STEVEN ARMSTRONG I.D. 4740

Commercial Diver Certification Card

20. Certifications/Licenses

Additional Certificate and Licenses - Moffatt & Nichol, Inc.

National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

Certificate of Training

Steven Armstrong

has participated in

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

hosted by

Virginia Department of Transportation

Date: March 16-30, 2018
Location: Fredericksburg, Virginia

Hours of Instruction: 67 Hrs

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

Certificate of Training

Steven Armstrong

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Terracon Consultants, Inc.

Date: December 6-9, 2016
Location: Cincinnati, OH

Hours of Instruction: 24

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

Certificate of Training

STEVEN ARMSTRONG

has participated in

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

hosted by

LA DOTD/LTRC

Date: October 22, 2018
Location: Baton Rouge, LA

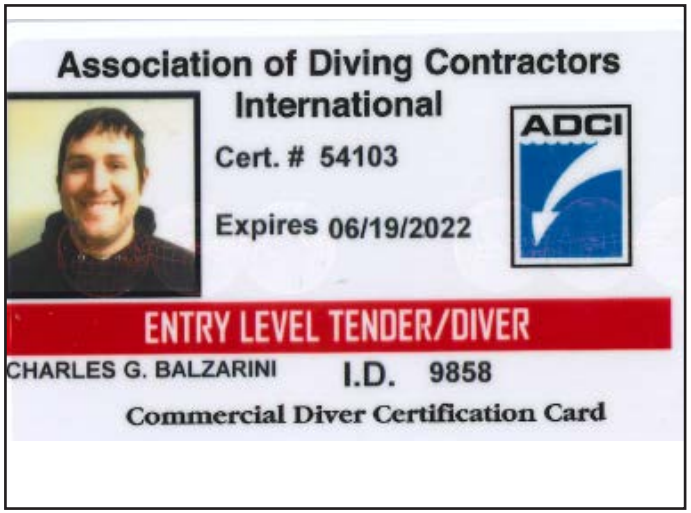
Hours of Instruction: 6

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute



Association of Diving Contractors International

Cert. # 54103

Expires 06/19/2022

ADCI

ENTRY LEVEL TENDER/DIVER

CHARLES G. BALZARINI I.D. 9858

Commercial Diver Certification Card

20. Certifications/Licenses

Additional Certificate and Licenses - Moffatt & Nichol, Inc.

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Charles Balzarini

has participated in

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

hosted by

Ohio Department of Transportation

Date: 9/26/16 – 10/7/16
Location: Columbus, OH
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

CHARLES BALZARINI

has participated in

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

hosted by

LA DOTD/LTRC

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

Instructor
Instructor
Local Coordinator
Michael Davies, Director
National Highway Institute

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

SPRAT

Acknowledges that

CHARLES BALZARINI

has demonstrated through practical and written examinations attainment of SPRAT's Certification Requirements for Rope Access Work, and is therefore

CERTIFIED

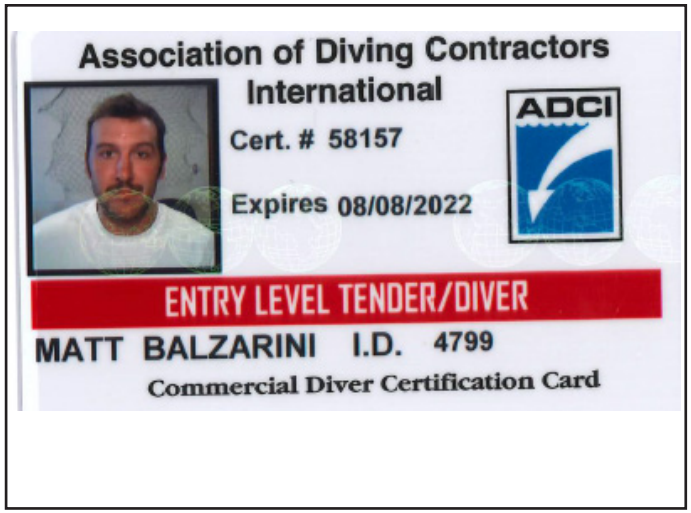
Level I Rope Access Technician

SPRAT #190894
AWARDED: May 03, 2019
Expires: May 3, 2022

ROBERT DUNSHEA, EVALUATIONS COMMITTEE CHAIR

WILLIAM McCOOK (TRULL), SPRAT PRESIDENT

©2012 - Present, Society of Professional Rope Access Technicians



Association of Diving Contractors International

Cert. # 58157

Expires 08/08/2022

ADCI

ENTRY LEVEL TENDER/DIVER

MATT BALZARINI I.D. 4799

Commercial Diver Certification Card

20. Certifications/Licenses

Additional Certificate and Licenses - Moffatt & Nichol, Inc.

Presented to

Matthew Balzarini

For completion of 72 classroom hours of training in

Bridge Condition Inspection Training - BCIT

Sponsored by
WSDOT Local Programs
Washington State Local Technical Assistance Program and

March 30, 2018
Lacey , Washington

U. S. Department of Transportation
Federal Highway Administration

Debbie Lehmann
FHWA Division Bridge Engineer

Washington State Department of Transportation

Roman Peralta, P.E., Local Agency Bridge Engineer
WSDOT Local Programs

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS

SPRAT

Acknowledges that

MATTHEW BALZARINI

has demonstrated through practical and written examinations, attainment of SPRAT's Certification Requirements for Rope Access Work, and is therefore

CERTIFIED

Level I Rope Access Technician

SPRAT #190895

AWARDED: May 03, 2019
Expires: May 3, 2022

ROBERT DUNSHEA, EVALUATIONS COMMITTEE CHAIR

WILLIAM McCOOK (TROLL), SPRAT PRESIDENT

©2012 - Present; Society of Professional Rope Access Technicians

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NATIONAL HIGHWAY INSTITUTE

Certificate of Training

MATTHEW BALZARINI

has participated in

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

hosted by

LA DOTD/LTRC

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

Instructor

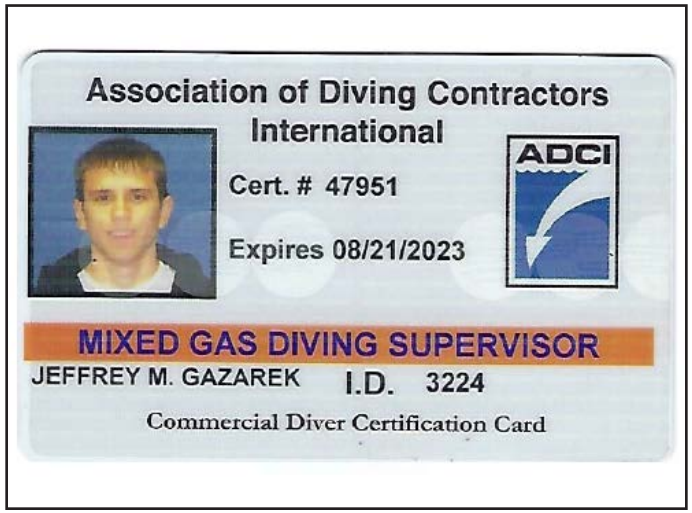
Local Coordinator

Instructor

Michael Davies, Director
National Highway Institute

20. Certifications/Licenses

Additional Certificate and Licenses - Moffatt & Nichol, Inc.



20. Certifications/Licenses

Additional Certificate and Licenses - Moffatt & Nichol, Inc.

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

nhi national highway institute

Certificate of Training

JEFFREY GAZAREK

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

LA DOTD/LTRC

Date: May 12-14, 2020 *Hours of Instruction:* 18

Location: Web-Conference Course

Instructor

Allison H Landry
Local Coordinator

Instructor

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

Chace Hulon, PE

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Boston Society of Civil Engineers Section/ASCE

Date: October 1-3, 2019 *Hours of Instruction:* 18

Location: Boston, MA

Instructor

Richard T. Keenan
Local Coordinator

Instructor

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

U.S. Department Of Transportation
Federal Highway Administration

NHI NATIONAL HIGHWAY INSTITUTE

National Highway Institute

Certificate of Training

Chace Hulon

has participated in

Safety Inspection of In Service Bridges
NHI Course 130055A

hosted by

Iowa State University

Location: Des Moines, IA *Hours of instruction:* 80

Date: June 20 – July 1, 2005

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

NHI NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Chace Hulon

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

Local Coordinator

Instructor

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

20. Certifications/Licenses

Additional Certificate and Licenses - Moffatt & Nichol, Inc.

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NHI
NATIONAL HIGHWAY INSTITUTE

Certificate of Training

CHACE HULON

has participated in

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

hosted by

LA DOTD/LTRC

Date: *October 22, 2018* ***Hours of Instruction:*** 6

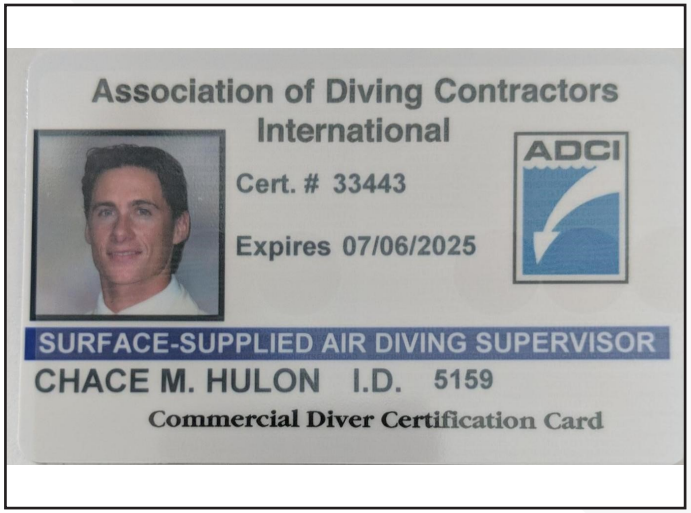
Location: *Baton Rouge, LA*

Instructor

Allison H. Landry
Local Coordinator

Instructor

Valerie Briggs
Valerie Briggs, Director
National Highway Institute



CERTIFICATE OF COMPLETION

This certificate is awarded to

CHACE HULON

For completion of the following course

MARINE ENGINEERING SONAR COURSE - LEVEL ONE

Presented by

STS
SONAR TRAINING SOLUTIONS

Given on 11-14 June, 2018, in Traverse City, MI.
Total Contact Hours for this course: 32 Hours

Instructor/Member of Sonar Training Solutions, LLC

15 June, 2018
Date

20. Certifications/Licenses

Additional Certificate and Licenses - Moffatt & Nichol, Inc.

SPRAT®
Society of Professional Rope Access Technicians

November 22, 2017

Chace Hulon
15859 Antietam Ave
Baton Rouge, LA 70817
USA

Dear Chace:

Congratulations! You have successfully completed certification testing for Level II Rope Access Technician and are hereby awarded the enclosed certificate. Please note that you are required to adhere to the Society's consensus safety standard, ***Safe Practices for Rope Access Work*** - most recent edition.

Once again, congratulations! Be sure to contact the Society 90 days prior to the expiration of this certification to arrange for re-certification testing.

Sincerely,

Charley Rankin , Evaluations Committee Chair

William McCook (Troll), SPRAT President

Society of Professional Rope Access Technicians
994 Old Eagle School Road, Suite 1019, Wayne, PA 19087-1866
610-971-4850 (phone) 610-971-4859 (fax)
info@sprat.org https://sprat.org

Association of Diving Contractors International

Cert. # 62022

Expires 11/18/2025

ADCI

SURFACE-SUPPLIED AIR DIVER

JOSHUA MARTINEZ I.D. 0713

Commercial Diver Certification Card

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

NHI NATIONAL HIGHWAY INSTITUTE

Certificate of Training

Joshua Martinez

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Arizona Department of Transportation

Date: *October 22-24, 2019*
Location: *Phoenix, AZ*

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

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

20. Certifications/Licenses

Additional Certificate and Licenses - Moffatt & Nichol, Inc.

National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

Certificate of Training

Joshua Martinez

has participated in

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

hosted by

CDM Smith

Date: April 13-24, 2015 *Hours of Instruction:* 67 hours
Location: Cary, NC

Instructor — Local Coordinator

Instructor — Valerie Briggs, Director, National Highway Institute

National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Joshua Martinez

has participated in

NHI Course No. FHWA-NHI-130101

Introduction to Safety Inspection of In-Service Bridges - WEB-BASED

hosted by

National Highway Institute

Location: Web-Based Course *Hours of Instruction:* 14 hours
Date: 4/1/2015

Valerie Briggs, Director
National Highway Institute

National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

Certificate of Training

JOSHUA MARTINEZ

has participated in

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

hosted by

LA DOTD/LTRC

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

Instructor — Local Coordinator

Instructor — Michael Davies, Director, National Highway Institute

20. Certifications/Licenses

Additional Certificate and Licenses - Vectura Consulting Services, LLC

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 1

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 3

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

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

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

20. Certifications/Licenses

Additional Certificate and Licenses - Vectura Consulting Services, LLC

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

20. Certifications/Licenses

Vectura Consulting Services, LLC

DBE Certificate

RTA

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

This is to certify that under Title 49, Part 26 of the Code of Federal Regulations & under the State of Louisiana United Certification Program (LAUCP)

VECTURA CONSULTING SERVICES, LLC

Is a Certified Disadvantaged Business Enterprise (DBE) & Small Business Element (SBE) in the following specialties:

NC488490, NC541330, 541340

NOTE: There may be other approved NAICS Codes. The online DBE Directory includes a complete list of approved codes.

Certificate Eligibility: June 2021 to May 2022

This certificate is valid through the above date provided. This firm meets the on-going programmatic standard and fulfills the annual update requirement to remain in good standing as a DBE. This certification is subject to annual verification and suspension or revocation based upon reasonable cause to believe that the firm is ineligible.

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development

Section 21:
QA/QC Plan

21. QA/QC Plan

Contract No. 4400023921

SAMPLE BRIDGE PROJECT QA/QC MANAGEMENT PLAN

Revised: 05/09/2022

BRIDGE PROJECT QUALITY MANAGEMENT PLAN

INDEX

1.0 INTRODUCTION

1.1 PROJECT INTRODUCTION

This document was developed to provide quality control (QC)/quality assurance (QA) procedures for multiple IDIQ contracts for bridge preservation advertised by the LADOTD. The intent of this HNTB QMP is to supplement Part I, Chapter 3 of the LADOTD Bridge Design and Evaluation Manual.

1.2 QUALITY INTRODUCTION

The HNTB doctrine states – sustainability, profitable growth, best business practices and "4 for 4". HNTB's "4 for 4" is our performance standard for each and every project as stated below:

- ☑ Quality Work
- ☑ On Time
- ☑ On Budget
- ☑ To the Client's Satisfaction on Every Project

Quality is a key component of this doctrine and is expected in everything we do. HNTB has defined the standard of quality that is to be achieved in our Manual of Professional Practice (MPP) and has established general guidelines for achieving this goal and documenting the results.

The HNTB team is aware that QC and QA is our responsibility, not the responsibility of the LADOTD. We are committed to providing high-quality, accurate work on all deliverables associated with this contract.

The **Bridge QMP** establishes planned and systematic processes necessary to provide adequate confidence that this project will conform to the established quality requirements. It consists of two key components, QC and QA.

This QMP provides an understanding of basic quality processes set forth for the project and the procedures established for implementing those processes. The general procedures outlined herein are recommended for use on all tasks including the management of our subconsultant's work products. These procedures are intended to serve as guidelines and are not intended to be a replacement for sound professional judgment.

The following QMP was developed in accordance with HNTB Gulf Coast District QMP and Part I, Chapter 3 of the LADOTD Bridge Design Manual "Policy for quality control and quality assurance (QC/QA)".

1.3 DEFINITION OF TERMS AND POSITIONS

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

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

Designer: Engineer directly responsible for the development of design calculations, drawings, special provisions and cost estimates. Must be either a licensed professional engineer or engineer intern.

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

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

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

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

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

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

Detailer: Individual responsible for preparing drawings.

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

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

Quality Project Manager (QPM)/Quality Task Manager (QTM): Individual responsible for conducting audits and ensuring QC plans are adhered to. The QPM is responsible for the entire project and all aspects and the QTM are responsible for each discipline.

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

Peer Review: Independent engineering entity, with no prior involvement in the project, performs a check of the designs by producing an independent set of calculations based on the drawings or performs the review as specified in the scope of work. Peer reviewer may not be employed by the same consultant with whom the designer or design checker is employed. Peer reviews are typically performed between 60% to 98% final plans stage depending on the scope of the review. It is not within the scope of services for this project.

Audit: A systematic, independent and documented activity performed to verify that applicable elements of the QMP have been effectively implemented and documented in accordance with the specific requirements.

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

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

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

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

1.4 SUBCONSULTANTS

Any work performed by a subconsultant to HNTB shall be held to the same quality standards as described herein for HNTB produced work. The subconsultant will be responsible for following the Movable Bridge QMP. As part of the HNTB team project kick-off, all team members will participate in a quality training session to ensure all parties understand QC/QA requirements and expectations. At a minimum, additional quality training sessions will be held yearly to reinforce quality processes and introduce processes to any new team members.

1.5 FILE MANAGEMENT

Projectwise will be used to manage electronic files between HNTB, Ardaman, Civix, ELOS, Forte and Tablada, KGC, Moffatt & Nichol, Vectura, WJE and LADOTD. Separate folder structures will be created for each structure. ProjectWise will be used to transfer data between LADOTD and HNTB. CADD drawings will be created and modified on local servers. Once complete, all team members will upload PDF CADD files to Projectwise to initiate quality reviews. HNTB will upload final CADD and PDF files will be uploaded to ProjectWise.

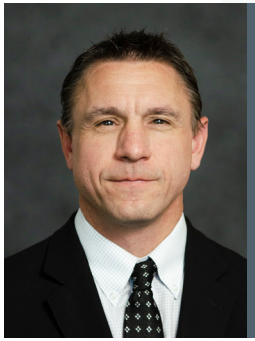
1.6 CADD

All drawings will be developed in Microstation V8i and be CADD conformed to LADOTD standards.

1.7 RESPONSIBILITIES OF THE LADOTD BRIDGE TASK MANAGER

LADOTD bridge task manager will not be responsible for QC/QA of HNTB or our subconsultant's work. The LADOTD bridge task manager will be responsible for items listed in Section 3.3.2 of Part I, Chapter 3 of the Bridge Design Manual. Some, but not all, items are listed below:

- Develop scope.
- Approve design criteria submitted by HNTB.
- Review and approve bridge type, size and location (TS&L) and ensure design criteria is updated as project progresses.
- Review consultant submittals. Selectively check dimension and details as a cursory review of the plans for constructability, consistency, and clarity but not as QC/QA of HNTB work.
- Monitor project schedule – HNTB is ultimately responsible for maintaining schedule or communicating concerns with LADOTD PM.
- Monitor budget - HNTB is ultimately responsible for maintaining budget or communicating concerns with LADOTD PM.



HANS HUTTON, PE, SE, will serve as one of the QC/QA managers for this contract. He is a is a vice president, HNTB Fellow and chief engineer. His thorough understanding of both fixed and movable bridges as well as roadway, railway and pedestrian bridges qualifies him to serve as a QC/QA manager for this contract. Han's knowledge and leadership will ensure all assignments are completed with the utmost level of quality.

STEVEN HAGUE, PE, SE, will serve as one of the QC/QA managers for this contract. His thorough understanding of site-specific seismology, and geotechnical soil and rock remediation, as well as his ability to review and coordinate a wide variety of disciplines to ensure that all the necessary pieces of a complex design come together successfully allow him to provide the greatest level of quality for this contract.

HNTB will use the QC/QA manager whose skill set best matches the current assignment. This will ensure that all current industry standards, technology, and best practices are being used. HNTB will also assign a local office Quality Project Manager (QPM) to ensure the quality process is followed on all deliverables.

2.0 QUALITY CONTROL PROCESS

QC is defined as the procedures and processes established to meet the project requirements for quality as stated in the QMP and the accepted standard of care. It is our basic checking procedures for ensuring accuracy and completeness. The following are the standard checking formats for hard copy documents (such as hand calculations, program input files and plans) and electronic documents (such as word documents) that should be implemented for all QC processes:

Design Calculations and LADOTD Approved Design Programs

QC starts first with the designer. The designer is responsible for reviewing all calculations prior to being checked.

A copy of the original document is made for documentation of all review activities. For checking of design programs, a printout of the input and output should be provided to the checker, however, the checker is only responsible for checking the input and reviewing the output to verify the input.

Review of the document for correctness and completeness is performed by the **checker**.

- Changes are **marked in red**.
- Correct items are **highlighted in yellow**.
- Correct full paragraphs (or pages) are marked with a **yellow diagonal**.
- Input files are 100% checked. Controlling values of output files will be verified as an additional check.
- When the checker is complete, all text will be either **highlighted in yellow** or **marked in red**. By doing so, the QPM can easily verify if the entire document has been checked.

A back-check of all comments/proposed changes is performed by the design **back-checker** (usually the **originator**).

- Agreement is shown with a **green check mark** ✓.
- Disagreement is discussed with **checker** and noted with a **green STET** (no change required) upon concurrence with original value.

All agreed upon changes are made to the original document by the **updater**.

- Items are **circled in blue** to show that the change has been made.

All updates to the document are verified for completeness and correctness by the **verifier** (usually the **checker**).

- **Blue circles** are **highlighted in yellow** to show that updates were made.

Once complete, there should be two copies of the design calculations. One yellow highlighted copy with changes noted in red, agreement in green, blue circle to note the change is made and yellow over the blue indicating the change has been verified. The second copy is the corrected copy and should have the checker and back-checker initials. The corrected copy will be included as part of the design calculation book submitted to LADOTD. Both files shall be uploaded to the Team ProjectWise folder.

Electronic Documents (Word, PDFs, etc.) (Not Design Programs)

A review of the document for correctness and completeness is performed by the **checker**.

- Changes are shown in an inserted comment box or using track changes in a Word Document.
- Correct items are **highlighted with yellow**.
- Correct full paragraphs (or pages) are **highlighted in yellow**.
- Checker will save a version of the checked file once checking is complete.

A back-check of all comments/proposed changes is performed by the **back-checker** (usually the **originator**).

- Agreement is shown by typing "concur" and initialing in comment box or accepting changes (Word Document).
- Disagreement is discussed with **checker** and noted with a STET in comment box with initials of both parties or by rejecting changes (Word Document) upon concurrence with original value.
- Back-checker will save a version of the file once back-checking is complete.

All agreed upon changes are made to the original document by the **originator** (or **updater** if track changes was not used). A version will be saved once updating is complete.

All updates to the original document are verified for completeness and correctness by the **verifier** (usually the **checker**). The final, clean version will be saved once verification is complete. Associated files shall be uploaded to the Team ProjectWise folder.

Plans (All Submittals to LADOTD)

A set of plans is printed to PDF and each sheet stamped with a PDF checking print stamp (see Appendix).

Review of the plans for correctness and completeness is performed by the checker. The preference is this checking process occur within Bluebeam, but printing paper copies and hand marking is acceptable.

- Changes are **marked in red**.
- Correct items are **highlighted in yellow**.
- If **checker** has significant comments and changes, plans shall be updated accordingly and checking process restarted.
- **Checker** must be a professional engineer or engineer intern and cannot be the **designer** of the plans.

The **detail back-checker** (usually the **designer**) will perform a back-check of all comments/ proposed changes. **Back-checker** is responsible for reviewing all items on the drawing including items marked by **checker**.

- Agreement is shown with a **green check mark** ✓.
- Disagreement is discussed with **checker** and noted with a **green STET** upon concurrence with original value.

All agreed upon changes are made to the original document by the **updater**.

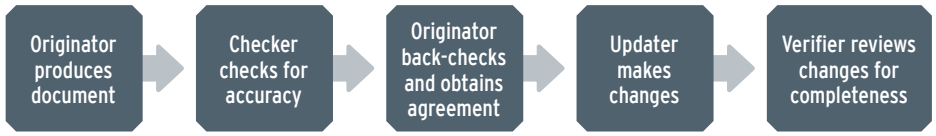
- Items are **circled in blue** to show that the change has been made.

All updates to the document are verified for completeness and correctness by the **verifier** (usually the **checker**).

- **Blue circles** are **highlighted in yellow** to show that updates were made.

Once complete, there should be two copies of the plans. One yellow highlighted copy with changes noted in red, agreement in green, blue circle to note the change is made and yellow over the blue indicating the change has been verified. The second copy is the clean, corrected copy and will be the official deliverable document. Both files shall be uploaded to the Team ProjectWise folder.

A basic checking procedure is displayed below:



2.1 LEVELS OF REVIEW

There are two levels of review that are utilized within the QC process, as defined below. A given project task could receive a Level 1 or a Level 2 review, or both as deemed appropriate by the supervisor or team leader.

Level 1 - 100% checking of a produced document to include drawings, calculations, spreadsheets, special provisions, tables within reports, program input, graphic elements for reports or presentations, design programs, CADD modeling input.

Level 1 - 100% Document Check

- Check everything on a sheet.
- Use the appropriate standard checking format.
- Document checking procedures on an attached check print sign off sheet or by check print stamp (see Appendix for examples).
- Copy and upload original checked documents as color PDF files to the project QC directory, to await audit.

Level 1 - 100% Input Check

- Checking is only for input data.
- Use the appropriate standard checking format
- Verify that the software or spreadsheet used is appropriate.
- LADOTD pre-approved software does not require validation.
- Verify any previously prepared MathCad and Excel spreadsheets.
- Document checking procedures on an attached check print sign off sheet (see Appendix).
- Copy and upload original checked documents as color pdf files to the project "QC" directory, to await audit.

Level 2 - Peer or senior technical review of documents to include drawings, calculations, report text, CADD documents, shop drawings and RFIs, presentation materials and QA checklists; inter-disciplinary, constructability and independent technical reviews; review and oversight of subconsultant submittals.

- Check or validate only specific items as determined by the supervisor or team leader
- Use the appropriate standard checking format.
- Document checking procedures on an attached check print sign off sheet or by check print stamp (see Appendix for examples).
- Copy and upload original checked documents as color PDF files to the project QC directory, to await audit.

3.0 QUALITY ASSURANCE PROCESS

QA is defined as the systematic activities implemented to provide confidence that the QC processes are followed in compliance with the QMP. These are our audit processes for verifying that the appropriate checking procedures have been performed and documented, and our corrective action plans for addressing problems have been identified within the processes. The keys to an effective quality program lie in the accountability, compliance and continual improvement of the program.

Once the QC processes have been performed, a QA process must be implemented to confirm that the QC procedures were performed to the expectations documented in the QMP. The following procedures should be part of the assurance/validation process.

3.1 Audits

Each consultant shall be responsible for uploading their quality checked files onto ProjectWise for QA and notifying the QPM. The QPM will audit the QC records prior to each submission to confirm that all QC procedures have been performed for each task of the deliverable, and record the findings on associated form (see Appendix). Upon approval of the quality documents, the QPM will move each approved document into the project quality records folder and will inform the supervisor or team leader that the submittal is ready for release to the client. The office leader will also receive a hard copy of that verification.

Additionally, the HNTB office quality manager may choose this project for review at an executive level. An audit may be performed similar to the routine project audit, but will also include interviews with staff to determine if the quality management process is clearly understood and is being performed unbiased and independent of the design or production process.

The purpose of the audit is two-fold:

- Identify and correct a breakdown in quality or any instance of noncompliance to established HNTB best practice procedures through a defined corrective action plan.
- Identify opportunities for implementation of preventive action, training and continual improvement processes to enhance quality, efficiency and value to our projects and clients.

All audit findings should be documented as a part of the quality records.

3.2 Corrective Action and Preventive Action Plans

A corrective action plan (CAP) is a strategy for correcting or eliminating a problem impacting project quality or performance that has already occurred or been identified. The focus of the plan is to systematically review the root cause of the problem in an attempt to prevent the problem from recurring. The primary concepts of the plan are as follows:

- Task leads identify the problem and present to PM or QPM
- Determine the cause of the problem or unintended result
- Identify action items or plan to correct to the problem

Preventive actions are implemented in response to the identification of a trend that would potentially impact quality and lead to a project issue or problem. Preventive action is considered as a proactive undertaking. For example, if we anticipate a potential problem and take action to eliminate the causes and prevent the occurrence of that problem, this is considered to be preventive action.

If a problem or breakdown in quality is discovered during an audit, the PM will be notified immediately. The PM and QPM will perform a root cause analysis to determine the extent of the problem and develop a CAP for implementation. A follow-up meeting will be conducted with all responsible individuals to convey the CAP expectations. If a resolution cannot be reached, the office leader will become involved in the process.

4.0 QUALITY MANAGEMENT IMPLEMENTATION

For a quality program to be effective, it must be planned and implemented as part of the project work plan, and budgeted accordingly. A QMP log - Form 1.0 (see Appendix) should be filled out by the PM for every project, incorporated into the Project Work Plan and forwarded to the QPM for execution.

Proper documentation of the process throughout is also key to successfully managing quality. The following file structure should be set up within the project directory for each project:

\Job_Folder\QMP\Deliverable Name\QC (local server)

\Job_Folder\QMP\Deliverable Name\QA (ProjectWise)

\Job_Folder\QMP\Deliverable Name\Quality Records (ProjectWise)

\Job_Folder\QMP\Deliverable Name\Client Deliverable (ProjectWise)

The **QMP** folder will contain the QMP log (Form 1.0) and all project specific quality requirements, checklists, etc.

The **QC** sub-folder will receive each task item or deliverable that has been produced and is ready for review. Each deliverable will be accompanied by either Form 2.0 or Form 3.0, as determined by the PM or task leader. All assigned checkers will go here to get their assigned documents.

The **QA** sub-folder will receive each completed item or deliverable from the QC folder along with a completed Form 2.0 or Form 3.0. The PQM will go here to find all documents ready for QA.

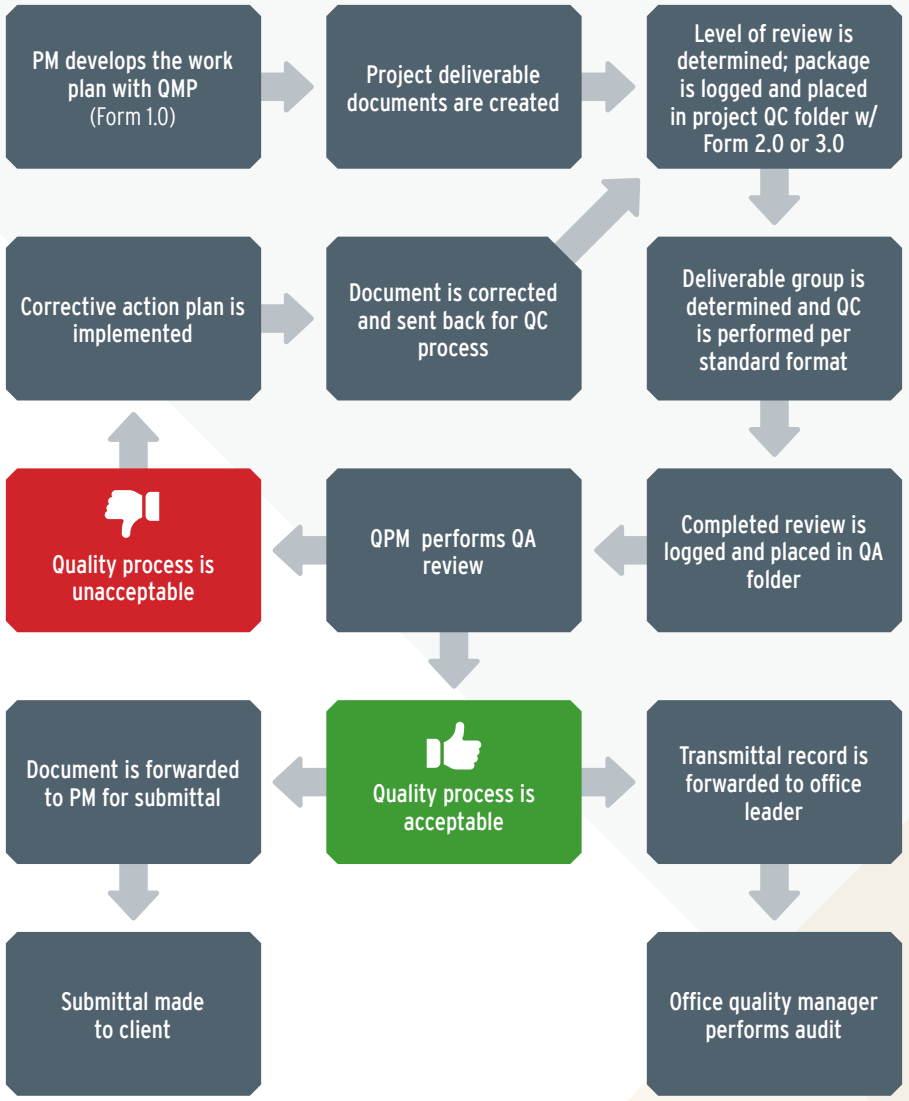
The **Quality Records** sub-folder houses all completed quality documentation that has been signed off by the QPM and the PM, all audit findings and CAP documentation.

The client deliverable folder houses only clean files which have completed QC/QA procedures that are to be submitted to the client.

4.1 QMP Process Diagram

The diagram depicts all key activities and the work flow required for the quality management process. This diagram is only intended as a guide and can be supplemented as required by the PM or QPM, based upon project complexity or client requirements.

Quality Process Diagram



5.0 DELIVERABLES

All deliverables submitted to the LADOTD will be subject to QC/QA as described in our QMP. A specific list of deliverables and milestones will be developed and described in the contract scope of work.

6.0 APPENDIX

FORM 1.0 – QUALITY MANAGEMENT PLAN LOG

FORM 2.0 - LEVEL 1 CHECK PRINT SIGN-OFF SHEET

FORM 3.0 – LEVEL 2 REVIEW MEMORANDUM

FORM 4.0 – QUALITY AUDIT CHECKLIST

FORM 5.0 – CORRECTIVE ACTION LOG/ PREVENTIVE ACTION LOG

Sample Check Print Stamps

LADOTD QC/QA Certification

LADOTD Consultant Submittal QC/QA Certification

HNTB **FORM 1.0**

Quality Management Plan Log

Project Description:	Job No. PM:
Project Fee:	QA/QC Budget:

Deliverable		QA/QC Budget	Review Level	Reviewer	Date	Completed

HNTB

Bridge Quality Management Plan FORM 2.0

LEVEL 1 CHECK PRINT SIGN-OFF SHEET

Client Name: _____

Job Title: _____

Job Number: _____

Document Title: _____

Check Level (Mark One):

☐ 1 - 100% Document Check

☐ 1 - 100% Input Check (When Pre-Validated Software in Used)

		Name	Received Date	Completion Date
Originated By:	☐			
Checked By:	☐			
Backchecked By:	☐			
Verified By:	☐			

Comments:

HNTB

Bridge Quality Management Plan FORM 3.0

LEVEL 2 REVIEW MEMORANDUM

Client Name: _____

Job Title: _____

Job Number: _____

Document Title: _____

Check Level (Mark One):

☐ Studies or Report Type Documents

☐ Documents Prepared by Others

☐ Checklist

☐ CADD QC Audit

☐ Other

Specify below:

		Name	Received Date	Completion Date
Reviewed By:	☐			

Review Findings:

HNTB

FORM 4.0

QUALITY AUDIT CHECKLIST

AUDITED AREA:	DATE(S) OF AUDIT:
AUDITOR:	AUDIT:

AUDIT ITEM	REFERENCE	METHOD OF VERIFICATION	CONFORMS	
			YES	NO
1. Have computer programs utilized been validated?	QMP Group D	Review validation records.		
2. Are calculation check prints available?	QMP Group B	Review originals and check prints		
3. Were calculations checked prior to drawing checking?	QA Folder, QMP Log	Review check prints.		
4. Are drawing check prints available?	QMP Group E	Review record set and check prints.		
5. Are check prints of specifications available?	QMP Group A	Review record set and check prints.		
6. Is checking of input to computer programs being accomplished?	QMP Group B	Review originals and check prints		
7. Are check prints of studies or report-type documents available?	QMP Group A	Review check prints.		
8. Are procedures for marking up check prints being followed? Checker - Yellow/Red Backchecker - Green Updater - Blue Verifier - Yellow	QA Folder	Review check prints.		
10. Are check prints properly signed and dated?	QA Folder	Review check prints.		
11. Are plan reviews completed?	QMP Log	Review package to verify that comment sheets are available.		
12. Are the review comments incorporated into the final documents or disposed of as otherwise noted?	QA Folder	Review for verification that Design Reviews comments have been incorporated.		
		Review for verification that comments from prior Design Reviews have been incorporated.		
13. Are check prints of graphic elements available?	QMP Group C	Review check prints.		
14. Are all checklists validated?	QMP Group D	Review check prints.		

Corrective Action Log

Form 5.0

HNTB - Quality Manager:

Project #	PM or PQM	Issue Summary	Corrective Action	Implemented
12345	Joe Smith	Subs delayed project submittal	Updated schedule for additional time for subs; weekly conference calls initiated	1/1/2012

Preventative Action Log

HNTB - Quality Manager:

Project #	PM or PQM	Issue Summary	Preventative Action	Implemented
12345	Joe Smith	Task 50% complete - 65% spent	Weekly monitoring by PM	1/1/2012

Sample Check Print Stamps

CHECKING PRINT

Checked by_____ Date_____
Back Checked by_____ Date_____
Corrected by_____ Date_____
Tracing Signed by_____ Date_____

AUXILIARY CHECKING PRINT NO.____

Checked by_____ Date_____
Back Checked by_____ Date_____
Corrected by_____ Date_____
Tracing Signed by_____ Date_____

DOTD QC/QA Certification

Project No.: H.0XXXXX
Project Name: XXXXXXXXXXXX

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

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

DOTD Consultant Submittal QC/QA Certification

Project No.: H.0XXXXX
Project Name: XXXXXXXXXXXX

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

_____
Submittal Description

_____ _____ _____
Supervisor or Team Leader Name Signature Date

Section 22:
Subconsultant Information

22. Subconsultant Information			
Firm Name (as registered with Louisiana's Secretary of State)	**Address**	**Point of Contact and Email Address**	**Phone Number**
Ardaman & Associates, Inc.	316 Highlandia Drive Baton Rouge, LA 70810	Robert Jewell RJewell@Ardaman.com	225.752.4790
Civix	3300 West Esplanade Avenue Suite 400 Metairie, LA 70002	Mona Nosari mnosari@gocivix.com	504.304.0783
ELOS Environmental, LLC	607 West Morris Avenue Hammond, LA 70403	Drake Arnone darnone@elosenv.com	985.662.5501
Forte and Tablada, Inc.	9107 Interline Avenue Baton Rouge, LA 70809	Russell "Joey" Coco, Jr. jcoco@forteandtablada.com	225.927.9321
KGC Environmental Services, Inc.	344 Black River Drive Madisonville, LA 70447	Kevin Guth kmguth@kgces.com	225.936.3456
Moffatt & Nicol, Inc.	301 Main Street, Suite 800 Baton Rouge, LA 70801	Chace Hulon chulon@moffattnichol.com	225.610.1932
NTB Associates, Inc.	*Corporate Headquarters* 525 Louisiana Avenue Shreveport, LA 71101 *Branch Office* 8643 Main Street Zachary, LA 70791	Bryan T. Bunch, PLS bbunch@ntbainc.com	225.751.4002
Vectura Consulting Services, LLC	8000 Innovation Park Drive Baton Rouge, LA 70820	Brin Ferlito bferlito@vecturacs.com	225.223.6685
Wiss, Janney, Elstner Associates, Inc.	330 Pfingsten Road Northbrook, IL 60062	Jon McGormley jmcgormley@wje.com	847.753.7234

Section 23:
Location

23. Location