

IDIQ CONTRACTS FOR BRIDGE PRESERVATION SERVICES STATEWIDE

CONTRACT NOS.

4400033117

4400033118

4400033119



by

HUVAL

PLANNING | DESIGN | CONSTRUCTION | MANAGEMENT

Prepared for
The Louisiana Department of
Transportation and Development



LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1. Contract Name as shown in the advertisement	IDIQ CONTRACTS FOR BRIDGE PRESERVATION SERVICES STATEWIDE
2. Contract Number(s) as shown in the advertisement	4400033117,440033118, AND 4400033119
3. State Project Number(s), if shown in the advertisement	
4. Prime consultant name (name must match <u>exactly</u> as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; <u>include screenshot from SOS at the end of Section 20</u>)	Huval & Associates, Inc.
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	<u>Professional Engineering – EF.0001542</u> <u>Land Surveying – VF.0000285</u> <u>DUNS – 84-067-2406</u>
6. Prime consultant mailing address	Huval & Associates, Inc. 922 West Pont Des Mouton Rd Lafayette, LA 70507
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	922 West Pont Des Mouton Rd Lafayette, LA 70507
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Colby Guidry, P.E., – Vice President, Project Manager (337) 234-3798 <u>cguidry@huvalassoc.com</u>
9. Name, title, phone number, and email address of the official with signing authority for this proposal	David S. Huval, Sr. P.E., –President (337) 234-3798 <u>dshuval@huvalassoc.com</u>

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

Pursuant to Act No. 581 of the 2024 Louisiana Legislature Regular Session, proposer further certifies that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association based solely on the entity's or association's status as a firearm entity or firearm trade association. In addition, proposer certifies it will not discriminate against a firearm entity or firearm trade association during the term of the contract based solely on the entity's or association's status as a firearm entity or firearm trade association.

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



Date:10/01/2025

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)' %:

Huval and Associates, Inc.

12. Discipline Table

Discipline(s)	% of Overall Contract	Huval & Associate, Inc.	Wiss, Janney, Elstner Associates, Inc.	Bridge Diagnostics, Inc.	Ardaman and Associates, Inc.	NTB Associates, Inc.	Vectura Consulting Services, LLC	Moffat and Nichol Inc.	ELOS Environmental LLC	Blue Wing Civil Consulting LLC	Marrero Couvillon & Associates, LLC	Each Discipline must total to 100%
Bridge	60%	65%	10%	10%				10%			5%	100%
Road	20%	85%								15%		100%
Survey	5%					100%						100%
Traffic	5%						100%					100%
Environmental	5%								100%			100%
Geotech	5%				100%							100%
Identify the percentage of work for the <u>overall contract</u> to be performed by the prime consultant and each sub-consultant.												
Percent of Contract	100%	56%	6%	6%	5%	5%	5%	6%	5%	3%	3%	

13. Team Size

Firm name	DOTD Job Classification	Number of personnel <u>committed to this contract</u> *	Total number of personnel available in this DOTD Job Classification (if needed)
Huval & Associates, Inc.	Principal	1	1
	Supervisor - Eng	2	5
	Engineer	8	20
	Engineer Intern	3	5
	Senior Technician	1	1
	Technician	1	1
	CADD Technician	3	4
	CADD Drafter	2	4
Wiss, Janney, Elstner Associates, Inc.	CADD Technician	2	8
	Clerical	4	5
	Engineer Intern	2	15
	Engineer	1	2
	Engineer - Other	3	35
	Geologist	1	2
	Principal	6	76
	Professional	4	132
	Senior Technician	2	29
	Supervisor - Arch	0	1
	Supervisor - Eng	2	17

Wiss, Janney, Elstner Associates, Inc.	Supervisor - Other	6	197
	Technician	2	11
	Inspector - Bridge	0	1
Bridge Diagnostic, Inc.	Accountant	2	3
	Administrative	2	3
	Computer Analyst	3	5
	Engineer Aide	2	3
	Engineer Intern	2	3
	Engineer	4	4
	Engineer Other	4	6
	Principal	1	2
	Senior Technician	5	7
	Supervisor - Eng	1	1
	Supervisor - Other	4	14
Ardaman & Associates, Inc.	Administrative	1	1
	CADD Technician	2	2
	Clerical	1	2
	Engineer	1	6
	Engineer Intern	3	6
	Principal	2	3
	Senior Technician	8	9
	Supervisor - Eng	3	3

Ardaman & Associates, Inc.	Supervisor - Other	3	4
	Technician	11	15
NTB Associates, Inc.	Principal	1	1
	Engineer	1	1
	Surveyor	4	6
	Supervisor - Other	1	4
	Senior Technician	0	1
	CADD Technician	1	7
	Technician	1	2
	CADD Drafter	1	5
	Party Chief	4	20
	Instrument Man	4	6
	Rodman	4	10
Vectura Consulting Services, LLC	Supervisor - Eng	2	2
	Engineer	4	6
	Engineer Intern	2	2
	Senior Technician	2	2
	Supervisor - Other	1	1
	Technician	1	2
	Clerical	1	1
Moffatt & Nichol Inc.	Principal	1	7
	Administrative	1	4

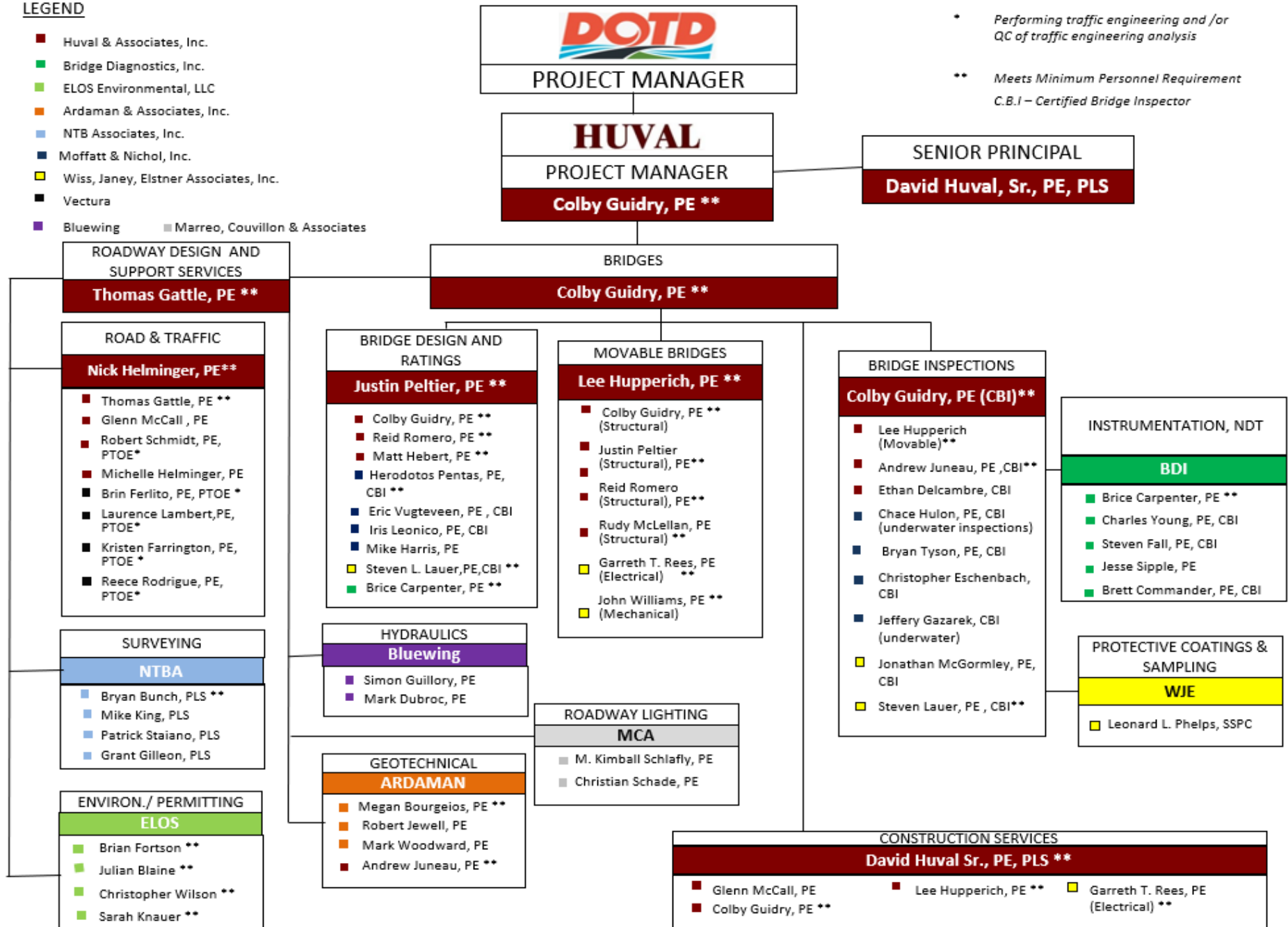
Moffatt & Nichol Inc.	CADD Technician	1	6
	Engineer	2	39
	Engineer Intern	1	8
	Inspector - Bridge	6	35
	Senior Technician	1	13
	Supervisor - Eng	2	11
ELOS Environmental, LLC	Principal	1	2
	GIS Analyst	2	3
	Environmental Pro	2	2
	Environmental Manager	2	2
	Biologist/Wetlands	3	5
	Archaeologist	1	2
	Geologist	1	1
	Inspector - Lead	1	4
	Clerical	2	2
	Historian	1	1
	Technician	2	5
	Engineer	1	2
Bluewing Civil Consulting, LLC	Engineer Intern	2	3
	Engineering-Aide	1	1
	CADD Technician	2	2
	Administrative	1	2

Marrero, Couvillon & Associates, LLC	Supervisor - Eng	1	1
	Engineer	1	5

14. Organizational Chart

LEGEND

- Huval & Associates, Inc.
- Bridge Diagnostics, Inc.
- ELOS Environmental, LLC
- Ardaman & Associates, Inc.
- NTB Associates, Inc.
- Moffatt & Nichol, Inc.
- Wiss, Janey, Elstner Associates, Inc.
- Vectura
- Bluewing
- Marreo, Couvillon & Associates



Huval and Associates, Inc.

15. Minimum Personnel Requirements

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	Colby Guidry, P.E.	Huval and Associates, Inc.	PE # 31338 - Civil	LA	09/30/2026
2	Colby Guidry, P.E.	Huval and Associates, Inc.	PE # 31338 - Civil	LA	09/30/2026
3	Colby Guidry, P.E.	Huval and Associates, Inc.	PE # 31338 - Civil	LA	09/30/2026
4	Matt Hebert, P.E.	Huval and Associates, Inc.	PE # 37713 – Civil	LA	09/30/2027
	Steven L. Lauer, P.E.	WJE	PE # 50059 – Civil	LA	09/30/2027
	Brice Carpenter	Bridge Diagnostics, Inc.	PE # 39341-Civil	LA	03/31/2027
	Herodotos Pentas, PhD, P.E.	Moffatt & Nichol Inc.	PE # 24660 - Civil	LA	9/30/2026
5	W. Lee Hupperich, P.E.	Huval and Associates, Inc.	PE # 30451 - Mechanical	LA	03/31/2027
	John R. Williams, P.E.	WJE	PE # 44300 – Mechanical	LA	09/30/2026
6	Gareth T. Rees, P.E.	WJE	PE # 40754 – Electrical	LA	09/30/2026
7	Reid Romero, P.E.	Huval and Associates, Inc.	PE # 37772- Civil	LA	09/30/2027
	Justin Peltier, P.E.		PE # 34765- Civil	LA	09/30/2027
7	Rudolph (Rudy) McLellan	Huval and Associates, Inc.	PE # 19994 - Civil	LA	03/31/2026
8	Nick Helminger, P.E.	Huval and Associates, Inc.	PE # 41937 - Civil	LA	03/31/2026
	Thomas Gattle III, P.E.	Huval and Associates, Inc.	PE # 30779 - Civil	LA	09/30/2027
9	Megan Bourgeois, P.E.	Ardaman & Associates, Inc.	PE # 36725 - Civil	LA	03/31/2026
	Andrew Juneau, P.E.	Huval and Associates, Inc.	PE # 41397 - Civil	LA	09/30/2027
10	Bryan T. Bunch, P.L.S.	NTB Associates, Inc.	PLS # 5014 - Survey	LA	03/31/2026
11	Julian Blaine - Archaeologist	ELOS Environmental, LLC			
12	Christopher Wilson - Archeologist	ELOS Environmental, LLC			
13	Sarah Knauer- Architectural Historian	ELOS Environmental, LLC			
14	Brian Fortson – Senior Project Manager	ELOS Environmental, LLC			

Huval and Associates, Inc.

16. Staff Experience

Firm employed by Huval and Associates, Inc.				
Name	Colby J Guidry, P.E.		Years of experience with this firm/employer	18
Title	Vice President and Lead Engineer		Years of experience with other firm(s)/employer(s)	7
Degree(s) / Years / Specialization		08/95-05/00, Bachelor of Science, Civil Engineering		
Active registration number / state / expiration date		31338 / LA / 09-30-2026		
Year registered	2004	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Principal /Lead Bridge Design, Inspection, Ratings / Certified Bridge Inspector / MPR # 1,2,3		
Mr. Guidry joined Huval & Associates with seven years of experience at the Federal Highway Administration (FHWA). His experience at FHWA encompassed all aspects of transportation-related projects, where he was actively involved in the environmental review, design, construction, and maintenance of bridges and roadways throughout Louisiana. Since joining HUVAL, he has participated in bridge and structural design, plan preparation, bridge inspections, and construction management/support services. Mr. Guidry has completed a two-week FHWA-approved comprehensive bridge training course for bridge inspectors and is certified as a Bridge Inspection Team Leader. He has also completed the National Highway Institute (NHI) Load and Resistance Factor Rating (LRFR) for Superstructures Course, the Work Zone Traffic Control Technician and Supervisor Courses, American Traffic Safety Services Association (ATSSA) Flagger Training, the NHI Design and Operation of Work Zone Traffic Control Course, the Roadside Design Course, the NHI Highway Hydraulics Course, the NHI Urban Drainage Design Course, and many other construction and environmental-related courses. He is very familiar with the Louisiana Department of Transportation and Development (LADOTD) Bridge Design Manuals, the 2002 AASHTO Bridge Specifications, and the current AASHTO LRFD Bridge Specifications. Mr. Guidry manages the Bridge Construction Program for St. Martin Parish and performs this role for numerous other municipalities and private clients.				
09/22 - Present		Retainer for Engineering Services for Bridge Preservation - Statewide, Contract No. 4400023923 – Project Manager of Retainer Contract. Responsible for project management, coordination, project setup, QA/QC, Load Ratings and bridge rehab design for the \$7M retainer.		
05/20-05/25		Retainer for Engineering Services for Bridge Preservation - Statewide, Contract No. 4400017262 – Lead Bridge Designer of Retainer Contract. Responsible for project management, coordination, project setup, QA/QC, Load Ratings and bridge rehab design for the \$5M retainer.		
01/08-Present		Public and Private Bridge Load Ratings – Statewide – Lead Rating Engineer for bridges all across the state on a continual basis. Numerous load ratings are performed weekly for a host of clients including parishes, cities, oil field companies, and other clients. The ratings include bridge types such as timber, steel, concrete, movable, fixed, pontoons, and trusses.		
03/23 – Present		Jimmie Davis Bridge (LA 511 – Design Build Project) – Shreveport, LA – Design Quality Control Manager for all design aspects of the project. The bridge design and construction involve a new steel girder and concrete girder bridge across the Red River as well as the complete rehabilitation of the existing LA 511 truss bridge and conversion to a Linear Park.		
11/18-Present		Old Mississippi River Railroad Bridge and Tunnel (Old US80) – Vicksburg, MS – Lead inspector and Bridge designer for the continued annual inspection program and as needed repair design and construction management. The bridge is a 1930s era truss bridge. Over the last 7 years, have been the lead inspector for the annual inspection of the bridge and tunnel, performed		

Huval and Associates, Inc.

	emergency inspections on 24-hour call for any barge impacts or other bridge emergencies, assisted in the design of multiple repair projects for the truss structure as well as for the substructure elements, and assisted in the construction project management for the various construction projects performed on the bridge.
12/19-01/23	New Swing Span- Herman Dupuis RD. Pontoon BR. Replacement, St. Martin, LA, Bridge Recall 200896 – Assisted in bridge design, performed quality control reviews, and managed the project. Scope included the full structural design and plan development of a new swing span bridge over Alligator Bayou, replacing the Butte LaRose Pontoon Bridge. Responsibilities included assisting in preparing design calculations, developing plans, detailing structural elements, performing load ratings, and preparing cost estimates.
4/18 – 4/23	Retainer for Engineering Services for Bridge Preservation - Statewide, Contract No. 4400011225 - Supervisor Engineer of Retainer Contract. Responsible for project management, coordination, project setup, QA/QC, Load Ratings and bridge rehab design for the \$4M retainer.
12/20 - 06/21	Ascension Parish 26 Bridge Ratings – Inspected, gathered documentation, rated, and provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.
01/16 – 12/17	Inner Harbor Canal Seabrook Bridge Structural Repairs – New Orleans, LA- Lead Engineer for the design of temporary and permanent repairs for the steel truss bascule bridge built in the early 1900's. The repairs were complex structural repairs to the floor system, bottom chords, laterals, stringers, and floor beams in addition to various mechanical system repairs. Adding to the complexity of this design was the requirement to perform many repairs under train live loads. An elaborate temporary jacking strut system was also designed to remove the dead and live loads in the various members during replacement.
09/12 – 12/17	Retainer Contract for Bridge Repair and Rehabilitation Services - Statewide, Contract No. 4400002537- Supervising Engineer of Retainer Contract. Responsible for coordination, inspections, project setup, QA/QC, Load Ratings, and bridge rehab design for the \$6M retainer contract.
05/11 – 08/15	Retainer for Engineering Services for Bridge Preventive Maintenance (BRPM) - Statewide, Contract No. 440001543- Lead Engineer of Retainer Contract. Led the Inspection and Design for 8 different Task Orders covering Preventive Maintenance Repairs for over 100 Bridges statewide in short timeframes.
08/09 – 06/15	Retainer Contract for Bridge Repair and Rehabilitation Services - Statewide, S.P. 700-99-0488 - Lead Engineer of Retainer Contract. Responsible for coordination, inspection team leader, project setup, bridge design, and QA/QC of Task Orders totaling approximately \$8.75M over a 5-year period. Contract utilized multiple Subconsultants on all aspects of bridge design and inspection.
01/11 - 08/14	St. Ann Bridge Over Bayou Terrebonne (Movable) Swing Span – S.P. 700-55-0107 – Lead structural designer for a new Swing span bridge over bayou Terrebonne. Also assisted with Mechanical reviews throughout the design process. Colby was involved with every aspect of this movable bridge project from environmental clearance through construction. This swing span had unique issues to overcome due to the limited vertical space due to waterway and adjacent road obstructions. Also performed Construction Oversight for LADOTD during the entire construction process.

Firm employed by Huval and Associates, Inc.				
Name	Thomas M Gattle III, P.E.		Years of experience with this firm/employer	24
Title	Director of Engineering		Years of experience with other firm(s)/employer(s)	4
Degree(s) / Years / Specialization		08/91-12/97 / Bachelor of Science Civil Engineering / Structural		
Active registration number / state / expiration date		30779 / LA / 09-30-2027		
Year registered	2003	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Roadway Design Engineer, Project Management, MPR #8		
Mr. Gattle has over 20 years of experience in the design and management of roadway and bridge projects. He has been instrumental in the design, production, and overall management of numerous projects for the Louisiana Department of Transportation and Development (LADOTD). These projects include serving as Lead Designer and Project Manager for several Bridge Rehabilitation Retainer Contracts, LADOTD Bridge Inspection projects, LADOTD Roadway Design projects and major LADOTD Alternative Delivery Projects. Additionally, Mr. Gattle was the Lead Designer for numerous road and bridge design projects for the Lafayette Consolidated Government. Prior to joining HUVAL, Mr. Gattle was in responsible charge of the I-49 Connector Environmental Impact Statement (EIS) and the I-10 Calcasieu River Bridge Environmental Assessment. He has extensive experience in roadway design, drainage design, feasibility studies, bridge design, and bridge inspection with unique experience in integrating the design of roadway and bridges for major projects.				
05/23-Present		Jimmie Davis Bridge (LA 511) (HBI) Design Build Project - S.P. H.001779 – Mr. Gattle is serving as the Project Design Manager on this project to design and construct a new 4 lane bridge across the Red River in Caddo/Bossier Parish. The project includes reconstruction of nearly 2 miles of LA 511 into a 4-lane median divided highway, construction of full access interchange connections with LA 511 at both Arthur Ray Teague Parkway and Clyde Fant Memorial Parkway, and improvements to other local roadways. Project includes conversion of rehabilitation Existing Jimmie Davis Bridge into a Linear Park, constructing new multi-use paths, and elevated ramps to connect the paths to the Linear Park.		
1/18-Present		I-10 Widening LA 415 to Essen Lane on I-10 and I-12, WBR and EBR Parishes, S.P. No. H.004100. Currently the Design Lead for the anticipated \$1.2 billion project to widen I-10 from the LA 415 interchange to the I-10/I-12 Interchange. This project consists of all aspects of infrastructure including complex bridge design and roadway design. Prior to the award for engineering services for the project, Mr. Gattle led the Constructability Analysis during the NEPA phase of the project. This included development of construction sequencing while maintaining traffic thru the corridor along with providing construction cost estimates and project timeframes. Mr. Gattle presently leads the bridge and roadway engineering efforts for the current phase of the project that includes the replacement of road and bridges from the I-10/I-110 interchange to Perkins Road interchange. This includes coordination with the DOTD, CMAR Contractor and ICE to develop the best construction value for the complex project thru Baton Rouge.		

06/16-Present	I-49 South-Verot School Road Interchange, S.P. H.011235 - HUVAL Project Manager and Prime Consultant Team Leader of roadway geometric design including traffic analysis while assisting with bridge design and construction services for this estimated \$220M project. The project will convert 2.4 miles of divided arterial roadway with open ditches to a 6-lan urban mainline freeway with an elevated interchange at the intersection of the future I-49 South/US 90 and Verot School Road. The elevated interchange consists of a bridge structure on the realigned Verot School Road that traverses over I-49 South/US 90 mainline roadway and parallel railroad. The Final Plans are 98% complete with Final ROW maps completed and waiting upon final funding from the DOTD for construction.
10/19-06/21	Comite River Diversion Bridges at LA 67, LA 19 and LA 19 Railroad Bridge CMAR Project, East Baton Rouge Parish – 4400017421 –Project Manager and Design Lead for providing geometric layout, construction sequencing and cost estimation for the first CMAR project conducted by the DOTD. The project consisted of constructing 360’ roadway bridges for LA 67, LA 19 and the adjacent railroad track to LA 19 over the proposed layout of the Comite Diversion Canal. This \$39 million project required continued coordination with the DOTD, CMAR Contractor, ICE, USACE, Geaux-Geaux Railroad and EBR Parish and was completed on-time and in advance of the on-going diversion canal construction in the area.
03/19-09/21	I-220/I-20 Interchange IMP & Barksdale Access Design-Build Project, Bossier Parish, S.P. No. H.003370. Served as the Project Design Manager and Lead Design for the Design-Build project. The Design-Build project consisted of modifying the existing I-220/I-20 Interchange to accommodate direct access to the Barksdale Airforce Base. Project included new roadway design for new directional ramps and I-220 extension, bridges over I-20 and KCS Railroad, temporary traffic control, sequence of construction and drainage design. Mr. Gattle produced the geometric layout of the project and lead the design and coordination for the \$72M Design-Build project.
03/18-12/18	GNOEC Safety Bay Improvement CMAR (Independent Cost Estimator) Assisted the Independent Cost Estimator (ICE) for the for the \$55 million Safety Bay Improvement CMAR Project. Under this contract, Mr. Gattle assisted in the efforts of producing a detailed independent cost estimate for the contract items and review the CMAR Contractor’s schedule and cost model throughout each phase of design under the CMAR pre-construction phase. Additionally, constructability reviews and design comments were performed collaboratively with the CMAR design engineer, contractor, and Program Manager.
09/12 – 12/17	Retainer Contract for Bridge Repair and Rehabilitation Services - Statewide, Contract No. 4400002537- Project Manager of Retainer Contract. Responsible for coordination, project setup, QA/QC, meetings and contracts for the \$6M retainer contract.
06/14– 04/19	I-49 South-US 90 Albertson Pkwy to Ambassador Design Build - S.P. H.010620 - HUVAL Project Manager. Lead Designer on roadway geometric layout and assisted with bridge design and construction services for this Design Build.
04/11 – 05/16	West Bank Expressway MacArthur Drive Interchange, S.P. H.002550.5 & H.009933.5 - As Project Manager and Lead Engineer, Mr. Gattle was responsible for Geometric/Span Layout Modifications and Structure Design. Mr. Gattle also coordinated the survey efforts and the responsibilities of multiple Sub-consultants for the \$34M reconstruction project to provide additional ramps from the US 90B elevated roadway to the adjacent parallel frontage roads under tight timeframes.

Firm employed by Huval and Associates, Inc.				
Name	Matthew L. Hebert, P.E.		Years of experience with this firm/employer	12
Title	Civil Engineer		Years of experience with other firm(s)/employer(s)	5
Degree(s) / Years / Specialization		08/02-05/08 Bachelor of Science Civil Engineering		
Active registration number / state / expiration date		37713 / LA / 9-30-27		
Year registered	2013	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Bridge Design and Bridge Ratings / MPR #4		
Mr. Hebert joined Huval & Associates, Inc. in 2013 with 5 years' experience in design and load rating of bridges. Previously employed with LADOTD, he was involved with the design, live load rating, plan development, and construction support of more than 20 bridge replacement projects. These consisted of various superstructure and substructure types including but not limited to: AASHTO precast prestressed concrete (P.P.C.) girders, quad beams, cast-in-place slab spans, precast slab spans, concrete box culverts, P.P.C. pile bents, steel H-pile bents, and pipe pile bents. Additionally, Mr. Hebert was project manager for multiple bridge replacement projects. His responsibilities included coordinating all aspects of the plan development process including but not limited to road, bridge, hydraulic, and geotechnical engineering and determining the project scope, schedule, and budget. Mr. Hebert's training includes the NHI LRFR for Highway Bridge Superstructure Course, the NHI AASHTO LRFD for HWY Bridge Superstructure Course NHI AASHTO LRFD for Highway Bridge Substructure Course, the NHI AASHTO Roadside Design Course, and the NHI Design and Construction of Driven Pile Foundations Course.				
01/22 - Present		I-10 Calcasieu River Bridge Public-Private Partnership, Calcasieu Parish S.P. H.003931 – Lead Engineer for LRFD design, plan preparation, and LRFR live load rating for six bridges on the project. These include Bilbo St., Ryan St., Lakeshore Drive Overpasses (EB & WB), PPG Drive Overpasses (EB & WB), US 90 Overpasses, and I-10 EB Exit Ramp Flyover.		
10/20 - Present		I-10 CMAR: LA 415 to Essen Lane on I-10 and I-12, East & West Baton Rouge Parishes S.P. H.004100 – As a Bridge Engineer on this project, assisted with the LRFD design, plan preparation, and LRFR live load rating on multiple bridge sections throughout the corridor.		
06/19 - Present		I-220/I-20 Interchange IMP & BAFA Access Design-Build Project, S.P. H.003370 – Mr. Hebert is serving as Bridge Design Quality Assurance on this design build project which will provide direct access to Barksdale Air Force Base. Most recently, Mr. Hebert has assisted with the QA of the I-220 Overpass bridges and KCS Overpass bridges on the project.		
03/18 – Present		Belle Chasse Public-Private Partnership Project, Plaquemines Parish, Louisiana, Project No. H.004791 -- Mr. Hebert was the Bridge Design Lead for the LRFD design, plan preparation, and LRFR live load rating for this new high-level fixed bridge over the Intracoastal Waterway. The new bridge will replace the existing moveable bridge and tunnel system. This is		

Huval and Associates, Inc.

	the first highway public-private partnership project in Louisiana. The bridge will be constructed in 2 stages to assist in MOT.
01/23 - 04/23	I-10 Over I-49 Emergency Repairs, S.P. H.015412 – On January 3rd, an over height vehicle struck the I-10 eastbound span over the I-49 northbound roadway. Mr. Hebert worked with LADOTD to develop a multi-staged approach to re-open I-10 eastbound as fast as possible. A new 3 girder section of the bridge had to be designed and constructed off site. It would later be hauled in with SPMT (Self propelled modular transporters) after the damaged section was removed using a similar approach.
02/17 - 11/20	I-10 Design Build-LA 42 to LA 73, S.P. No. H.009250- Lead Engineer for the LRFD design, plan preparation, and LRFR live load rating for the Highland Rd. overpass. Highland Rd. consisted of a full replacement of 2 existing structures utilizing a 3-span structure which included 2-60ft. prestressed girder spans and 1-190ft. steel plate girder span. The superstructure is support by column bents and pile bents and will be one structure at the end of the project. In order to maintain traffic, the bridge had to be constructed in 3 separate stages.
04/14 - 07/18	I-49 South-US 90 Albertson Pkwy to Ambassador Design Build, H.010620 – Lead Engineer for LRFD Bridge design and plan preparation of the mainline bridge and the two frontage road bridges over BNSF Railway. The bridges consisted of BT-72 girder spans with column bents and pile footings.
09/18 – 06/19	Loyola Design Build I-10 Airport Interchange, Jefferson Parish, Louisiana, S.P. No. H.011670- Mr. Hebert was a primary bridge engineer throughout the RFP design phase for this complex urban interchange. A new interchange was designed and superimposed onto the existing Diamond interchange to provide direct connector access to the new New Orleans International Airport terminal. Assisted in the preparation of steel tub girder design and details, concrete box girder design and details, as well as plans and proposal documents for the RFP phase of the project. Assisted in development of alternative technical concepts, suggested sequence of construction, and miscellaneous bridge design items and other details. Assisted in the coordination and organization of all project data with the various members of the design team from numerous consulting firms.
09/18 – 08/19	LA 106: Bayou Boeuf Bridge, H.009497 - Lead Engineer for the LRFD design, plan preparation, and LRFR live load rating of a new bridge structure to replacement an existing bridge. The new bridge structure consisted of LG girders and pile bents.
11/15 – 04/17	Kaliste Saloom Roadway Widening, LCG – Lead Engineer for the LRFD Bridge Design and plan preparation of an AAHSTO Type 4 girder bridge with pile bents on skew.
10/16 - 12/17	LA 443: Tangipahoa River Bridge Replacement, S.P. H.012728 – Assisted in the LRFD design, LRFR load rating, and plan preparation of a LG-25 and LG-36 p.p.c. girder bridge. This was an emergency replacement and 100% final bridge and roadway plans were completed in 8 weeks. In addition to the emergency timeline, the project had to be designed and constructed within the existing right-of-way and could not interfere with another bridge structure located approximately 250ft east of the existing bridge to be replaced. LADOTD also required that the low chord elevation of the new bridge be set to maximize the design storm flood year while also meeting all other project constraints. The design of the bridge also had to meet the LADOTD minimum design guidelines for design speed and ADT.

Firm employed by **Huval and Associates, Inc.**

Name	Rudolph (Rudy) McLellan, P.E.	Years of experience with this firm/employer	6
Title	Senior Design Structural Engineer	Years of experience with other firm(s)/employer(s)	41
Degree(s) / Years / Specialization		B.S., Civil Engineering with Honors, University of Florida, 1976 Master of Engineering in Structures, University of Florida, 1977 Post Graduate Studies in Structures, Louisiana State University, 1997	
Active registration number / state / expiration date		19994 / LA / 03/31/2026 9107 / MS / 12/31/2026 31148 / FL / 02/28/2027	
Year registered	1981,1982 &1984	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Movable Bridge Design / MPR #7	

Mr. McLellan has over 48 years of experience in every facet of structural design in over 14 states. Mr. McLellan has been **in responsible charge of many Fixed and Movable Bridge Designs**, some are as shown herein.

09/18-Present	Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Plaquemines Parish, Louisiana, Project No. H.004791 – The bridge includes the fixed high level continuous steel plate girders having spans of 160’ – 175’ – 160’ over the Intercoastal Waterway (ICWW). The project included a vessel collision design for the waterway main piers. Mr. McLellan performed final Bridge Design calculations for the ICWW Main Piers and provided QA/QC for all bridge designs.
01/87-Present	Old Mississippi River Railroad Bridge and Tunnel (Old U.S. 80), Vicksburg, Mississippi and Delta, Louisiana - Mr. McLellan performed Complex Bridge Analysis and Repair Design including bridge safety and repair inspection, bridge load rating and structure maintenance and repair plans for the existing combination highway and railway through truss. He has analyzed the entire steel truss and approach structures for the current on-going large foundation movements using modern 3-D computer software. He has developed State of the Art repair methods.
01/13 - 08/16	S.P. H.007250 Almonaster Avenue Bascule Span Movable Bridge Over The Inner Harbor Navigation Canal, Orleans Parish, Louisiana. Mr. McLellan served as the Engineer of Record and in responsible charge of the structural design for the final bridge structural design calculations for the proposed combination highway and railway steel trusses, portals, sway frames, stringers, girders, floorbeams, diaphragms, bearings, track girders, rack frames, counterweights and open grid floorings for the proposed single leaf scherzer rolling lift bascule movable 204’-52’ span. The proposed movable bridge is designed to replace an existing 1920’s Strauss movable bridge currently in service, using an in-line construction method and within a 4-day closure window.
10/02 - 09/08	S.P. 713-38-0001 Highway 11 Doullut Canal Swing Span Movable Bridge, Plaquemines Parish, Louisiana. Mr. McLellan served as the Engineer of Record and in responsible charge of the structural design for all superstructure and substructure members of the constructed low level movable bridge having a steel plate girder swing span unit with spans of 50’ - 100’ and multiple 20’ slab span approach structures. Mr. McLellan designed the swing span grid flooring, floorbeams, stringers, girders and concrete deck and steel and concrete counterweights.

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04/91 - 05/93	I-10 East Pearl River Bascule Span Movable Bridge Repairs between Mississippi and Louisiana - Mr. McLellan served as the Engineer of Record and in responsible charge of the structural design for the constructed concrete deck repairs and structural modifications to the double leaf fixed trunnion bascule bridge counterweight for deck replacement and structural steel painting. Mr. McLellan designed the removal of the existing steel grid flooring with a new replacement concrete deck system, the new steel and concrete counterweight extension system.
04/09 - 01/14	S.P. 840-43-0001 US 71 & US 165 Fort Buhlow Bridge & Approaches Over The Red River, Rapides Parish, Louisiana. Mr. McLellan was in responsible charge of the Fixed Bridge Design for all superstructure and substructure members of the constructed twin fixed high level three span continuous steel plate girders having spans 300' - 400' - 300' and the Main River Piers which are designed for marine vessel (Barge) collision.
01/06 - 03/06	Project No. ER/BR-0003-01(098) US-90 Across St. Louis Bay, Hancock and Harrison Counties, Mississippi – Mr. McLellan was in responsible charge of the Fixed Bridge Design for all the bridge superstructure and substructure members of the constructed precast post-tensioned concrete segmental variable depth modified bulb tee channel spans 200'–250'–200' and piers supported with deep pile waterline footings.
09/95 - 07/01	Project No. BRDP-9205-00(003) Mississippi River Bridge US 82 Greenville, Mississippi – Mr. McLellan was in responsible charge of the Anchor Span Piers of the Fixed Cable Stayed Bridge Design . He performed quality review of plans for the constructed steel composite alternate of the 1,378 foot cable stayed main navigational span. He performed the Complex Bridge Design for most of the constructed steel composite main span, river piers supported on dredge caisson type foundations & the anchor span piers with drilled shaft footings.
04/96 - 07/99	S.P. 239-01-0077 LA Highway 319 Intracoastal Waterway Bridge Louisa, St. Mary Parish, Louisiana - Mr. McLellan performed preliminary & final Complex Bridge Design calculations for all superstructure and substructure members of the constructed 276 foot double leaf fixed trunnion bascule movable bridge. The Louisa Bridge is the state's longest steel girder double leaf bascule bridge, is one of the longest span of its type constructed in the nation and is the recipient of the National Steel Bridge Alliance's 2007 Prize Bridge Award Winner in the movable span category.
03/85 - 01/94	I-49 / LA 3132 and I-49 / I-20 Interchanges, Shreveport, Louisiana, S.P. 455-08-23 & 455-08-20 - Mr. McLellan performed the Complex Bridge Design , quality review of plans, constructability, cost estimates & final calculations for most of the constructed members consisting of curved continuous steel trapezoidal box girders with spans to 250', steel box framed in cap beams, the post-tensioned concrete delta shaped central (tree) pier and architecturally flared piers of both the constructed four-level bridge interchanges.
04/83 - 07/86	BH-015-1(81) & (87) Mississippi River Bridge Parallel Crossing between Natchez, MS and Vidalia, LA and the Railroad Bridge Overpass in Natchez, MS. Mr. McLellan performed Complex Bridge Design for the twin, five span, multiple cantilever through truss bridge with spans to 875' over the Mississippi River. Mr. McLellan performed the final structural design and rating calculations for all superstructure and substructure members of the constructed railroad bridge overpass with steel girder spans over the highways.

Firm employed by Huval and Associates, Inc.				
Name	William Lee Hupperich, P.E.		Years of experience with this firm/employer	15
Title	Senior Mechanical Engineer		Years of experience with other firm(s)/employer(s)	13
Degree(s) / Years / Specialization			Bachelor of Science,1996, Mechanical Engineering	
Active registration number / state / expiration date			30451 / LA / 03-31-2027 27091/ MS/ 12/31/2026	
Year registered	2003 2016	Discipline	Mechanical Engineering	
Contract role(s) / brief description of responsibilities			Movable Bridge Design / Mechanical Design / MPR #5	
Mr. Hupperich has over 28 years of experience in the design and of mechanical systems for movable bridges and operator houses. Mr. Hupperich was in responsible charge of the movable bridge machinery and operators’ house designs; some are shown below.				
08/22-Present	St. Mary Parish Movable Br Repairs & St. Mary Parish Movable Br Repairs (Ph 2) – St. Mary Parish, LA; S.P. H.015224 & S.P. H.015523 – Developed plans, specifications and construction cost estimates for repairs to five (5) off system swing span bridges in St. Mary Parish: Rizzo, Katy, Sorrel, Centerville and Bridge Rd. This work consists of refurbishing/replacing the movable bridge hydraulic power units, hydraulic cylinders, and incorporating new movable traffic barriers. Mr. Hupperich is serving as the Engineer of Record and is in responsible charge of the mechanical design.			
06/22-Present	Buquet Lift Bridge Hurricane Ida Damage Inspection and Repair Plans - TPCG -IDA 0105, FEMA PW 673937 - Inspection of hurricane Ida damage to the Buquet Lift Bridge in Houma Louisiana and development of a report containing the damage and cost estimates for the respective repairs following the FEMA Consensus Based Codes, Standards and Specifications. Mr. Hupperich developed repair plans and specifications relevant to the lift span, movable bridge machinery, and repairs to the operator’s house. the span locks, air buffers, guide rollers, trunnion bearings, wire ropes, movable traffic barriers and operators house roof, siding, windows, A/C, and doors. Mr. Hupperich is serving as the Engineer of Record and is in responsible charge of the mechanical design of the movable bridge machinery, movable traffic barriers, and Operators house.			
05/22-Present	New Pontoon Bridge – Valentine Bridge Replacement, Lafourche Parish Government, Lafourche, LA –Designed, detailed, final plans, specifications, calculations, and cost estimates for the mechanical systems including the pontoon winch drive machinery, deflector sheave assemblies, apron machinery, and movable approach span hoist machinery. Mr. Hupperich is in responsible charge of the movable bridge machinery including apron, pontoon bridge, and approach span operating machinery. Mr. Hupperich is serving as the Engineer of Record and is in responsible charge of the mechanical design of the movable bridge machinery.			
08/20-Present	New Vertical Lift- GLPC, Airport Connector Road and Bridge, Lafourche, LA, S.P. H.011915 -Designed, detailed, and sealed final plans, specifications, Calculations, and cost estimates for mechanical systems for a new bridge including: tower drive machinery, span locks, counterweight ropes, skew control, differential and leveling clutch, air buffers, movable traffic barriers, fixed and expansion shoes, counterweights, guide rollers, access systems and handrailing. Currently providing construction related engineering services including shop drawing review, RFI’s, shop visits, site visits, and related project management. Mr. Hupperich is serving as the Engineer of Record and is in responsible charge of the mechanical design of the movable bridge machinery, movable traffic barriers, and access systems.			

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03/20 – 05/23	Double Leaf Bascule Rehabilitation- SR 609 Bridge over Old Fort Bayou, Jackson, MS, BR-9385-00 (017) – Designed the temporary hydraulic system including: operating cylinders, HPU, piping, and control interface. Produced a calculation package. Worked together with a hydraulic systems fabricator to build, test, ship, and install the complete system on the bridge. Mr. Hupperich served as the Engineer of Record and was in responsible charge of the movable bridge machinery relevant to the hydraulic cylinder and HPU for temporary operation.
05/21 – 05/23	New Swing Span- Herman Dupuis RD. Pontoon BR. Replacement, St. Martin, LA, Bridge Recall 200896 –Designed, detailed, and sealed final plans, specifications, calculations, and cost estimates for a new bridge including: HPU, piping, Hydraulic motor, gearbox, rack, pinion, pivot bearing, balance wheels, track, live load rockers, end wedges, span balance, and movable traffic barriers. Provided construction engineering related services including shop drawing review, RFI's, shop visits, site visits, and related project management. Mr. Hupperich served as the Engineer of Record and was in responsible charge of the movable bridge machinery and movable traffic barrier designs.
03/17 – 11/21	Vertical Lift Rehabilitation- LA 336-1: Bayou Teche Bridge Rehab (HBI); St. Martin, S.P. H.011485 – Performed site inspections and prepared a report with repair recommendations. Designed and detailed final plans, specifications, and calculations of the tower drive machinery, pier machinery and the movable traffic barrier. Coordinated with the architect to develop operators house renovation plans and specifications. Performed construction related engineering services. Mr. Hupperich served as the Engineer of Record and was in responsible charge of the movable bridge machinery.
09/17 – 02/19	Single Leaf Bascule Rehabilitation – Theriot Bridge, Terrebonne, LA, Parish Project 17-BRG-49 - Designed, detailed, and sealed final plans, specifications, calculations, and cost estimates for bridge machinery including: trunnion shaft and bearing assembly, winch and cable operating system, span balance calculations, selection of electrical components, sizing conductors, conduit runs, and pull boxes. Mr. Hupperich served as the Engineer of Record and was in responsible charge of the movable bridge machinery.
06/13 – 09/15	Swing Span Rehabilitation- LA 671: Jeanerette Bridge Wedge System Repair, Iberia, LA, S.P. H.009467 - Designed, detailed, and sealed final plans, specifications, and cost estimates for repairs to the end wedge system, refurbishment of the pivot bearing, adjustments to the span operating machinery. Performed construction related engineering services: submittal and shop drawing review, RFIs, and field inspections. Mr. Hupperich served as the Engineer of Record and was in responsible charge of the movable bridge machinery repairs.
10/11 – 03/14	Vertical Lift Bridge Rehabilitation- US 165-B: Red River - Jackson Street Bridge, Alexandria, LA, S.P. H.000579 – Designed and developed plans, specifications, and cost estimates for the tower drive machinery, span locks, air buffers, traffic barrier machinery, and operator's house renovation, HVAC, plumbing, STP, lift station and related. Performed construction services including submittal and shop drawing review, RFIs, and conducting field inspections. Mr. Hupperich served as the Engineer of Record and was in responsible charge of the movable bridge machinery and operator's house.
04/03 - 04/10	Movable Bridge Design Experience while at DOTD: - Bayou Terrebonne, Prospect Street, Houma, S.P. 065-91-0016; Bayou Lafourche, Larose, S.P. 064-05-0085; Bayou Teche, Lewis Street, New Iberia, S.P. 823-46-0001; Designed, detailed, developed specifications and cost estimates of the movable bridge machinery, movable traffic barrier and the operator's house portions of the above projects. Performed some construction services, including reviewing equipment submittals, shop drawings, responding to RFIs, and conducting field inspections. Mr. Hupperich served as the Engineer of Record and was in responsible charge of the movable bridge machinery and operator's house.

Firm employed by Huval and Associates, Inc.				
Name	Justin Peltier, P.E.		Years of experience with this firm/employer	12
Title	Civil Engineer		Years of experience with other firm(s)/employer(s)	8
Degree(s) / Years / Specialization			08/01-05/05 / Bachelor of Science Civil Engineering	
Active registration number / state / expiration date			34765 / LA / 09-30-2027	
Year registered	2004	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Bridge Design, Movable Bridge Design, Bridge Ratings, Project Management / MPR #7 (Combo with Ried Romero, PE)	
Mr. Peltier joined Huval & Associates in 2013 with 8 years of experience in civil and bridge/structural engineering. Previously employed with LADOTD Bridge Design Section, he was involved with the design, live load rating, plan development, and construction support of more than 20 bridge replacement projects. These include but are not limited to: AASHTO p.p.c. girders, quadbeams, cast-in-place and precast slab spans, steel girders, moveable swing spans, concrete box culverts, pile bents and column bents supported by drilled shafts and/or pile footings. He also served as the Engineer of Record (EOR) for the LADOTD concrete barrier rail and the detour bridge special details.				
09/20-Present	I-10: LA 415 To Essen Lane on I-10 and I-12 CMAR, S.P. H.004100 – Lead bridge engineer and Structures Team lead/manager for this \$1 billion project to widen I-10 in the heavily congested section through Baton Rouge. This very complex project will replace existing bridges in the urban area within an extremely constrained right of way while maintaining the existing traffic flow on I-10 through the construction zone. Roles include bridge design, plan development, load rating, structure rehabilitation, alternative bridge concepts development, construction sequencing, contractor style cost estimates, managing the bridge and structural design and plan production process, leading bi-weekly structures task force meetings, and implementing the bridge design QC/QA process.			
04/18 -Present	I-49 South at Verot School Road, S.P. H.011235 - Bridge design manager and lead bridge design and load rating engineer to provide preliminary and final engineering and related services to construct 2.4 miles of mainline freeway and an interchange at the intersection of I-49 South/US 90 and Verot School Road. The project consists of an above grade bridge structure on Verot School Road that traverses over the I-49 South/US 90 mainline roadway over and parallel to the BNSF RR. The project also includes one-way frontage roads on both sides of the main line roadway, a two-way collector service road east of the main line roadway, and a new alignment of Verot School Road from the interchange to an existing bridge structure approximately 600' west of its intersection with LA 182 (Pinhook Road).			
09/17-Present	Kansas Lane-Garrett Road Connector and I-20 Improvements, S.P. No. H.007300 - Bridge design manager and lead bridge design and load rating engineer for a new Garrett Road bridge over I-20 and a new Garrett Road to Kansas Lane connector structures which spans over the KCS RR right-of-way. The Garrett Road structure consists of an LG-36 p.p.c. girder superstructure supported by column bents and pile footings. The Garrett Road to Kansas Lane connector structure consists of LG-36 p.p.c. girder approach spans with a 3-span continuous plate girder superstructure over the KCS railroad right-of-way and is supported by column bents and pile footings.			
09/19-Present	Airport Connector Road and Bridge, S.P. No. H.011915 - Served as the lead bridge design and load rating EOR for a new lift span movable bridge over Bayou Lafourche in Galliano, LA. The bridge required a minimum horizontal and vertical clearance of			

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	70ft and 73ft and a clear roadway width of 42ft with 5ft sidewalks on each side. The design included steel lifting girders, floor beams and stringers, concrete piers and machinery decks. The design was performed in accordance with the AASHTO LRFD Movable Bridge Design Specifications the LADOTD BDEM.
03/19-04/2023	I-220/I-20 Interchange IMP & Barksdale Access Design-Build Project, S.P. No. H.003370 - Bridge design manager and lead bridge design and load rating engineer for the I-220 bridges over I-20 and Barksdale Access Road bridges over the KCS Railroad and also responsible for implementing the QC/QA plan for the bridge design and plan development process. The I-220 structures over I-20 consist of twin bridges utilizing LG-54 p.p.c. girder spans supported by concrete column bents and drilled shafts. The Barksdale Access Road structures consist of twin bridges utilizing LG-54 p.p.c. girder approach spans supported by concrete pile bents and a main span over the KCS Railroad consisting of 170'-0", LG-78 p.p.c. girders supported by concrete column bents and drilled shafts.
07/17-08/20	I-10: Highland Road to LA 73, Design Build Project, S.P. No. H.009250 - Served as the lead bridge and load rating engineer for the widening of the I-10 E.B. and W.B. slab span bridges over Manchac Bayou and provided Q.C. for the replacement of the I-10 E.B. and W.B. bridges over Highland Road with a new steel plate girder bridge with p.p.c girder approach spans. The existing I-10 mainline bridge at the Highland Road interchange needed to be reconstructed under the project to provide longer spans in addition to more lanes.
06/14-04/19	US 90 (I-49South), Albertson's Parkway to Ambassador Caffery, Design-Build Project, S.P. No. H.010620. Bridge design manager and lead bridge design for the new US 90 bridge over Albertson Parkway and provided Q.C. for the US 90 BNSF RR overpass bridge within the same footprint as the existing bridge while maintaining 4-lanes of US 90 traffic during construction. This presented unique design challenges and required a complex, three-phase, traffic control and construction sequencing plan to move traffic safely through the tight work zone. The bridges consisted of multi-continuous p.p.c. girders spans supported by concrete column bents and pile footings.
06/10-12/15	Bayou Teche Bridge at Oaklawn, S.P. No. H.002798. While employed at LADOTD, assisted in the design of the concrete pivot and rest piers for an unequal arm swing span bridge and approach concrete slab spans. At Huval, served as the EOR for the live load rating and independent technical review for the entire structure. Tasks included performing a live load rating and preparing the rating report and applicable influence lines and independent design check of all structural elements in accordance with the LADOTD BDEM and AASHTO LRFD Movable Bridge Design Specifications.
06/17-2/19	Theriot Bascule Bridge Evaluation and Rehabilitation for Terrebonne Parish Consolidated Gov't – Served as the lead bridge and load rating EOR for the evaluation and rehabilitation for a bascule bridge in southern Terrebonne Parish. The bridge consisted of timber approach spans with a 30'-0" steel, bascule main span. The project included replacing the bascule span and associated mechanical and electrical equipment and rehabilitation of the approach spans. The design of the bascule span was in accordance with the AASHTO LRFD Movable Bridge Design Specifications.
03/13-Present	Statewide Parish Gov't Live Load Ratings – EOR for over 200 live load ratings for various Parishes throughout the State of Louisiana. These include but are not limited to cast-in-place and precast slab spans, p.p.c. girders, movable bascule spans, movable swing spans, movable lift spans, steel girders, timber, concrete box culverts, steel pony trusses and precast channel beams.

Firm employed by Huval and Associates, Inc.				
Name	Reid Romero, P.E.		Years of experience with this firm/employer	16
Title	Civil Engineer		Years of experience with other firm(s)/employer(s)	0
Degree(s) / Years / Specialization			08/04-12/08 Bachelor of Science, Civil Engineering	
Active registration number / state / expiration date			37772 / LA / 9-30-2027	
Year registered	2013	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Bridge Design, Movable Bridge Design, Ratings & Project Management / MPR#7 (Combo with Justin Peltier, PE)	
Mr. Romero came to HUVAL after graduating from the University of Louisiana at Lafayette in 2008. Since joining Huval & Associates, Inc., Mr. Romero has been involved in bridge and structural design, plan preparation, bridge inspections and construction support services. Mr. Romero completed several NHI training courses including Fundamentals of LRFR and Applications of LRFR for bridge superstructures course, and a Drilled Shaft LRFD design methods and construction procedures course. Mr. Romero is familiar with the LADOTD Bridge Design and Evaluation Manual, LADOTD LRFD Bridge Design Manual, 2002 AASHTO Bridge Specifications, as well as the current AASHTO LRFD Bridge Specifications.				
05/20 – 05/25	Retainer for Engineering Services for Bridge Preservation - Statewide, Contract No. 4400017262 - Lead Engineer of Retainer Contract. Responsible for coordination, project setup, QA/QC, and lead bridge design for the \$5M retainer.			
9/22 – Present	Retainer for Engineering Services for Bridge Preservation - Statewide, Contract No. 4400023923 - Lead Engineer of Retainer Contract. Responsible for coordination, project setup, QA/QC, and lead bridge design for the \$7M retainer.			
03/23-Present	Jimmie Davis Bridge (LA 511), S.P. No. H.001779 – Bridge Task Lead for the Design Build project to construct the new four lane bridge across the Red River in Bossier / Caddo Parish. The project includes the reconstruction of nearly two miles of LA 511 into a modern, four lane median divided highway. The initiative also includes the transformation of the existing Jimmie Davis Bridge into a Linear Park. The repurposed structure will be a vibrant public space, featuring new multi-use paths for pedestrians and cyclists. Lead Structural Engineer for the Bridge Rehabilitation plans required to convert the existing traffic bridge to a pedestrian bridge/Linear Park. Rehabilitation plans include concrete deck replacement, concrete substructure repairs, steel superstructure repairs, bearing rehabilitation, cleaning and painting of all structural metalwork, and ADA compliant steel bridge railing and joint rehabilitation.			
01/22-Present	I-10 Calcasieu River Bridge Public-Private Partnership, Calcasieu Parish S.P. H.003931 – Bridge Design Engineer for the PPG Drive overpass. As part of an approved ATC, the existing I-10 eastbound and westbound bridges over PPG Drive will be widened and rehabilitated instead of replaced, as the line and grade concept originally identified. The existing bridges consist of AASHTO prestressed concrete girder superstructures supported by column-bent foundations. The two spans over the railroad contain steel beams that are non-composite. The westbound structure will be widened to the outside and the eastbound structure will be widened to the inside. An off-ramp will also be constructed on the outside of the eastbound structure. The newly widened/constructed sections of the bridge will match the superstructure and substructure of the existing bridges.			

11/18 – Present	Old Mississippi River Railroad Bridge and Tunnel (Old U.S. 80) - Performed Complex Bridge Design for the Old U.S. 80 Bridge Over the Mississippi River including bridge safety and repair inspections, structure maintenance and repair plans for the existing combination highway and railway through truss and the approach deck girder bridge. Performed calculations for Heavy Haul/Overweight Load special crossings.
04/18 – 05/23	Retainer for Engineering Services for Bridge Preservation - Statewide, Contract No. 4400011225 - Lead Engineer of Retainer Contract. Responsible for coordination, project setup, QA/QC, and bridge rehab design for the \$4M retainer.
12/19-01/23	New Swing Span- Herman Dupuis RD. Pontoon BR. Replacement, St. Martin, LA, Bridge Recall 200896 – Lead structural engineer for the bridge design and plan development of a new swing span bridge over alligator bayou which replaced the Butte LaRose Pontoon bridge. Designed, detailed, and sealed final plans, specifications, calculations, load rating and cost estimates for all structural elements.
03/19-06/22	I-220/I-20 Interchange Imp & BAFB Access Design Build Project – S.P. No. H.003370 – Responsible for QA of the bridge plans and load rating for the LA 1267 bridges over I-20 and the LA 1267 bridges over the KCS Railroad. The LA 1267 structures over I-20 consist of twin bridges utilizing LG-54 p.p.c. girder spans supported by concrete column bents and drilled shafts. The LA 1267 structures over KCS Railroad consist of twin bridges utilizing LG-54 p.p.c. girder approach spans supported by concrete pile bents and a main span over the KCS Railroad consisting of 170'-0", LG-78 p.p.c. girders supported by concrete column bents and drilled shafts. Some unique challenges that the project has presented is designing applicable LA 1267 bridges over I-20 column bents for vehicular collision and completely spanning the KCS own right-of-way utilizing concrete p.p.c. girders.
07/17-08/20	I-10: Highland Road to LA 73, Design Build Project, East Baton Rouge & Ascension Parish, S.P. No. H.009250 - Led the design, plan preparation, and load rating for the repair of the prestressed girder bridge on LA 928. Performed QA/QC of the LRFD design calculations and load rating for the steel girder bridge at Highland road and the slab span widening at Bayou Manchac. The existing I-10 mainline bridge at the Highland Road interchange needed to be reconstructed under the project to provide longer spans in addition to more lanes. An innovative sequence of construction scheme and bridge design enabled construction of this bridge while maintaining 74,000 ADT traffic. Huval's cost-effective designs enabled its design-build team to be the only competitor to fit within the Owner's budget of \$72 million.
11/17-07/18	Surrey St. Bridge Repairs, Lafayette Parish – Lead Engineer for the repair of the Surrey St. Bridge in Lafayette. Project consisted of bearing repair and replacement, concrete riser construction, deck overlay, joint repairs, painting of steel girders with full enclosure, and miscellaneous work.
12/09-01/13	St. Ann Swing Span Bridge, S.P. 700-55-0107 & S.P. H.005029.5 – Assisted in plan preparation and performed designed calculations on this swing span bridge. Performed moment balance calculations, design of pedestrian walkway, counterweight design calculations, traffic barrier design calculations, light pole foundation design calculations, quantity calculations, design checks of stringer and main girders, and plan review and markups. Provided construction services on an as-needed basis.
12/11-01/13	Seabrook, Port of New Orleans Req. No. 077704 – Performed span balancing calculations of the bascule bridge throughout the different construction phases. Designed temporary support brackets to elevate existing ballast beams to allow for painting of the bottom chord. Provided additional construction services on an as-needed basis.

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Firm employed by Huval and Associates, Inc.				
Name	Nicholas Helminger, P.E.		Years of experience with this firm/employer	7
Title	Civil Engineer		Years of experience with other firm(s)/employer(s)	5
Degree(s) / Years / Specialization			08/2009-05/2013: Bachelor of Science Civil Engineering 08/2013-12/2014: Master of Science in Civil Engineering	
Active registration number / state / expiration date			41937 / LA / 03-31-2026	
Year registered	2017	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Lead Roadway Design, Project Management and Construction Support / MPR #8	
Mr. Helminger joined Huval & Associates in 2018 with 5 years of experience at Professional Engineering & Surveying Co., Inc. (PENSCO). His work at PENSCO encompassed various aspects of engineering, including roadway design, drainage design, bridge design, plan and specification preparation, construction layout, and construction administration. Since joining HUVAL, Mr. Helminger has been involved in roadway design, bridge design, project management, and plan preparation for several Louisiana Department of Transportation and Development (LADOTD) projects. His training includes certifications as an American Traffic Safety Services Association (ATSSA) Traffic Control Technician and Traffic Control Supervisor.				
04/21-Present		I-10: LA 415 to Essen Lane on I-10 and I-12 - S.P. H.004100 – Mr. Helminger is serving as a lead road design engineer on this CMAR project which includes the reconstruction and widening of I-10 from the Mississippi River Bridge to the I-10/I-12 split. Design duties include horizontal and vertical geometrics for I-10 mainline and entrance/exit ramps and sequence of construction and temporary traffic control along I-10 mainline. As part of the CMAR process, Mr. Helminger is involved in design workshops, bi-weekly task force meetings, and quantity and cost reconciliation meetings.		
03/23-Present		Jimmie Davis Bridge (LA 511) (HBI) Design Build Project - S.P. H.001779 – Mr. Helminger is serving as the lead road design engineer on this project to design and construct a new 4 lane bridge across the Red River in Caddo/Bossier Parish. The project includes reconstruction of nearly 2 miles of LA 511 into a 4-lane median divided highway, construction of full access interchange connections with LA 511 at both Arthur Ray Teague Parkway and Clyde Fant Memorial Parkway, and improvements to other local roadways. Project includes conversion of Existing Jimmie Davis Bridge into a Linear Park, constructing new multi-use paths, and elevated ramps to connect the paths to the Linear Park.		
08/24-Present		I-10 Calcasieu River Bridge Public-Private Partnership Project - S.P. H.003931 – Mr. Helminger is performing QA/QC on the roadway design for the I-10 Calcasieu River Bridge Replacement Project (P3). Task include horizontal and vertical geometric checks, drainage checks, and overall plan quality assurance. Review includes coordination with multiple bridge structures and other miscellaneous design disciplines such as lighting and signing to ensure a cohesive end product. Mr. Helminger is also designing the maintenance of traffic scheme for this project. Tasks include generating temporary traffic control plans consisting of temporary pavement markings, signs, concrete barrier placements, and analyzation of critical sections for constructability.		
10/18-Present		I-49 South @ Verot School Road Interchange - S.P. H.011235 – Serving as assistant project manager and road design engineer. Prepared and reviewed roadway plans for LADOTD submittal. Designed vertical profiles and performed QC checks on horizontal geometry. Assisted subconsultants in the design of subsurface drainage systems and developed a plan for alternative outfalls. Performed bridge design calculations including prestress girder design checks to determine span lengths, preliminary pile loads for column bents and pile bents, and vertical clearance calculations. Computed quantities and developed construction costs estimates. Coordination of design and plan consistency between several firms.		

07/21-05/23	LA 94: Vermilion River Bridge Replacement - S.P. H.014560 – Mr. Helminger served as the lead road design engineer for the replacement of the LA 94 Bridge over the Vermilion River in Lafayette/St. Martin Parish. Mr. Helminger designed the horizontal and vertical geometry of LA 94 and the diversion roadway and prepared all roadway plan sheets.
06/20-05/21	Comite River Diversion Bridges at LA 67, LA 19, and LA 19 Railroad Bridge - S.P. H.001352 and H.002273 – Mr. Helminger served as the lead road design engineer and assistant project manager on this CMAR project which includes the construction of new bridges over the Comite River Diversion Channel (CRDC). This project had two sites: LA 67 and LA 19. LA 67 is a two-way two-lane roadway while LA 19 is a 4-lane divided roadway. On site diversion roadways were used on both sites. Mr. Helminger designed the horizontal and vertical geometry for both roadways and diversion roadways, typical sections, sequence of construction, drainage, guardrail, pavement markings, signing, and cross sections. He also created typical sections, plan profiles, and cross sections of the CRDC that will be excavated under this project. The LA 19 site included a railroad crossing over the CRDC. Mr. Helminger designed the vertical and horizontal alignment for the permanent rail over the channel and the shoofly railroad used to maintain rail traffic during construction. Mr. Helminger also computed quantities, developed cost estimates, and participated in all design workshops, plan reviews, and quantity and cost reconciliation meetings as part of the CMAR process.
01/20-08/21	Belle Chasse Bridge & Tunnel Replacement Project - S.P. H.004791 – Mr. Helminger performed the roadway plan review on the Belle Chasse P3 project. The project review consists of overall geometric layout (horizontal and vertical), overall design compatibility between various disciplines of engineering, and plan set review per the project QA/QC process. Additionally, Mr. Helminger reviewed the temporary traffic control plans and signing/pavement marking plans.
11/19-06/20	I-10 and I-12 College Dr. Flyover Ramp Design-Build Project RFP Phase 30% Design - S.P. H.013897 – Prepared plans and proposal documents for the RFP phase of the project. Analyzed numerous geometric layouts and cross sections along the I-10/I-12 corridor to develop a flyover concept which fit within the existing right-of-way while complying with project requirements. Designed typical sections, sequence of construction, guardrail, concrete barriers, MSE walls, sound barrier layout, drainage, and computed road quantities. Performed the role of Assistant Design Manager by conducting weekly meetings and coordinating the design team and contractor to develop plans, quantities, and proposal documents.
01/19-05/19	I-10 Loyola Design-Build Project RFP Phase 30% Design - S.P. H.011670 – Assisted in the preparation of plans and proposal documents for the RFP phase of the project. Assisted in development of alternative technical concepts, created roadway typical sections, assisted in roadway geometric design, suggested sequence of construction, and roadway quantities. Assisted in the coordination and organization of all project data with the design team.
10/18-12/22	I-220/I-20 Interchange Imp. & BAFB Access Design-Build Project - S.P. H.003370 – Mr. Helminger served as a road design engineer for this design build project. Some of the task performed include creating typical sections, design/layout of guardrail, pier protection and roadway barrier, calculated roadway quantities, performed preliminary bridge design calculations and assisted with coordination of the design team.
05/13-07/18	I-49 South: Ambassador Caffery & U.S. 90 Interchange - S.P. H.002868 – Prepared roadway plan profiles, typical sections, barrier details, pavement marking details, embankment widening and guardrail details, suggested sequence of construction, MSE wall layout and details, quantity tables, and all bridge plans for the 2 mile stretch of urban freeway in Lafayette Parish. Assisted in drainage design and vertical alignment of roadways. Performed all bridge design calculations including deck design, girder design, column bent and pile bent design, footings, columns, pile loads. Calculated all riser and bent elevations. Assisted in the coordination and organization of subconsultants.

Firm employed by Huval and Associates, Inc.				
Name	Robert Schmidt, P.E., PTOE		Years of experience with this firm/employer	9
Title	Engineering Manager		Years of experience with other firm(s)/employer(s)	35
Degree(s) / Years / Specialization			B.S., Civil Engineering – LSU, 1982	
Active registration number / state / expiration date			22837 / LA / 09-30-2027	
Year registered	1987	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Roadway and Traffic Design Engineer / Project Management	
Mr. Schmidt is a Senior Manager at Huval & Associates. Prior to this role, he served as Practice Leader for international engineering firms in Louisiana and the Gulf Coast area. With 42 years of broad transportation experience in New Orleans, Baton Rouge, and across the nation, he has focused on some of the most challenging projects in the industry. Mr. Schmidt has led all aspects of transportation, including program management and administration, planning, traffic engineering, design, construction, and operations. He has managed numerous alternative delivery projects, such as Design-Build and Construction Manager at Risk (CMAR). Throughout his career, he has dedicated himself to providing credible, high-quality, innovative solutions to Louisiana's transportation system and other systems across the country.				
01/20 – Present		Louisiana DOTD, I-10 CMAR Project (Reconstruction and Widening) LA 415 to Essen Lane on I-10 and I-12, WBR and EBR Parishes, Louisiana – Mr. Schmidt is HUVAL’s project manager and principal in responsible charge of design on its \$2.0 billion project to widen I-10 in the heavily congested section through Baton Rouge. This very complex project will replace existing bridges in the urban area within an extremely constrained right of way while maintaining the existing 3 lanes of traffic flow on I-10 through the construction zone. Schmidt is responsible for all aspects of the design team including preparation of plans for 7 construction contracts to cover Segment 1 of the corridor. Services include extensive traffic studies to provide for Maintenance of Traffic through the construction zone during construction as well as numerous context sensitive design and aesthetic treatments through the corridor.		
02/22 – Present		Louisiana DOTD, I-10 Calcasieu P3 Project, Lake Charles, Louisiana – Mr. Schmidt is HUVAL’s Project Director and Roadway Design Key Personnel for the preliminary design phase of the \$2.3 billion I-10 P3 reconstruction project in urban Lake Charles. The project is being delivered by alternative delivery including toll financing. Services include traffic engineering, bridge design, road design, and related activities. Alternative technical concepts have been developed by HUVAL saving approximately \$100 million in project cost, helping to make the project financially solvent.		
03/2000 – 09/2010 04/2021 – 04/2025		Louisiana DOTD, I-10 Calcasieu River Bridge and Approaches EIS and P3, Lake Charles, Louisiana – Mr. Schmidt was the project manager and project principal for this 9-mile \$500 million urban freeway improvements project in the NEPA planning phase and the P3 delivery phase (in progress).. In these roles he has had ultimate responsibility for all aspects of the project, including NEPA planning, design, traffic control, schedule compliance, and QA/QC		

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	plans/adherence. This urban freeway project is extremely comprehensive and complex, consisting of the reconstruction of an existing I-10 high level crossing of the Calcasieu River and improvements to nine miles of urban freeway approaches. An interchange at the base of the bridge significantly complicates the design, construction staging, and maintenance of traffic options. Mr. Schmidt has worked with DOTD leaders to solve these issues, which has had the added benefit of managing funding requirements by staged implementation over time. The project includes an EIS/ROD, preliminary geometric and bridge design, special engineering studies (including traffic impacts through the construction zone and value engineering regarding hazardous waste issues), and litigation support regarding hazardous waste encroachments. The project is now in the P# project delivery phase.
01/18-Present	Louisiana DOTD, New Belle Chasse Bridge P3 Project - S.P. H.004791 – Mr. Schmidt is the Design Manager for the new \$150 million Belle Chasse bridge and urban roadway approaches, including a new access management interchange between LA 23 and Engineers Road. In this role he is responsible for all design work performed on the project including road, bridge, geotechnical, traffic engineering, and other disciplines. The project is currently 50% through the design phase.
01/20-Present	Louisiana DOTD, Comite Diversion Canal Highway and Railroad Bridges CMAR, Caddo Parish, Louisiana - S.P. H. 001352.5 and H. 002273.5 – Mr. Schmidt is serving as the CMAR liaison for the CMAR Preconstruction Phase of this \$50 million project to build new highway bridges on LA 19 and LA 67 over the new Comite River Diversion Canal. The project also includes design of a new railroad bridge over the new canal parallel to LA 19. Detour roadways, railroad shooflys, utility coordination are also a part of the project.
01/22 – Present	City-Parish of Baton Rouge/E. Baton Rouge, US 61 Airline Highway North, Baton Rouge, Louisiana – Mr. Schmidt is HUVAL's Project Manager leading the Traffic Engineering, NEPA studies, and Roadway Design for the 5.8 miles section of Airline Highway in East Baton Rouge Parish. The project includes upgrading the road from 4 to 6 lanes including access management and superstreet design features.
01/12 – 03/15	Louisiana DOTD, Jimmie Davis Bridge EA – Mr. Schmidt is Project Principal for an EA to replace the 80 year old steel truss bridge over the Red River near Shreveport, LA. The project includes approach roadways and interchanges. Alternatives considered include a new four lane structure, rehabilitating the existing truss bridge and providing a new two lane structure, and removing the existing truss superstructure from the existing piers and providing a new plate girder structure using existing piers. Cost management to meet funding availability is a big issue on the project, as well as coordination with the Coast Guard regarding the navigable waterway.

Firm employed by Huval and Associates, Inc.				
Name	Glenn McCall, P.E.		Years of experience with this firm/employer	6
Title	Civil Engineer		Years of experience with other firm(s)/employer(s)	22
Degree(s) / Years / Specialization		Bachelor of Science Civil Engineering / Structural, 05/97 Bachelor of Science Agricultural Engineering, 05/96		
Active registration number / state / expiration date		29639 / LA / 09/30/2027		
Year registered	2001	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Roadway Design / Project Management		
Mr. McCall has over 27 years of experience in a wide variety of projects. His depth of knowledge is primarily in the geometric and drainage areas of transportation projects. Secondly, Mr. McCall has significant experience in specialty structural engineering projects over a wide variety of industries. Mr. McCall began his interstate design experience working on projects for TXDOT with a national firm in their bridge design section. Upon returning to Louisiana, Mr. McCall worked on alternative delivery projects: P3, CMAR and Design-Build. In addition to alternative delivery projects Mr. McCall also managed multiple Design Bid Build, Retainer Contracts, Stage 0s, Off-System Bridge and Urban System projects for the LA DOTD. In addition to the LA DOTD work, he has design, managed, or served as the quality control manager for several major road projects for the Private Clients with Permit Projects through the Louisiana Department of Transportation and Development, the Lafayette Consolidated Government, and the Calcasieu Parish Police Jury. In response to the public demand for accelerated completion of infrastructure projects, LA DOTD has implemented alternative delivery methods. Mr. McCall has adopted a vision which supports the LA DOTD project delivery goals. During the past ten plus years his focus has been in alternative delivery projects for the LA DOTD. Mr. McCall's breadth of design experience during his career complements the duties required of the Roadway Design Engineer for the Roadway Design Retainer Contract. Mr. McCall's training includes ATSSA Traffic Control Technician as well as Traffic Control Supervisor.				
02/22–Present		I-10 Calcasieu River Bridge; Public Private Partnership, S.P. H.003931 – Mr. McCall is serving as the Drainage and Maintenance of Traffic Design lead this \$2.3B P3 project which will construct a new toll bridge over the Calcasieu River as well as provide a 6 lane Interstate Roadway for approximately 5.5 miles through the City of Lake Charles as well as construct an additional 14 bridges within the project corridor. As part of his duties Mr. McCall, provides technical guidance on the road design elements including two roundabouts, is coordinating the drainage design efforts of the entire corridor with the three other design joint venture member firms as serving as the EOR for the Sequencing of Construction and Maintenance of Traffic for all phases of construction for the entire corridor.		
06/19–Present		Belle Chasse Bridge & Tunnel Replacement Project, S.P. H.004791 – Mr. McCall is serving as a senior design engineer on this P3 project which will construct a new toll bridge over the Gulf Intercoastal Waterway (GIWW). Mr. McCall has assisted with the completion of alternate technical concept No. 1 which will improves the efficiency of all intersections within the construction limits. In addition, Mr. McCall has worked as a senior engineer reviewing geometric design and layout, coordination of right of way and utility work and quality checks on hydraulic analysis and subsurface drainage. In addition to the design duties, Mr. McCall has also assisted with the project management activities including the management of sub-consultants, invoicing, and progress reports, as well as design quality checks and adherence to the requirements of the Form DR Process.		

06/21-Present	I-10: LA 415 to Essen Lane on I-10 and I-12 CMAR, S.P. H004100 - As a Senior Roadway Engineer on the project, Mr. McCall provided project oversight, quality control checks and technical direction to the design staff for the roadway and drainage design for the section of the project from City Park Lakes to Acadian Throughway. Mr. McCall was also responsible for the design of a new utility duct bank within the congested urban corridor which provided dedicated conduit banks for the relocation of LA DOTD and ATT fiber optic infrastructure. This relocation required close coordination with the road and bridge design solutions along the corridor to ensure future conflicts were mitigated.
06/16-Present	I-49 South @ Verot School Road, S.P. H.011235.5 – Mr. McCall serves as a senior engineer for the road and drainage design portion of this project encompassing the Verot School Rd. improvements as well as the parallel service road. As part of his work, Mr. McCall has assisted with the development of the temporary traffic control plans. In addition to the roadway aspects, Mr. McCall also provided the customized drainage design for the scuppers on the bridge structures. Mr. McCall also created a SWMM model of the existing and proposed conditions which will be used to meet the requirements of the railroad owner adjacent to the project. This model is a hydrodynamic model with evaluates water surface elevations at time step intervals for the 100-year storm event while also dynamically modeling the water surface elevation of the outfall channel.
04/23-Present	I-20 over UPRR, S.P. H.012027 – Mr. McCall serves as a senior engineer for the road design portion of this project which is providing a design solution to replace the existing bridge crossing the UPRR Mainline. As part of his work, Mr. McCall has assisted with the development of alternative analysis and decision matrix for the optimal solution. Mr. McCall also assisted in the development of the suggested sequence of construction for each alternative and quantity estimates.
09/23-Present	LA 6: Youngs Bayou Bridges, S.P. H.013821 – Mr. McCall is serving as a senior design engineer on this bridge retainer project which addresses erosion issues at the abutments of the bridges as well as erosion beneath the approach slab. In this role, Mr. McCall supervised and provided guidance to junior engineers providing the roadway and drainage solutions for this project in addition to coordination with the Geotechnical Subconsultant. The solution required the installation of soil nail walls, removal and reconstruction of embankment, installation of new drainage structures and comprehensive TCP plans to allow phased construction of the improvements.
06/19-12/22	I-220/I-20 Interchange IMP & BAFB Access Design-Build Project, S.P. H.003370 – Mr. McCall is serving as a senior design engineer on this design build project which will provide direct access to Barksdale Air Force Base. Most recently, Mr. McCall has assisted with the sequence of construction plans and geometric layout for the proposed improvements to the I-220 to I-20 SB/WB ramp. This modification to the original intent seeks to provide phased construction of this ramp while maintaining full access to I-20. Mr. McCall is also assisting with project management duties and financial controls for Huval and its sub-consultants. In addition, Mr. McCall has completed the design of the box culvert location, coordinated with the electrical sub-consultant on the lighting inventory report and layout as well as assist the Project Manager with various aspects of the project management duties required for this project.
05/13-05/19	US 90(I-49 South) Albertson's Parkway to Ambassador Caffery Design-Build S.P. H.010620 – Under the Design-Build Contractor, Mr. McCall served as the Principal in Charge of the Design Team for this project. In this role, Mr. McCall provided coordination between the Contractor and all members of the design team through coordination with the Project Manager. Mr. McCall also provided lead technical experience to the design team during initial construction document production and through completion of construction of the project.

Firm employed by Huval and Associates, Inc.				
Name	Michelle Helminger, P.E.		Years of experience with this firm/employer	10
Title	Civil Engineer		Years of experience with other firm(s)/employer(s)	0
Degree(s) / Years / Specialization		08/2010-05/2014, Bachelor of Science Civil Engineering		
Active registration number / state / expiration date		43123 / LA / 03-31-2027		
Year registered	2018	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Roadway Design		
Mrs. Helminger joined Huval & Associates following her graduation from the University of Louisiana at Lafayette in 2014. During her time with HUVAL, she has been involved in roadway geometric design, traffic control and maintenance of traffic (MOT) design, structural design, plan preparation, and construction support services. Mrs. Helminger has also performed a variety of services for Louisiana Department of Transportation and Development (LADOTD) bridge rehabilitation projects, including the S.P. 700-99-0559 Retainer Contract for the Bridge Preventive Maintenance Program (BRPM), the S.P. 4400002537 Retainer Contract for Engineering Services for Bridge Preservation, and several other Retainer Contracts. In addition to typical LADOTD Design-Bid-Build projects, she has participated in many of LADOTD’s alternative delivery projects.				
08/24 - Present	I-10 Calcasieu River Bridge Public-Private Partnership Project, S.P. H.003931 – Mrs. Helminger is fulfilling the role of assistant lead road engineer on this project. This P3 project rebuilds over 6 miles of interstate pavement and includes replacement of the I-10 bridge over the Calcasieu River, an elevated urban interchange at Sampson Street, and replacement and widening of other bridge structures within the project corridor. Mrs. Helminger coordinates road design with all other design disciplines ensuring a cohesive end product. The project includes railroad crossings and coordination, right-of-way acquisition, utility relocation, lighting design, and a tolling system.			
03/23 - Present	Jimmie Davis Bridge (LA 511) (HBI) Design Build Project - S.P. H.001779 – Mrs. Helminger is serving as roadway QA/QC on this project to design and construct a new 4 lane bridge across the Red River in Caddo/Bossier Parish. The project includes reconstruction of nearly 2 miles of LA 511 into a 4-lane median divided highway, construction of full access interchange connections with LA 511 at both Arthur Ray Teague Parkway and Clyde Fant Memorial Parkway, and improvements to other local roadways.			
09/22 - Present	I-20: Union Pacific RR Overpass, S.P. H.012027 – Mrs. Helminger is serving as the lead road designer on this project which replaces the I-20 bridges over the Union Pacific Railroad near Shreveport, LA. This project requires all existing lanes of traffic to remain open on the interstate during construction which will result in phased bridge construction and the design of temporary interstate crossovers. Tasks include geometric layout/alignment study to determine best final design solution, drainage design, railroad coordination, and coordination with bridge designer on minimizing vertical grade increase.			
06/19 - Present	Belle Chasse Bridge & Tunnel Replacement Project, S.P. H.004791 – Mrs. Helminger is serving as a design engineer on this P3 project which will construct a new toll bridge over the Gulf Intercoastal Waterway (GIWW). Mrs. Helminger provided design on this project from the initial bid phase to present. Mrs. Helminger served as the primary roadway engineer and the primary point of contact for subconsultants including coordination of lighting, drainage, traffic signals, and MSE walls. Mrs. Helminger developed the overall geometric layout which dictated the available MOT options required to maintain two-lanes of traffic in each direction for the duration of construction. Detailed traffic control plans were developed			

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	by Mrs. Helminger to support the construction phasing. Coordination efforts also include utility relocations & ROW acquisition services.
06/16 - Present	I-49 South-Verot School Road Interchange, S.P. H.011235 - Assisted in roadway geometric design including traffic control analysis and plan preparation while also assisting with bridge design and construction phasing. Project management tasks included coordination with subconsultants, LADOTD meetings to present design options, and coordination with LADOTD on response to comments received on plan submittals. Mrs. Helminger has assisted with the study phase of the project, Preliminary Plans and will continue to provide design support through the Final Plans phase of this project.
10/21 - 04/24	LA 454: Wiggins Bayou Bridge, S.P. H.012545 – Mrs. Helminger provided roadway design and channel regrading plans for the Wiggins Bayou Bridge replacement project. This project included a channel realignment study to best determine the location and geometry of the channel to mitigate past erosion concerns. Roadway design and open channel drainage design was performed to raise the grade of the existing roadway to meet the proposed bridge structure. Channel grading plans were necessary due to unique sheet pile walls installed in front of each end bent as an erosion mitigation effort.
01/15 - 07/18	I-49 South-US 90 Albertson Pkwy to Ambassador Design Build - S.P. H.010620 – Prepared MSE wall layout, site grading, shop drawing reviews and construction services pertaining to demolition.
10/16 - 12/17	LA 443: Tangipahoa River Bridge Replacement, S.P. H.012728 – Mrs. Helminger supported the roadway & drainage design efforts for this bridge replacement project. Design tasks included roadway plans, channel grading plans, and detour layout. This was an emergency replacement, due to the flood of 2016, and 100% final plans were completed in 8 weeks.
11/15 - 05/16	Replacement of Lemon Road Bridge over Redwood Creek, Baton Rouge Parish – Performed geometric design to accommodate new bridge structure based upon minimum low chord requirements. Created typical roadway sections, performed guardrail design, and created cross sections. Created channel grading layout and created cross sections for the channel. Assisted in roadway plan preparation.
02/15 - 12/16	US 90 Pearl River Bridges Environmental Assessment - S.P. H.000284.2 – Performed tasks pertaining to bridge design in order to perform Stage 1 Environmental related services for the two moveable bridges included in the project. Analyzed multiple vertical alignments for various bridge types as well as performed preliminary cost estimates. Created various meeting exhibits for public meetings. Special consideration was required due to the historical nature of the structures.
04/16 - 11/17	District 05 Bridge Repairs – Bearing Rehab., Deck Joint and Concrete Spall Repairs, & Cleaning & Painting Steel, S.P. H.011766.5 Mrs. Helminger assisted with rehabilitation plans produced. These consisted of bridge deck joint repairs, concrete spall repairs, bridge deck overlays, bearing rehabilitation, cleaning & painting steel girders, and all associated traffic control plans yielding a construction cost of \$11M. The bearing rehabilitation consisted of replacing over 700 existing steel fixed/expansion bearing assemblies with a retrofitted bevel sole plate and reinforced elastomeric bearing pad.

Firm employed by Huval and Associates, Inc.				
Name	Andrew Juneau, P.E.		Years of experience with this firm/employer	10
Title	Civil Engineer		Years of experience with other firm(s)/employer(s)	0
Degree(s) / Years / Specialization		08/07-05/11 B.S., Civil Engineering 01/12-12/13 M.S., Civil Engineering		
Active registration number / state / expiration date		41397 / LA / 09-30-2027 129651 / TX / 12-31-2025		
Year registered	2017	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Civil Engineer / Certified Bridge Inspector / MPR #9		
Mr. Juneau is a professional engineer at Huval and Associates. He has spent much of his time performing bridge inspections. Between 2013 and 2024 he assisted in the inspection of hundreds of bridges throughout Louisiana for LADOTD's bridge preventative maintenance program. Since then, he has also assisted in multiple other bridge inspections and has completed the NHI course for FHWA-NHI Safety Inspection of In-Service Bridges. Within the past ten years he has become heavily involved in the realm of bridge construction engineering design, particularly related to geotechnical engineering, while continuing occasional bridge inspections in Louisiana and surrounding states.				
01/17 - Present	St. Martin Parish Bridge Inspection - From 2017 to present, Mr. Juneau has been involved in the Inspection and Rating of Bridges for the Parish of St. Martin. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included one Pontoon Bridge, one Swing Span Bridge and numerous Timber and Precast Concrete Bridges.			
01/17 – Present	St. Landry Parish Bridge Inspection - From 2017 to present, Mr. Juneau has been involved in the Inspection and Rating of Bridges for the Parish of St. Landry. This work also included the design of Bridge Repair Projects, in particular the repair of Timber Piling on Precast Bridges. Bridges included several Steel Railcar, Timber and Precast Concrete Bridges, as well as precast and cast in place box culverts.			
01/22 – Present	LA1: Leeville to Golden Meadow (Phase 2A) Construction Services – Lafourche Parish, LA – Provided construction engineering services for the contractor, including crane trestle pile geotechnical design and analyses, testing of trestle piles to determine structural loads in piles and geotechnical capacity, wave equation analyses of production piles using GRLWEAP program, creating a vibration monitoring plan for production pile driving, analysis of the Phase 2C T-wall based on out of tolerance piles.			
06/21 – Present	Guadalupe Blanco River Authority Dam Repairs Construction Services – New Braunfels, TX – At Lake Dunlap Dam, McQueeney Dam, and Lake Placid Dam, provided temporary cofferdam designs for the excavation and dewatering of the construction area to rebuild the dams per the contract plans. Provided temporary crane bridge designs to resist axial loads from the cranes and lateral flow loads from flood events. Conducted occasional site visits to inspect the construction progress of the cofferdams and trestles.			
02/18 – Present	Sam Houston Tollway Ship Channel Bridge Construction Services – Channelview, TX - . Provided engineering design for two 171ft x 97ft cofferdams to construct the M3 and M4 main bridge piers. The M3 and M4 pier cofferdams were designed for a 23' and 27' deep excavations and required one and two levels of walers and struts, respectively. Designed a			

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	tie-rod anchor system to allow for backfilling inside the cofferdams to construct the 96in. diameter drilled shafts. Performed slope stability analyses for the cofferdam critical phases.
02/24 – Present	Vicksburg Railroad Bridge over Mississippi River – Vicksburg, MS – Provided inspections of the bridge after barge impacts at the piers to inspect potential damage. Provided inspections of the structural steel truss members to determine section loss due to corrosion.
09/19 – 08/20	SR 64 Over Escatawpa River Bridge Girder Repair – Jackson County, MS – Performed limited in-depth bridge inspection of the structural steel superstructure spans at all the diaphragm locations in accordance with NBIS inspection procedures. Inspections were to locate and document fatigue cracks and indicate required repair type. Generated and submitted report of findings and recommended repairs.
02/14 – 12/19	US 90 Design Build Construction Services – Lafayette, LA - Provided cantilever & anchored sheet pile design for 8 footings along with railroad, roadway, and other surcharge analyses for loadings adjacent to cofferdam. Mr. Juneau also provided soil grading and soil boring log analysis.
12/16 – 08/19	White River Bridge Construction Services – Newport, Arkansas - Worked on Value Engineering proposal to reduce main pier seal slab thickness from 20ft to 15ft. Designed and produced plans for the two main river pier cofferdams. The designs included four levels of bracing (walers and struts), sheet pile design, phasing of cofferdam construction from installation to removal, and base stability analysis. The design allowed for an 80ft deep excavation using 100ft long sheet piles. Designed and produced plans for a single-span crane trestle used adjacent to the cofferdam. Assisted in mitigating critical slope failure issues encountered prior to Huval's involvement in the project.
03/13 – 07/19	LADOTD Bridge Preventative Maintenance Program – Multiple District throughout Louisiana – Performed limited in-depth bridge inspections of hundreds of bridges throughout Louisiana as part of the bridge preventative maintenance program. Inspection items included deck joints, concrete spalling, girder bearings, timber piles, etc.). Created inspection reports and bridge repair plans, detour plans, and temporary traffic control plans.
01/13 – 12/15	Tappan Zee Hudson River Crossing Westchester County New York, NY Thruway Authority - Provided design calculations and plans for various items used during bridge construction including pier seal slab design, seal slab lifting, seal slab lowering assembly, secondary slab design, formwork checks, crane ramps and trestles, and various pile templates.

Firm employed by Huval and Associates, Inc.				
Name	Ethan Delcambre		Years of experience with this firm/employer	3
Title	Bridge Inspector		Years of experience with other firm(s)/employer(s)	14
Degree(s) / Years / Specialization		Bachelor of Science / 08/2007 – 05/2011 / Business Administration		
Active registration number / state / expiration date		N/A		
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities		Certified Bridge Inspector		
Mr. Delcambre is a Certified Bridge Inspector with three years of experience at Huval & Associates. Throughout his time with the company, he has worked on a wide variety of inspection, rating, and repair projects across the state. Mr. Delcambre specializes in evaluating bridge conditions, conducting load ratings, and identifying critical repair needs to ensure compliance with state and federal standards.				
03/22-Present	Public and Private Bridge Load Ratings – Statewide – Conducted load rating inspections for various clients, including parishes, cities, oil field companies, and others, on a regular basis. Gained experience evaluating different types of bridges, such as timber, steel, concrete, movable, fixed, pontoons, and trusses, ensuring compliance with safety and performance standards.			
03/22-Present	LADOTD Bridge Ratings and Inspections – Performed load rating inspections on several On and Off-System bridges of various structure types. Performed structural analysis on structures exposed to super loads, accidents, and repairs. Created full inspection reports of all load ratings and permit requests.			
04/24 – Present	I-10 Calcasieu River Bridge; Public Private Partnership, S.P. H.003931 - Conducted bridge evaluations for the I-10 Calcasieu project in Lake Charles, conducting detailed inspections of approach bridges and overpasses to support planning and design for the widening of I-10. Provided essential assessments to inform the overall bridge project development.			
10/24 -11/24	St. Martin Parish - Boon Lasseigne Road; Emergency Bridge Repair Project – Performed the final inspection of the Boon Lassienne Road Bridge, which had been closed due to deterioration of key bridge elements. Ensured that the necessary repairs were completed quickly and correctly. Oversaw various stages of the construction process, overseeing the full replacement of all bridge piles and concrete panels. Ensured that all replaced items were in compliance with DOTD standards for this type of bridge.			
05/24 – On- Going	POLC Railroad Annual Culvert and Bridge Inspection -Conducted yearly evaluations of the Port of Lake Charles railroad infrastructure, ensuring the structural integrity of bridges, culverts, and tunnels supporting railroad tracks. The inspection focused on ensuring that all culverts and bridge crossings were structurally sound and could support the port's railroad operations and maintain a functioning railroad system.			

Firm employed by Huval and Associates, Inc.				
Name	David S. Huval Sr., P.E., P.L.S.		Years of experience with this firm/employer	33
Title	President		Years of experience with other firm(s)/employer(s)	29
Degree(s) / Years / Specialization		Post Graduate Work /Structural, 08/66-05/69 Bachelor of Science, 05/61 Civil Engineering / Structural		
Active registration number / state / expiration date		9931 / LA / 03/31/2027 2015 /LA / 03/31/2027		
Year registered	1965	Discipline	Civil Engineering and Land Surveying	
Contract role(s) / brief description of responsibilities		Senior Principal / Civil Engineer / Professional Land Surveyor		
David Huval, Sr., has designed, inspected, rated, and constructed bridges across Louisiana and the Southeastern United States for the past 57 years. His experience includes highway and railroad bridges, roadways, cofferdams, and caissons. He is also well-versed in Federal and State Government procedures and has extensive knowledge of the geographic area. Mr. Huval leads construction bid estimates for his sister company, C.E.C., Inc. He has designed and managed numerous large projects as a consultant, General Manager for a steel erection contractor, Bridge Design Engineer for the Louisiana Department of Transportation and Development (LADOTD), and Highway Engineer for the Federal Highway Administration (FHWA). Since 1989, Mr. Huval has served as President of Huval & Associates, Inc., where he has worked as a Project Engineer, Project Manager, Quality Assurance Officer, and continues to participate directly as a Design Engineer. He is also a licensed Professional Land Surveyor. Mr. Huval was the Lead Engineer for seven (7) separate Bridge Rehabilitation Retainer Contracts that HUVAL has held with the LADOTD over the past eighteen (18) years. Inspection, repair, rehabilitation, or replacement services were performed for several hundred fixed and movable bridge structures under these Retainer Contracts, including the I-10 Calcasieu River Bridge, the LA 70 Sunshine Bridge, the I-310 Mississippi River Bridge, the US 80 Louisville Street Bascule Bridge in Monroe, the Jackson Street Bridge over the Red River in Alexandria, the LA 511 Red River Bridge (Jimmie Davis Bridge), and dozens of bridge structures on the future I-49 North corridor.				
(1991-Present)		St. Martin Parish Bridge Inspection (1991 – Present) - From 1991 to present, Mr. Huval has been involved in the Inspection and Rating of Bridges for St. Martin Parish. This work also included the design of Bridge Repair Projects, in particular the retrofit of Timber Piling on Precast Bridges. Bridges included one Pontoon Bridge, one Swing Span Bridge and numerous Timber and Precast Concrete Bridges.		
(2018-2020)		GNOEC Safety Bay Improvement CMAR (Independent Cost Estimator) Assisted the Independent Cost Estimator (ICE) for the for the \$55 million Safety Bay Improvement CMAR Project, the first highway CMAR project in Louisiana. Under this contract, Mr. Huval assisted in the efforts of producing a detailed independent cost estimate for the contract items and review the CMAR Contractor's schedule and cost model throughout each phase of design under the CMAR pre-construction phase. Additionally, constructability reviews and design comments were performed collaboratively with the CMAR design engineer, contractor, and Program Manager.		

(2011 – 2015)	Retainer Contract for Bridge Preventive Maintenance Program (BRPM) – Statewide, Contract No. 440001543 - Principal and Lead Bridge Design Engineer for Retainer Contract. Responsible for Task Order conceptual design, oversight, construction support services and QA/QC. Retainer Contract currently consists of 7 Task Orders.
(2009 – 2015)	Retainer Contract for Bridge Preservation Services – Statewide, S.P. 700-99-0488- Principal and Lead Bridge Design Engineer for Retainer Contract. Responsible for Task Order conceptual design, oversight, construction support services and QA/QC. Retainer Contract currently consists of 19 Task Order with supplements.
(2008 – 2012)	Retainer Contract for Urgent Bridge Repair and Rehabilitation Services – Statewide, S.P. 700-99-0449 - Principal and Lead Bridge Design Engineer for Retainer Contract. Responsible for Task Order conceptual design, oversight, construction support and QA/QC.
(2007 – 2011)	Retainer Contract for Bridge Preservation Services – Statewide, S.P. 700-99-0431 - Principal and Lead Bridge Design Engineer for Retainer Contract. Responsible for Task Order conceptual design, oversight, construction support.
(2000-2009)	District 02, 03 and 07 Inspection and Rehabilitation, S.P. 700-99-0232 - Principal, Project Manager and Lead Design Engineer for Retainer Contract. Responsible for coordination, project setup, conceptual design, design details and calculations, traffic control, oversight, construction support and QA/QC.
(1994-1998)	District 02 Major Bridge Inspection (Jefferson and Orleans Parish), S.P. 700-30-0205 (1994 – 1997) - Inspected the bridges along other team members of Huval & Associates. Prepared final Inspection Report and wrote QA/QC Plan for the Project. Bridges include the US-11 Bridge on Lake Ponchartrain, I-10 Bridge on Lake Ponchartrain and LA-1 Bridge on Caminada Bay.
(2003 & 2015)	Mississippi River Bridge (Natchez) Provided the construction engineering for the repairs of the steel trusses on both the east and west bound trusses.
(1997 – 2005)	I-310 Mississippi River Bridge (Luling) - Design of Finger Joints replacing Modular Joints, Asphalt and Concrete Overlays and Design of Joint Replacements. Project also included Inspection of various items of the bridge.
(1979 – 1989)	<u>Lafayette Steel Erector, Inc.</u> During this period David S. Huval, Sr. provided construction engineering and project management on the erection of structural steel girder, truss spans, prestressed concrete girder spans, segmental post tension, concrete girder spans and moveable bridges, including swing spans, vertical lift bridges, and bascule spans.
(1965-1978)	<u>LADOTD – Bridge Design Engineer, 1965 - 1978</u> • Bridge Design, (1965 – 1978) - Participated in the development of numerous bridge standards on Prestressed Concrete Girders, Piles, Stay-in-Place Forms, Bridge Decks, Joints, Structural Steel Bridges, Movable Bridges, and Timber Bridges. Participated in the planning, design and construction of bridge structures throughout the State of Louisiana. • Bridge Maintenance, (1965 – 1970) - Coordinated with the Bridge Maintenance Engineer, C.J. Russell, on the development of Design and Details for bridge maintenance projects throughout the State of Louisiana.

Firm employed by Wiss, Janney, Elstner Associates, Inc. (WJE)				
Name	Steven L. Lauer		Years of relevant experience with this employer	14
Title	Supervisor-Eng		Years of relevant experience with other employer(s)	
Degree(s) / Years / Specialization			BS, 2009, Civil Engineering, Purdue University MS, 2010, Civil Engineering, Purdue University	
Active registration number / state / expiration date			In addition to LA, Mr. Lauer is a licensed Professional Engineer in 5 other states and is a licensed Structural Engineer in IL.	
Year registered	2025	Discipline	PE LA , License No. PE.0050059 / expires 9/30/2027	
			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, IN000551-2025-ATL-F-LRE(2026)	
Contract role(s) / brief description of responsibilities			Mr. Lauer will fulfill MPR4 and will lead bridge load ratings. He will lead the bridge inspections including use of technical rope access and assist with instrumentation and balancing.	
11/24–09/25	Chicago Skyway Bridge over the Calumet River, Chicago, IL: Project Engineer responsible for leading special inspections to document gusset plates and selected members with advanced section loss for multiple structures having a total length greater than one mile. Led the load rating of these bridge and viaduct structures, incorporating the measured section loss where necessary.			
09/24-09/25	US 60/62 over the Mississippi River, Cairo, IL: Routine inspection, fracture critical (NSTM) inspection, load rating, and bridge condition report preparation for development of end-of-life plan and possible removal of the complex mile-long steel truss and multi-beam bridge. Served as the Project Manager, Inspection Team Leader, and Load Rating Engineer.			
02/24–09/25 08/21–10/21	IA 9, Black Hawk Bridge, over the Mississippi River, Lansing, IA: Project Manager and inspection team leader for the 2021 NSTM, in-depth, element level, and pin UT inspection of the complex three-span through truss river crossing unit, a five-span deck truss unit, and single span multi-girder approach span. Required structure climbing techniques and included removal of fatigue cracks observed during the inspection with a final report detailing further recommendations. In 2024 and 2025, served as the Inspection Team Leader for Special, In-Depth, and Damage inspections following bridge movements caused by nearby construction and also performed load rating analysis of the distorted spans and reviewed the monitoring data.			
08/23-08/24	Blatnik Bridge – I-535 over the Saint Louis River, Duluth, MN: Project Manager for the focused load rating to review load ratings performed by others and improve the controlling rating factors at two panel points. Led discussions, investigation, and performed refined calculations developed by WJE to prevent closure of the bridge and improve the accuracy of the load ratings by others by indicating necessary corrections. Developed an Inspector’s Guide for the most concerning gusset plates for future inspections.			
03/23–07/23	Gordon Drive Viaduct Carrying IA 12, Sioux City, IA: Project Manager for the routine and element level inspections of the bridge and hands-on arms-length fracture critical inspection of the non-redundant steel Pier 18 cross girder and connections. Oversaw nondestructive ultrasonic testing of the 70 superstructure pins located near ten piers. Prepared an in-depth final report documenting the findings and providing recommendations.			
10/21–12/21	IN 46 over East Fork White River, Columbus, IN: Team Leader for the routine and fracture critical inspection of the cable stayed bridge with center steel pylon and post-tensioned deck that required traditional and rope-access techniques.			

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01/21-09/25	Washington Ave Bridge over the Mississippi River, Minneapolis, MN: Project Engineer responsible for finite element modeling, load rating, and instrumentation capable of recording strain, displacement, rotation, and temperature. The double-deck bridge, now showing distress, has a pedestrian level and retrofitted vehicular level that now includes light rail transit.
05/21-07/21	I-40 over the Mississippi River, Memphis, TN: Project Engineer for the instrumentation installation using rope-access techniques following the fracture of the tie-girder in the two-span continuous tied arch.
02/21-06/21	Richmond-San Rafael Bridge over the San Francisco Bay, San Francisco, CA: Project Engineer responsible for limited review of load rating by others in an attempt to improve rating factors for the controlling panel point through hand-calculations that were then compared to a nonlinear finite element model of the subject gusset plates.
06/21	I-294 under St. Charles Road, Berkley, IL: Project Manager for the evaluation of steel multi-beam structure exposed to vehicular fire to determine if it could be returned to service. Performed limited inspection, field hardness testing, and steel core extraction for benchtop hardness testing at WJE's Northbrook, Illinois laboratory and unilateral static tensile tests.
07/20	Elm Tree Bridge, Walden East Bridge, and Walden West Bridge, Lake Forest, IL: Project Engineer for the inspections of the steel arch, steel girder, and steel deck truss bridges using structure climbing techniques.
10/19-11/21	Sherman Minton Bridge - I-64 over the Ohio River, New Albany, IN: Project Engineer for instrumentation and monitoring, crack arrest hole retrofit installation, and Team Leader for the Fracture Critical and Routine Inspections of truss members of the double-decker bridge, using rope-access and structure climbing techniques.
09/19-10/19	Various Off-System Trusses, OK: Team Leader performing fracture critical inspections of ten off-system trusses of varying styles that required rope access techniques.
07/19-07/22	Danziger Lift Span Bridge, US 90, New Orleans, LA: Project Engineer assisting in the development of a monitoring and sensor installation plan, installation of instrumentation and monitoring equipment, and 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.
12/19-5/20, 11/18-1/19	Indianapolis Boulevard over Lake George Canal, East Chicago, IN: Team Leader for Routine and Fracture Critical Inspections of a two-girder double-leaf bascule bridge with multi-beam approaches. Load rating engineer for typical vehicles and heavy permit vehicles carrying 180-kip loads. Engineer on-site for largest heavy permit passage and performed pre and post passage special inspections.
10/18-01/19	Sunshine Bridge over Mississippi River, St. James Parish, LA: Project Engineer for monitoring of load redistribution during repairs to truss bottom compression chord damaged by vessel impact. Assisted with jacking system design, review of member repair design, site observations, preparation of shop and jacking procedure drawings, field technical assistance, and chord jacking operations oversight.
08/17-02/19	Mississippi Complex and Timber Bridge Inspections - Various Counties, MS: Inspections of in-service deteriorated timber, steel, and concrete bridges, some requiring rope access. Load rating engineer for more than 200 bridge load ratings.
09/19-10/19, 01/17-2/18	US 20 Julien Dubuque Bridge over the Mississippi River, Dubuque, IA: Project Engineer for Fracture Critical, In-Depth, and Element Level Inspections using traditional access and structure climbing techniques on the 5,635-foot-long structure. Load rating of the three-span truss bridge that received a major rehabilitation to increase design load from H20 to HS20 and exhibits deterioration.
08/16-Present	Michigan Avenue Bascule Bridge over the Chicago River, Chicago, IL: Project Manager for construction project balance calculations and dynamic strain gage balance testing of this double deck, quadruple-leaf, bascule truss bridge with single-unit, side-by-side leaf pairs. Additionally, performed dynamic strain gage balance testing for more than a dozen similar bridges in Illinois since this time.

Firm employed by Wiss, Janney, Elstner Associates, Inc. (WJE)				
Name	Jonathan C. McGormley		Years of relevant experience with this employer	31
Title	Principal		Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization			BS, 1992, Civil Engineering, University of Cincinnati MS, 1994, Civil Engineering, Purdue University	
Active registration number / state / expiration date			In addition to LA, Mr. McGormley is a licensed Professional Engineer in 7 other states and is a licensed Structural Engineer in IL.	
Year registered	2019	Discipline	PE LA , License No. 43912 / expires 3/31/2026	
			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)	
Contract role(s) / brief description of responsibilities			Mr. McGormley will lead inspections including repair design. Additionally, he will serve as instrumentation lead, and will oversee nondestructive testing.	
11/24-ongoing	UT of Bridge Pins and Hangers, Nine Structures, LA: Project Manager for visual and ultrasonic inspection of bridge pins and hangers, characterizing and documenting conditions of section loss, cracking, or other forms of distress.			
08/24–01/25	Strauss Trunnion Bascule Railroad Bridge, Ontario, CAN: Project Advisor and Lead Structural Investigator into cause of collapse.			
12/22–08/25	T-1 Steel Weld Assessment, LA: Project Manager for the inspection and assessment of T-1 steel butt welds. Work included identifying inspection locations, developing access plans for each structure, and preparing a work plan. Subsequent tasks involved coating removal; UT inspections of welds; QC/QA by a qualified ASNT Level III or Level II inspector; and removal of rejectable indications by grinding or coring. Structures included LA 47, IWGO (New Orleans); I-20 at Mississippi River (Vicksburg); and US 90 at Atchafalaya River (Morgan City).			
12/21-ongoing	Jefferson St. Bascule Bridge Rehabilitation, Joliet, IL: Project Manager and Structural Engineer of Record overseeing the rehabilitation of structural, mechanical, and electrical components of this rolling Scherzer lift bridge over the DesPlaines River.			
09/21–02/22	I-10/310 Bonnet Carré Fire Damage Repair, St. Charles Parish, LA: Project Manager overseeing the emergency inspection and load rating of the PPC girders, substructures, and bridge deck damaged by fire. Developed repair scope of work and estimated probable construction costs.			
03/21–12/23	Luling Bridge Deck Overlay Repair Consultation, St. Charles Parish, LA: Project Manager responsible for revising the project specifications and providing quality control assistance for the repair of an orthotropic deck overlay system comprising an epoxy underlayment with a SFRC overlay on the cable-stayed spans. Installed a long-term monitoring system to evaluate deck performance.			
01/21–05/25	Rehabilitation of I-80/94, Indiana Toll Road, Structure 1A-1, Hammond, IN: Project Manager for the investigation, field and laboratory testing, service life modeling, and rehabilitation of the steel, multi-girder superstructure comprised of 21 spans. The bridge rehabilitation included the removal of 17 bridge deck expansion joints and installation of link slabs to eliminate future maintenance issues below leaking bridge deck joints. To accommodate the new bridge deck continuity, disc bearings were installed at the base of 18 bent columns. Other repairs were designed to address structural steel deterioration with the structure to receive a new multi-coat paint system.			
07/19–07/22	Danziger Lift Span Bridge, US 90, over the Industrial Canal, New Orleans, LA: Project Manager and Structural Engineer of Record overseeing the resolution of reported operational issues with the lift span. This work included an in-depth inspection of the lift span structural elements, 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 monitoring plan and installation of a sensors that included the four trunnion bearings, and the creation of a web-accessible reporting platform to evaluate the bridge’s operations. Assisted with development of plans and specifications to address emergency repairs including the installation of a polyester polymer concrete overlay on the orthotropic deck			

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	lift span, 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. Developed cost estimates for rehabilitation.
05/19–08/19; 08/20–ongoing	I-255 Jefferson Barracks Bridge over the Mississippi River, Emergency Repairs, Mehlville, MO: Project Manager responsible for emergency repairs and subsequent rehabilitation repair design. Following the discovery of a six-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 and provided construction period services.
02/19–ongoing	US 90 over Bayou Ramos, St. Mary Parish, LA: 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 fatigue testing of CFRP repairs, and recommendations to address the documented cracking.
02/19–07/19	Lake Shore Drive Bridge over the Chicago River, Girder Fracture Investigation, Chicago, IL: Project Manager leading the investigation, stabilization, and repair installation after the bridge experienced two girder fractures related to corrosion.
10/18–01/19	Sunshine Bridge over the Mississippi River, St. James Parish, LA: Project Manager responsible for the development and implementation of a monitoring plan to provide information regarding redistribution of loads during the installation of repairs to the truss bottom compression chord damaged by impact. Structural Engineer of Record responsible for the design of the jacking system, review of member repair design, site observations, preparation of shop and jacking procedure drawings, and field technical assistance.
10/17–12/17	Materials Testing for LADOTD Bridges, Metairie, Port Allen, and Baton Rouge, LA: Project Manager for materials testing projects including the removal of steel samples to determine material strength properties and chemical composition from the Causeway Boulevard Bridge over Earhart Expressway in Metairie and the removal of forty-five concrete cores from various bridge substructures from I-10 in Baton Rouge for testing and petrographic evaluation.
03/14–12/14	S. Halsted Street over the Little Calumet River, Chicago, IL: Project advisor performing QA/QC for load ratings and gusset plate rehabilitation design to address live load rating concerns for this steel truss bridge.
09/13–09/13	Grand Avenue Bascule Bridge, Chicago, IL: Project Engineer for gusset plate condition assessment, load ratings, and preliminary retrofit development for members of this double leaf bascule bridge with inadequate live load capacity due to section loss.
02/11–06/11	Lift-Span Railway Bridge over the Mississippi River, Midwest, U.S.: Project Manager and Structural Engineer of Record assisting railroad client in determining the extent of damage and needed repairs to the lift span truss, track, and machinery after the structure was subjected to blast forces from adjacent construction. Requested to evaluate how the damage affected the structure's short- and long-term performance. The structural, mechanical and electrical site investigation included hand-on, arms-length, and visual inspections. Structural, mechanical, and electrical recommendations were then made to restore the lift span to its pre-blast condition.
04/10–04/11	Hylebos Bridge, Tacoma, WA: Project Engineer for visual inspection of the double-leaf bascule bridge in preparation for rehabilitation.
03/08–06/09	I-5 Columbia River Bridge, Portland, OR: Project Engineer overseeing span balance and counterweight adjustments of lift span bridge. Documented number and location of concrete blocks, cored counterweights to determine voids, oversaw instrumentation of operating rope turnbuckles and pinion shafts, and inspected bearings and guide rollers.

Firm employed by Wiss, Janney, Elstner Associates, Inc. (WJE)				
Name	Leonard L. Phelps		Years of relevant experience with this employer	40
Title	Supervisor-Other		Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization			BS, 1979, Biology, University of Illinois BA, 1979, Chemistry, University of Illinois MS, 1991, Chemistry, DePaul University	
Active registration number / state / expiration date				
Year registered	2021	Discipline	SSPC/AMPP Certified Protective Coatings Specialist, Certification ID# 2021-014-012, expires 12/31/2029	
Contract role(s) / brief description of responsibilities			Mr. Phelps will serve as the Primary Coating Inspector.	
08/25	Livingston Avenue Bridge Replacement, Albany, NY: Project Advisor for developing a coating system for bolted connections and assisting with constructability reviews.			
02/25	Rehabilitation of I-80/94, Indiana Toll Road, Structure 1A-1, Hammond, IN: During the construction, reviewed submittal documents and advised on coating applications and limitations for low temperature applications as part of a new multi-coat paint system and installation of structural steel repairs.			
11/24–03/25	Iams Hill Road over Tenmile Creek, Truss Bridge Steel Evaluation, Marianna, PA: WJE technicians extracted four samples from the superstructure and performed metallographic and chemical analyses to evaluate the steel properties and whether metallizing or galvanizing the steel was feasible. Tensile testing to determine the yield strength and ultimate strength of the samples was also performed. Lead Chemist responsible for assessing the viability of galvanizing and metallizing the bridge elements represented by the samples and providing guidance on the application of a coating system.			
05/22–10/22	Los Alamos Canyon Bridge, Los Alamos, NM: As the Lead Chemist, advised on bridge coating repair, which included coating assessment and coating repair specification development.			
08/21	I-255 Jefferson Barracks Bridge over the Mississippi River, Emergency Repairs, Mehlville, MO: The twin structures' main span consists of a 910-ft long tied-arch with a steel box arch and a 12-foot-deep steel I-shaped tie girder. WJE completed bridge rehabilitation plans for both structures with construction ongoing. As Lead Chemist, assisted with bridge cable specification development and guidance regarding metallizing of the hanger cables that had experienced corrosion in the splash zone. The specification included trial testing to determine the proper blast media to prepare the surface without substantially removing the existing galvanized coating.			
5/19–09/20	I-265, Lewis and Clark Bridge, East End Crossing P3 Project, Prospect, KY and Utica, IN: Twin-tower, cable-stayed bridge that spans the Ohio River. Investigated a coating peeling failure of the cable-stayed anchorages. Developed a protocol to remove poorly bonded existing coating and retain well-bonded existing coatings. Observed mock-up implementation of protocol and augmented procedures.			
04/15	I-20/I-55 Bridge over the Pearl River, Fatigue Retrofits, Jackson, MS: The twin I-20/I-55 structures consist of precast prestressed concrete girder approach spans and a 3-span continuous welded plate girder river crossing with a maximum span length of 130 feet. WJE was retained to develop and install fatigue retrofits to address distortion-induced cracking and to correct observed section loss in the girders at the abutments. As Lead Chemist, provided guidance for the surface preparation			

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	of the substrate, which included lead containing coatings and painting of the bridge repairs. Advised on bridge coating repair issues including the removal of a holding primer prior to the application of a permanent coating system.
06/11–04/14	Reeds Island Bridge, Hilo, HI: Served as Primary Coating Inspector and Lead Chemist to prepare specifications for preparation and shop painting of new galvanized steel, and for the field repair and painting of site elements in the prevailing damp, wet environment due to average rainfall of about 130 inches per year and moisture from the waterway below. Led efforts to perform site inspections of shop and field surface preparation and coating application.
10/12–11/12	Iowa Department of Transportation, Various Locations: Served as a Primary Coating Advisor and Reviewer for the inspection and evaluation of weathering steel patinas for thirty-one bridges as part of research project to evaluate the performance of weathering steel bridge structures to identify types of structures that are most vulnerable to chloride contamination, identify locations on individual structures that are most susceptible, identify possible testing methods or inspection techniques, evaluate the effectiveness of water washing, and develop prioritization for washing based on the type and condition of the structure.
09/05–10/07	State of Hawaii, Aloha Stadium, Honolulu, HI: Primary Coating Inspector and Lead Chemist responsible for assessing the condition of the substrate and extant coatings applied to structural weathering steel of the Aloha Stadium. Subsequently developed specifications for surface preparation and application of coating system (zinc-rich primer; epoxy stripe, filler, and intermediate; and fluoropolymer finish) of the salt contaminated structural weathering steel. Performed numerous site inspections of multiple phases of work required to prepare and coat the steel in a salt environment.
03/99–08/99	Chicago Skyway, Chicago, IL: Project Manager and Primary Coating Inspector performing a condition assessment of existing coatings and underlying steel substrate of the Calumet Bridge, viaducts, overpasses, and ramps. Adhesion testing, coating thickness measurement, review of substrate condition, and assessment of original substrate preparation were done.
12/1996	Bridge of the Americas, Panama City, Panama: Primary Coating Inspector overseeing the coating condition survey for the bridge coating condition evaluation of the riveted tied-arch bridge that spans a mile and a half over the Panama Canal. For the condition survey of the coating covering the bridge steel (an oil-based primer pigmented with red lead and top coated with aluminum pigmented alkyd-based coating), witnessed tests conducted by contractor on the existing coating system and he conducted random on-site evaluations of the existing coating on accessible areas of the bridge, including surface chloride analyses, peel-adhesion tests, and coating thickness tests. Performed a review of the coating specifications and proposed a method of surface preparation and a recoating system.

Firm employed by Wiss, Janney, Elstner Associates, Inc. (WJE)				
Name	John Robert Williams		Years of relevant experience with this employer	6
Title	Principal		Years of relevant experience with other employer(s)	25
Degree(s) / Years / Specialization			BS /Engineering Science / The Pennsylvania State University / 1996	
Active registration number / state / expiration date			<i>In addition to LA, Mr. Williams is licensed in 14 other states and 5 Canadian Provinces.</i>	
Year registered	2020	Discipline	PE LA , License No.: PE.0044300 / expires 09/30/2026	
Contract role(s) / brief description of responsibilities			Mr. Williams will fulfill MPR 5 and will serve as Lead Mechanical Engineer responsible for task orders involving movable bridges.	
07/19-03/24	Danziger Lift Span Bridge, US 90, over the Industrial Canal, New Orleans, LA: Senior Mechanical Engineer for the inspection of portions of the lift span contributing to reported operational issues, an in-depth inspection of the lift bridge machinery systems, and development of repairs to restore the bridge’s long-term functionality and reliability. Assisted with the development of a unique monitoring and sensor installation plan, the installation of instrumentation and monitoring equipment, and the creation of a web-accessible reporting platform to evaluate the bridge’s operations over an extended period. Lead the development of plans and specifications to address emergency failed pinion bearing repairs. Performed strain gage testing to measure span balance, implemented weight changes and air buffer repairs to improve seating of the span, and determined through testing that the span drive differentials on both towers were not functioning properly, requiring work with the manufacturer to properly adjust the associated clutches.			
07/20-1/20	St. Claude Avenue Bridge Construction Engineering Services, New Orleans, LA: Project Manager and Senior Mechanical Engineer for construction engineering services on an expedited basis to assist with the replacement of the second link pins which connect the counterweight truss to the balance link. Services included balance testing, design of the counterweight support system, development of a sequence of work for supporting the structure, unloading and removing the pins, completing the repairs and restoring the bridge to service within a marine navigation closure that was controlled by repairs to the adjacent lock. Mechanical engineering services were provided on an expedited basis due to the short time-period between the award of the project and the start of the marine navigation closure.			
06/20-04/25	Lynn-Saugus Bridge Replacement, Lynn, MA: Movable Bridge Project Coordinator for the construction of a new overhead counterweight bascule span bridge. Services encompassed mechanical and electrical construction work for the construction of this new Dutch-Style bascule span that is not commonly seen in the United States.			
03/22 – 12/24	Ports of Toronto, Ship Channel Bridge Rehabilitation, Toronto, ON, Canada: Mechanical Engineer of Record for the rehabilitation of historic Strauss bascule span. The scope of work included a scope inspection, rehabilitation design of complex span drive machinery, emergency response to a failure resulting in a bent shaft, design for temporary repairs including a temporary winch operating system used to implement repairs without undue impact to marine navigation.			
07/19-01/24	MBTA Bridge No. G-05-028, Gloucester Line over Annisquam River, Gloucester, MA: Movable Bridge Project Coordinator who provided construction support services to the contractor throughout construction for work associated with the erection of the bascule leaves, balance calculations and testing and for the installation and alignment of all machinery. Project involved construction of a twin-single leaf railroad bascule. The first leaf was installed and raised within a four-day marine outage.			
7/19-12/24	Liberty Bridge Rehabilitation, Bay City, MI: Lead mechanical engineer and Mechanical Engineer of Record for rehabilitation of all machinery associated with movable span for double leaf trunnion bascule highway bridge.			

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09/16-06/19	Brighton Road Swing Bridge Replacement, Ontario, Canada: Project Manager and Engineer of Record for mechanical and hydraulic machinery for new hydraulically operated center bearing swing bridge. Design responsibilities included finite element analysis of complex weldments and castings for the span drive cylinder brackets as part of the span drive machinery along with the center bearing, eccentric roller end lift machinery, balance wheel system and centering lock. Managed a team of engineers providing comprehensive construction services including shop drawing review, review of installation procedures, shop inspection, site inspection and witnessing and acceptance of commissioning.
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.
07/14 – 02/18	Burlington Canal Lift Bridge, Hamilton, ON, Canada: Movable Bridge Construction Specialist and Heavy Machinery Specialist for the contractor as part of a major electrical and minor mechanical rehabilitation of this critical vertical lift bridge. The electrical scope of work included complete replacement of the electrical power and control systems for the bridge including an aerial cable installation and skew control of the lift span. The mechanical scope of work included replacement of the high-speed end of the span drive machinery (brakes, speed reducer, shaft, and couplings). The scope of work required the contractor's engineer to sign and seal all submittals including shop drawings.
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.
04/03-06/17	FDOT District 4 and District 5, Asset Management Bridge Inspections: Project Manager and Senior Mechanical Engineer for mechanical inspections of 37 movable bridges in District 4 and 12 movable bridges in District 5 as part of the asset management program. Mechanical inspections of the movable spans are done annually and include a thorough visual inspection, measurements and calculation of gear wear and remaining tooth thickness, bearing clearance and alignment measurements, span lock clearance and alignment measurements, condition rating of all mechanical machinery and Pontis-style reporting. The firm is also on call for emergency inspections, post rehabilitation inspections, post repair inspections and miscellaneous design services.

Firm employed by Wiss, Janney, Elstner Associates, Inc. (WJE)				
Name	Gareth Thomas Rees		Years of relevant experience with this employer	6
Title	Principal		Years of relevant experience with other employer(s)	52
Degree(s) / Years / Specialization			College Associateship Electrical Engineering (BSc electrical equivalent) / 1968 / Polytechnic of Wales (now University of South Wales).	
Active registration number / state / expiration date			<i>In addition to LA, Mr. Rees is a licensed P.E. in 15 other states, the UK, and 5 Canadian Provinces.</i>	
Year registered	2016	Discipline	PE LA, License No.: PE.0040754 / expires 09/30/2026	
Contract role(s) / brief description of responsibilities			Mr. Rees will fulfill MPR 6 and will serve as Lead Electrical Engineer responsible for task orders involving movable bridges.	
07/19-03/24	Danziger Lift Bridge - New Orleans, LA: 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 transverse skew elimination clutches with the span drive differentials, and provided recommendations for rehabilitation of the bridge including development of a cost estimate.			
03/20-12/20	Skew Detection System Study for Vertical Lift Bridges, LA: 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 and lasers 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) and that may easily be replaced in the event of an issue. WJE was later tasked to design and manage the implementation of the new skew control technology and deployed it at one of DOTD bridges for evaluation for implementation statewide.			
04/20-12/24	Independence and Liberty Bascule Bridges, Bay City, MI: Electrical Engineer of Record for the design and construction services for the rehabilitation and upgrades to these two double leaf bascule bridges as part of a P3 project and conversion for toll operation.			
03/18-02/20	Charles Berry (Erie Ave) - Lorain 6 Bascule Bridge Rehabilitation, Lorain, OH: 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.			
04/13-10/19	Fort Madison Toll Bridge, Fort Madison, IA: 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,			

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	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, TX: Lead Electrical Engineer responsible for designing new drives, controls, and field devices for the span drive machinery and the end wedge machinery as part of a rehabilitation of this historic structure to provide long-term reliable service. Span drive machinery was comprised of components with a proven history of utilization on movable bridges and was powered by an electric motor. Design and integration of new traffic control features, bridge and maintenance lighting, and a CCTV system were also included.
12/14-1/18	Burlington Lift Bridge, St. Catherines, Ontario, Canada: Lead Electrical Engineer providing construction support services to the contractor for the replacement of all power systems control systems and an aerial cable replacement for this critical vertical lift bridge. Work included review of all shop drawings, coordination of design issues, and start up and commissioning of the bridge.
06/18-06/19	BNSF Slough River Bridge 8.8 - Portland, OR: Electrical Engineer of Record for design, construction and commissioning of the electrical operating systems and integration into the existing railroad operating network. Work consisted of replacement and upgrade of aging electrical systems to provide reliable electrical operating systems. Design additions to the electric service include construction of a new electric service compound containing a standby generator and automatic transfer switch, a new submarine cable installation and a new power slip ring arrangement at the center bearing to transition power between the pivot pier and the moving structure. The bridge drive and control system design replaced the existing main drive motors with variable frequency drives and squirrel cage induction motors. This combination has the capability of operating the bridge at infinitely variable speeds with torque control and dynamic braking. The existing relay logic and operator's control console replacement consists of a modern programmable logic controller with built-in SCADA and diagnostic functionality, and a streamlined operator's control station with an HMI providing status, alarm, and control functionality. The work included staged construction and relocation of the bridge interlocking signal and dispatcher control board as test as comprehensive testing of the bridge control system and signal interfaces.

Firm employed by Bridge Diagnostics Inc. (BDI)				
Name	Brice Carpenter		Years of relevant experience with this employer	16
Title	Senior Engineer		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			B.S., Civil Engineering, May 2007 M.S., Civil Engineering, May 2009	
Active registration number / state / expiration date			PE.0039341 / LA / 03/31/2027	
Year registered	2014	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Instrumentation / Field Based Evaluation Engineer (MPR4)	
07/09 – Present	Beginning work for BDI in July 2009, Mr. Carpenter now serves as a senior engineer, engineering lead, and subject matter expert on instrumentation, live-load testing, and data-driven structural evaluation. Mr. Carpenter has been involved with the non-destructive testing and evaluation of hundreds of structures including bridges, buildings, and hydro-structures such as lock gates and spill gates. His involvement in these projects included monitoring/load-test design, planning and implementation; provision and installation of instrumentation and data acquisition systems, data processing and review; field-verified finite-element (FE) analysis; various other evaluation types; and reporting. Brice is currently a licensed professional engineer in six states and has performed complete structural analyses and load ratings using a variety of design codes such as AASHTO (ASD, LFD, LRFD), Canadian (CAN/CSA), Australian Standard, KSA Highway Design, and AREMA. Mr. Carpenter has been involved in many projects at BDI where NDT-E information was used to enhance the analysis portion of the project. This includes, but is not limited to, interpretation and evaluation of NDT-E data and results to formulate assessments of structures.			
10/24 - Ongoing	MULTI-PHASE FIELD-VERIFIED EVALUATION OF THE BAYOU RAMOS BRIDGES <i>Louisiana Department of Transportation and Development / Morgan City</i> The Bayou Ramos bridges are currently load posted due to deterioration present along many of the prestressed concrete girder ends. To reevaluate these structures’ current live-load capacity, BDI was contracted to provide a multi-phase evaluation. This evaluation included an initial load rating evaluation where multiple strut-and-tie method (STM) procedures were considered and evaluated, a diagnostic load test-based evaluation used to validate both structural behavior and STM capacity assumptions, and a monitoring program set to provide crucial information on the current activity level of the observed deterioration. Brice Carpenter served as project engineer responsible for testing/monitoring plan development and application, evaluation team management, and QA/QC of various project tasks.			
07/24-02/25	REFINED LOAD RATING OF FALMOUTH BRIDGE FOR EMERGENCY REPAIR RESPONSE <i>Virginia Department of Transportation/ Fredericksburg District</i> Inspections on the Falmouth Bridge carrying Cambridge St. (US-1) over the Rappahannock River in Falmouth, VA showed significant advancement of corrosion of steel members, especially floorbeams and beam/girder ends near deck expansion joints. BDI performed diagnostic load testing and used the accumulated data to calibrate a finite-element model of the bridge for use in a load rating evaluation. Load rating results indicated that the deterioration of the girders and floorbeams resulted in significantly deficient ratings for these members. BDI’s assessment informed emergency repairs for this structure. Mr. Carpenter served as project engineer responsible for overseeing the testing plan design, development and implementation, field-verified finite element modeling, load rating, and reporting.			

01/25 – 02/25	BAYOU LA LOUTRE BRIDGE BALANCE TESTING <i>CEC</i> As part of CEC’s rehabilitation of this vertical lift bridge in Yscloskey, LA, BDI provided bridge balance testing services. This evaluation was performed by installing torque sensors attached to the operating shafts and using the collected response data to compute balance criteria for the structure. Brice served as the project engineer, responsible for client coordination, design and implementation of instrumentation plans, data processing and assessment, balance calculations, and reporting.
01/24-03/24	LOAD TEST & FIELD-VERIFIED LOAD RATINGS FOR CFRP RETROFIT BRIDGE <i>VDOT Fredericksburg District</i> As part of the structure’s repair plan, the condition of this historic reinforced concrete T-beam bridge was assessed following a CFRP retrofit. BDI was contracted to perform diagnostic load testing and subsequent field-verified load rating as part of the approval process for the repair strategy utilized. Submittals included load testing and rating reports presenting the collected data and providing results of the evaluation. Brice Carpenter served as lead analysis and load rating engineer for this project, responsible for instrumentation and testing plan design and implementation, field-verified finite-element modeling, load rating calculations, and reporting.
10/21-05/22	LOAD TEST AND FIELD-VERIFIED LOAD RATINGS OF 10 STRUCTURES, LA <i>Louisiana Department of Transportation and Development (LADOTD)/Forte & Tablada 2021-2022</i> BDI performed refined load ratings of ten structures based on diagnostic load testing of each structure. The evaluated structures ranged from short-span reinforced concrete slabs to culverts of various types with minimal fill depths. In all cases, the bridges were selected for refined analysis based on their inability to meet posting requirements using more standard evaluation techniques. BDI’s approach served to validate structure response characteristics in an effort to increase or remove posting requirements. Mr. Carpenter was the lead analysis engineer for the project and provided instrumentation plan design, finite-element model calibration and analysis, load rating calculations, and related reporting.
04/21-05/21	BAYOU TECHE PIER TESTING, LA <i>Louisiana Department of Transportation and Development (LADOTD)</i> As part of a Forte and Tablada DOTD complex inspection task order, BDI assisted the inspection team quantify movement observed by their team in the center pier of this swing bridge during operation. Rotation and displacement of the pier were measured during bridge openings to access this inspection finding. Mr. Carpenter was the project engineer responsible for testing plan development, installation of instrumentation and data acquisition, assessment of data quality during testing procedures, analysis and interpretation of accumulated data, and report generation.
07/20-01/21	LA507 OVER I-20 ABC SPAN MOVE MONITORING <i>JB James Construction LLC</i> During the replacement of this bridge’s superstructure, accelerated bridge construction was utilized where spans were cast nearby and moved into place during short outages. BDI provided monitoring services during the span moves. Mr. Carpenter was a field/analysis engineer responsible for installation of instrumentation and data acquisition, data collection during span move operations, on-site data analysis and interpretation, data processing and reporting.

Firm employed by Bridge Diagnostics Inc. (BDI)				
Name	Brett Commander		Years of relevant experience with this employer	35
Title	Vice President / Principal		Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		BS / 1986 / Civil Engineering MS / 1989 / Structural Engineering		
Active registration number / state / expiration date		P.E. 35864 / LA / 3/31/27		
Year registered	2010	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Principal Engineer / Subject Matter Expert		
10/89 – Present	Mr. Commander is a co-founder of BDI and has led the engineering team for more than 32 years. He started his engineering career developing software and analytical methods for realistic assessment of structural performance, particularly dealing with load distribution of various bridge types and understanding loading applied to bridges. All BDI’s modeling procedures have been compared with and calibrated to actual response measurements during live-load tests and structural health monitoring applications. Mr. Commander’s experience with vehicle load considerations includes Bridge Weigh-in-Motion research and numerous super-heavy load tests and permit load ratings on more than 500 highway and railway bridges using a variety of design codes such as AASHTO, LADOTD BDEM, and many state-specific codes including Louisiana specifications. Mr. Commander now leads a team of engineers to accurately assess bridge performance through instrumentation and data-driven methods. He is currently a licensed professional engineer in 30 states (including Louisiana), primarily since heavy permit truck routes typically cross state lines. Mr. Commander has also designed/overseen capacity testing projects of concrete and steel structures using various NDE techniques and has implemented hundreds of structural monitoring systems.			
01/23 - Ongoing	UNITED STATES ARMY CORPS OF ENGINEERS, INSTRUMENTATION AND MONITORING IDIQ <i>US Army Corps of Engineers, Walla Walla District</i> Brett serves as the Principal-in-Charge responsible for instrumentation, structural testing, and structural health monitoring of mechanical and structural systems at several dams in the northwest region. Mr. Commander’s role is to address issues presented by USACE project personnel and develop instrumentation methods that best answer complex problems regarding the condition and behavior of structural systems. He manages BDI engineers in the design and implementation of testing and monitoring programs to achieve this goal. This IDIQ \$7M/5-year contract is available to all districts in the northwest region.			
02/23 - Ongoing	VIRGINIA DOT STATEWIDE INSTRUMENTATION AND MONITORING ON-CALL <i>Virginia Department of Transportation (VDOT)</i> As Subject Matter Expert in the areas of instrumentation, structural testing, and monitoring for the duration of this contract, Mr. Commander’s role is to develop monitoring and quality control plans to address specific structural concerns on bridges, tunnels, and ancillary systems. This includes developing monitoring scopes, provisioning instrumentation and data acquisition, and overseeing teams of engineers and technicians to install and maintain monitoring systems. Various monitoring methods and structural evaluation techniques are implemented, from Automated Total Stations to strain gage installation and load testing to geotechnical monitoring systems. The current IDIQ is a \$7M per year contract for up to four years. BDI held the previous contract 2017-2022, which was a \$3 million two-year contract with two renewable terms.			

07/22-09/22	NONDESTRUCTIVE EVALUATION OF THE EIGHT (8) USDA FOREST SERVICE BRIDGES, MT AND ID <i>USDA Forest Service / Great West Engineering</i> BDI performed nondestructive evaluation (NDE) of eight bridges around Missoula, Montana, and northeastern Idaho. These structures are owned and managed by the National Forest Service and are a combination of reinforced concrete slabs, prestressed concrete slabs, prestressed double tees, and concrete arches. Due to the lack of available as-built drawings, various non-destructive and minimally destructive techniques were utilized to determine critical information and calculate load ratings. Techniques included ground penetrating radar (GPR), Ultrasonic Shear Wave Tomography (USWT), and removal of concrete cover at selected locations to assess bar/strand size, shape, and cover depth. The collected data helped determine information such as reinforcing steel and prestressing strand location, orientation, size, shape, spacing, and cover depths at each bridge. Overall geometric information such as span length, width, and member dimensions were also obtained and used to prepare a report and develop CAD drawings for each structure. Great West Engineering used this information to calculate load ratings for each structure. Mr. Commander provided PE Review and Sealing of all deliverables.
10/21-05/22	LOAD TEST AND FIELD-VERIFIED LOAD RATINGS OF 10 STRUCTURES, LA <i>Louisiana Department of Transportation and Development (LADOTD)/Forte & Tablada</i> BDI performed refined load ratings of ten structures based on diagnostic load testing of each structure. The evaluated structures ranged from short-span reinforced concrete slabs to culverts of various types with minimal fill depths. In all cases, the bridges were selected for refined analysis based on their inability to meet posting requirements using more standard evaluation techniques. BDI's approach served to validate structure response characteristics in an effort to increase or remove posting requirements. Load rating calculations were performed within the requirements of LADOTD and AASHTO, and load rating reports meeting LADOTD requirements were submitted for each structure. Mr. Commander was Principal Engineer for the project and provided PE Review of all deliverables.
11/12-9/22	US-90 BAYOU RAMOS BRIDGE LOAD TESTING AND MONITORING, LA <i>Louisiana Department of Transportation and Development (LADOTD)</i> Due to unexpected cracking in PS concrete AASHTO beams, BDI performed load tests to determine the cause and effect of cracks in continuous multi-span prestressed concrete girders. Field-verified load ratings were also calculated according to LADOTD specifications, based on a finite-element model calibrated using the collected testing data. After the completion of the initial evaluation, BDI designed and installed monitoring systems on two sections of the structure to monitor its condition. BDI has maintained the structural health monitoring system throughout the project duration, and data collection is still ongoing. As a technical advisor/principal engineer, Mr. Commander oversaw live-load and thermal load monitoring that was performed during and after repairs to evaluate the performance of the retrofit.
01/17 – 1/22	RETAINER CONTRACT FOR TESTING UNKNOWN FOUNDATIONS STATEWIDE (DOTD CONTRACT NO. 4400009224) <i>Louisiana Department of Transportation and Development (LADOTD)</i> Mr. Commander was the principal investigator for NDT-E services to determine the unknown foundations of 1,857 piles in Louisiana. The project utilized multiple methods of NDT-E, including ultra-seismic testing, parallel seismic survey, sonic echo/impulse response, and guided wave. Thousands of piles have been tested to determine the embedded depth for subsequent NBIS 113 scour evaluation and reporting. BDI also assisted LADOTD in FHWA reporting these items by uploading all reports into AssetWise.

Firm employed by Bridge Diagnostics Inc. (BDI)				
Name	Steven M Fall Jr., PE		Years of relevant experience with this employer	6
Title	Project Manager		Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization			BS / 2019 / Civil Engineering	
Active registration number / state / expiration date			PE.0048637 / LA / 09/30/2026	
Year registered	2	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities			Project Manager / Engineer	
05/18-Present	General Experience – Beginning work for BDI in May of 2019, Mr. Fall has spent more than 6 years in the private sectors in both non-destructive testing and evaluation and routine infrastructure inspection and monitoring and is the current office manager of the Louisiana office. Mr. Fall has been involved with non-destructive testing and evaluation of hundreds of structures including bridges, buildings, and hydro-structures such as lock gates and spill gates. His involvement in these projects included project management, planning, implementation, installation of instrumentation, testing, data processing, data review, and reporting. Previously, Mr. Fall worked with HNTB inc. working in the transportation and civil department performing inspections of substructures and bridges on various jobs. He is a member of ASCE and ACI in the Louisiana chapter. Mr. Fall is a certified Professional Engineer, SPRAT L1 ropes access technician, ASNT Level I GPR inspector, and Team Lead under FHWA guidelines for routine inspections. He is also a certified traffic control supervisor, traffic control technician, and flagger in the state of Louisiana. He also has worked with various NDE methods for fracture critical techniques including but not limited to Magnetic Particle Testing, Ultrasonic Testing (UT), and Dye Penetrant Testing. He graduated from the University of New Orleans with a bachelor’s degree in civil engineering.			
05/23–Present	Retainer Contract for Non-Destructive Evaluation of Statewide Structures (DOTD Contract 4400025002) – Louisiana Department of Transportation awarded BDI with the retainer contract for Non-Destructive Evaluation of Statewide Structures. This IDIQ has 8 Task Orders awarded and will continue until 2025. These task orders include but are not limited steel inspection using Ultrasonic testing and Magnetic Particle Testing; deck evaluations via non-destructive testing methods including SounDAR, Ground Penetrating Radar, Infrared Thermography, and High Resolution Imaging; material sampling using coring; NHI routine and fracture critical inspections; and emergency response efforts. Mr. Fall serves as the project manager for this contract and is responsible for the testing plan development and application, team management, and QA/QC of various project tasks.			
11/23 – 12/23	Paris Road Emergency Bridge Inspection in Chalmette, LA – After noting a critical finding in a routine inspection on bridge recall 001621 by LADOTD on Paris Rd., BDI was called to perform an emergency in-depth inspection on the underside of the structure along with an NDE of the deck. The inspection results lead to repairs on the bridge and the reopening of the structure. Mr. Fall was the inspection lead on this project for both the NBIS emergency inspection and the Non-destructive testing and evaluation of the structure. He was also responsible for the project management and reporting on the structure.			

01/21 – 05/23	Task Orders for Retainer Contract for Non-Destructive Evaluation of Statewide Structures (DOTD Contract 4400017163) – – Louisiana Department of Transportation awarded BDI with the retainer contract for Non-Destructive Evaluation of Statewide Structures. This IDIQ had 13 Task Orders awarded and lasted until 2023. These task orders include but are not limited steel inspection using Ultrasonic testing and Magnetic Particle Testing; deck evaluations via non-destructive testing methods including SoundAR, Ground Penetrating Radar, Infrared Thermography, and High Resolution Imaging; material sampling using coring; NHI routine and fracture critical inspections; and emergency response efforts. Mr. Fall served as a staff engineer for this project and was responsible for the testing plan development and application, team management, and field application of the various project tasks
06/22-06/22, 06/23-06/23	Counterweight Balance Testing of the Seabrook Bascule Bridge (Port of New Orleans) in New Orleans, LA –This bridge is a Strauss double heal-trunnion bascule bridge that carries St. Claude Avenue over the Industrial Canal. It is subject to hurricane winds and salt water and therefore has extreme corrosion and operational issues. During an inspection, the counterweight-to-span link bushings were found to be broken and falling out of the bearing hub. BDI was subcontracted by HNTB to measure force and moment in the truss link member and evaluate the span balance and operational friction. Operational test results showed high levels of friction and asymmetry in both the friction and lifting torque. Tests were initially performed to identify operational issues and again after bushings were replaced and drive torque imbalance conditions were addressed. BDI’s instrumentation and data analysis was essential to identifying and solving the operational problems. The primary relevance of this project is identification and quantification of operational performance of bascule bridges.
07/19 – 01/20	Counterweight Balance and Friction Assessment of the St. Claude Bridge (LADOTD) in New Orleans, LA – BDI performed a counterweight Balance and friction assessment of the St. Claude Bridge to assist LADOTD to bring their bridge into lifting specifications and to determine the friction in each member during lifts. Mr. Fall installed all gages on the shafts and some gages on the steel members of the bridge, performed all testing, and helped report on these findings to help LADOTD balance the counterweight in the bridge and analyze the friction in each member. Mr. Fall was a team member responsible for field instrumentation and operational testing.
04/21 – 05/21	LA 324 over Bayou Teche – As part of Gresham Smith’s advanced inspection team, BDI was contracted to perform short-term testing on the pivot pier of this swing bridge. During initial inspection, the pivot pier was observed to significantly rotate/translate during the opening operation. BDI’s testing was performed as part of an emergency response to the inspection findings and consisted of taking laser displacement measurements of the pier during operational swings. Through this testing, BDI verified that up to 6” of movement was occurring at the end of the opening operation and provided short- and long-term recommendations. Mr. Fall was a team member responsible for team coordination, field instrumentation and testing, data processing and review, and reporting.

Firm employed by Bridge Diagnostics Inc. (BDI)				
Name	Jesse Sipple, PE		Years of relevant experience with this employer	11
Title	Vice President, Services Division Manager		Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization			PhD / 2013 / Civil Engineering MS / 2008 / Civil Engineering BS / 2007 / Civil Engineering	
Active registration number / state / expiration date			41028 / LA / 03/31/2027 50709 / CO / 10/31/2025 0402059651 / VA / 11/30/2026 84285 / MT / 6/30/2026	
Year registered	2016	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Services Program Manager / Instrumentation Subject Matter Expert	
05/07-Present	Dr. Sipple has over 18 years of experience in instrumentation, diagnostic testing, structural health monitoring, and analysis of heavy civil structures, with a focus on bridges. Dr. Sipple's experience includes planning and executing field installations and testing for large, complex projects; project management; development of new methods for monitoring and data processing; and performing detailed analysis and reporting. Dr. Sipple is a licensed Professional Engineer in several states, sits on a variety of technical committees, and was the former chair of the ASCE SEI Methods of Monitoring Structural Performance Committee. Dr. Sipple is the Engineering Division Manager at BDI. His role includes overseeing the testing, monitoring, and engineering groups, including oversight in both the operation of the division as well as technical oversight of active projects. Dr. Sipple's research expertise is in dynamic testing of bridges for the purpose of parameter estimation through finite element model updating. Dr. Sipple’s research on parameter estimation for model calibration was using both static and dynamic data to update finite element models based on field measured structural response data.			
07/18-08/18 & 07/23-08/23	BEAR RIVER BRIDGE DYNAMIC TESTING <i>Stantec</i> BDI was contracted by Stantec to perform dynamic tests on the Bear River Siphon Bridge near Auburn, CA. The bridge is a single span suspension bridge carrying a water supply pipe. The testing focused on measuring vibration responses across the bridge to determine the dynamic response of the entire structure. The overall goal of these tests was to validate the predicted structural response. Additionally, cable dynamic testing was performed to determine the in-situ tensile forces in each hanger cable and stay cable. Dr. Sipple performed quality control on the analysis and reporting for this project.			
2022 - Present	WEST SEATTLE HIGH BRIDGE INVESTIGATION AND MONITORING, WA <i>Seattle Department of Transportation (SDOT)</i> BDI was contracted by Seattle DOT to provide a nondestructive testing and structural health monitoring program to help evaluate the performance of the structure during the first phase of retrofitted internal post-tensioning. The monitoring program helped the Seattle DOT make decisions and resulted in the next phase of strengthening to open the bridge by 2022. Dr. Sipple			

	is the project manager and monitoring engineer in charge of BDI's emergency response participation, which included running several drills with mock alarm scenarios, developed by Dr. Sipple, with the project team.
06/20 - Present	VIRGIN RIVER GORGE TESTING & MONITORING, AZ <i>Burgess & Niple</i> BDI was contracted by Burgess & Niple under ADOT for the Accelerated Innovation Deployment grant as part of FHWA's Technology and Innovation Deployment Program to perform load testing and structural health monitoring on three bridges along I-15 in the Virgin River Gorge. Dr. Sipple is the project manager for this project's various phases, including the live load testing portion and the long-term monitoring. Dr. Sipple is also a monitoring engineer on this project and is in charge of the monthly reporting, which includes rain flow data analysis, reporting on changes in structural response throughout the project, and system alarm response.
03/20 - Present	BALLARD BRIDGE MONITORING, WA <i>BNSF Railway</i> Dr. Sipple was the Project Quality Control Engineer responsible for QC of the trunnion friction and operating torque monitoring system installed on this double trunnion Strauss bascule bridge. BDI installed strain gages, shaft torque gages, and tiltmeters to monitor changes in trunnion friction, system friction, and shaft torque over a 2-year monitoring period. Jesse managed the analysis team that set up automated computation and reporting for trunnion friction, system friction, and shaft torque.
07/20-01/21	LA507 OVER I-20 ABC SPAN MOVE MONITORING, LA <i>JB James Construction LLC</i> During the replacement of this bridge, accelerated bridge construction was utilized where spans were cast nearby and moved into place during short outages. Dr. Sipple was a field/analysis engineer responsible for monitoring plan implementation, instrumentation, monitoring during span moves, on-site data interpretation, and data processing and reporting.
02/20 – 11/20	LIVE LOAD TESTING AND FIELD-VERIFIED LOAD RATING OF 16 BRIDGES, VA <i>Virginia Department of Transportation</i> BDI provided load testing and field-verified load rating of 16 structures in the Fredericksburg and Richmond districts of VDOT. BDI was responsible for the design of load testing requirements, development of instrumentation plans, execution of fieldwork and load testing, data analysis, finite element (FE) model creation and calibration, and eventual load rating per VDOT and AASHTO requirements. Dr. Sipple acted as the quality control manager for this project and all related tasks.
6/19-1/20	ST. CLAUDE BASCULE BRIDGE BALANCING <i>HNTB</i> Instrumentation tasks were performed when investigating a bearing failure on the span to counterweight link and whether this failure was connected to an imbalance between the counterweight and lift span. BDI performed strain gage testing on the link frame and counterweight balance procedures. Dr. Sipple was the Project Quality Control Engineer responsible for QC of counterweight/span balance, friction calculations, and structural performance evaluation on this double trunnion Strauss bascule bridge.

Firm employed by Bridge Diagnostics Inc. (BDI)				
Name	Charles Young, PE		Years of relevant experience with this employer	7
Title	Vice President		Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization			MS / 2017 / Civil Engineering BS / 2012 / Civil Engineering	
Active registration number / state / expiration date			PE.0042773 / LA / 03/31/2027 PE.0066578 / CO / 10/31/2025 PE.0402065368 / VA / 06/30/2026	
Year registered	2018	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			NDT Program Manager / NDT Subject Matter Expert	
06/12-Present	Mr. Young has 13 years of experience in the fields of nondestructive evaluation and testing (NDE/NDT), structural monitoring, and inspection/evaluation of civil infrastructure. Mr. Young is responsible for program management, project management, analysis, and field services related to inspection and NDE/NDT of civil infrastructure. Mr. Young is certified ASNT Level II GPR and IR Inspector, SPRAT Level I certified, is a registered Part 107 UAV Pilot, and holds multiple certifications from NHI including FHWA-NHI-130055 Safety Inspection of In-Service Bridges (2014), FHWA-NHI-130053 Bridge Inspection Refresher Training (2021), and FHWA-NHI-420018 Instructor Development Course (2022). He is a registered Professional Engineer in multiple states including Louisiana.			
12/22-Present	IDIQ Contract for Nondestructive Evaluation of Structures Statewide (DOTD Contract No. 4400025002) Mr. Young is the Project Manager for statewide NDE of structures for DOTD under this contract. Scope items include testing of bridge decks, concrete substructures, steel elements such as welds and pin and hanger assemblies, unknown foundations, tunnels, culverts, and other highway transportation infrastructure. Mr. Young assists DOTD and the project team with successfully implementing NDE and inspection technologies for application and best methods for analysis and reporting of findings into DOTD’s AssetWise.			
05/23-Present	Twin Spans and Six Mile Bridge Inspection and NDE - The objective of this project is to perform a comprehensive inspection and NDE of the reinforced concrete bridge decks of the Twin Spans and Six Mile Bridges in Louisiana. Also included are supplemental inspection access techniques including unmanned aerial systems (UAS). Nondestructive evaluation includes a multi-technology bridge deck assessment including Deck Acoustic Response, Ground Penetrating Radar, Infrared Thermography, and High-Resolution Imagery. Mr. Young acted as the Project Manager. This work is being performed under LADOTD contract 4400025002.			

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01/19-12/22	IDIQ Contract for Nondestructive Evaluation of Structures Statewide (DOTD Contract No. 4400015262) Mr. Young is the Project Manager for statewide NDE of structures for DOTD under this contract. Scope items include testing of bridge decks, concrete substructures, steel elements such as welds and pin and hanger assemblies, unknown foundations, tunnels, culverts, and other highway transportation infrastructure. Mr. Young assists DOTD and the project team with successfully implementing NDE and inspection technologies for application and best methods for analysis and reporting of findings into DOTD's AssetWise.
07/21-10/22	I-10 Over Atchafalaya Basin Inspection and NDE - The objective of this project is to perform an NHI routine and fracture critical (NSTM) inspection of the bridge carrying I-10 over the Atchafalaya Basin between New Baton Rouge and Lafayette along with targeted NDE techniques at various critical portions of the structure. Also included are supplemental inspection access techniques including unmanned aerial systems (UAS). Nondestructive evaluation includes a multi-technology bridge deck assessment including Deck Acoustic Response, Ground Penetrating Radar, Infrared Thermography, and High-Resolution Imagery. Mr. Young acted as the Project Manager. This work was performed under LADOTD contract 4400015262.
10/20-09/22	Bonnet Carre Spillway Inspection and Nondestructive Evaluation, LA – This project involved an NHI routine and fracture critical (NSTM) inspection of the Bonnet Carre Spillway Bridge and targeted NDE techniques at various critical portions of the structure. Two cycles of Routine and NSTM inspections were conducted for this structure. This work was performed under an IDIQ Contract for Non-destructive Evaluation of Structures for DOTD. Also included were supplemental inspection access techniques including unmanned aerial systems (UAS). Nondestructive evaluation includes a multi-technology bridge deck assessment including Deck Acoustic Response, Ground Penetrating Radar, Infrared Thermography, and High-Resolution Imagery. Mr. Young acted as the Project Manager. This work was performed under LADOTD contract 4400015262.
08/19-07/20	NDE of City Park Lake Bridge LA – Mr. Young was the project manager for the NDE of the City Park Lake Bridge in Baton Rouge, LA. This project included a routine inspection of the structure, along with NDE technologies including ground penetrating radar (GPR), deck acoustic response (DAR), infrared thermography (IR), and high-resolution video (HRV). The remote inspection was performed on the substructure utilizing visual inspection and IR. This work was performed under LADOTD contract 4400015262.

Firm employed by Ardaman & Associates, Inc.				
Name	Megan Bourgeois, P.E.		Years of relevant experience with this employer	19
Title	PRINCIPAL ENGINEER / ASSISTANT BRANCH MANAGER		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		B.S. / 2006 / Civil Engineering Traffic Control Supervisor / LA / 6-21-2028 DOTD Flagger / LA / 8-14-2028 Certified NHI Drilled Shaft Inspector		
Active registration number / state / expiration date		0036725 / LA / 03-31-2026		
Year registered	2011	Discipline	Civil	
Contract role(s) / brief description of responsibilities		Project Manager / MPR #9		
<i>Ms. Bourgeois has more than 19 years of experience with design and analyses of countless types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA & GEC design, slope stability (embankment and excavation) and earth retaining structures. She also has extensive experience with geotechnical instrumentation, installation and monitoring, and construction phase testing and laboratory management. She has served as Ardaman's project manager for many LADOTD projects for bridges and roadways throughout Louisiana and completed numerous geotechnical investigations, engineering, and reporting in accordance with LADOTD standards. She has successfully overseen several major contracts for LADOTD and other clients. Ms. Bourgeois also serves as the director of our geotechnical engineering and CMT laboratories in Baton Rouge and has overseen the laboratory testing programs in accordance with LADOTD standards. In this role, she supervises the laboratory managers, oversees testing, provides guidance to laboratory staff, and ensures appropriate protocol is followed and deadlines are met in addition to providing training material and maintaining all laboratory certifications, including AMRL, CCRL, DEQ & USACE.</i>				
07/23-Ongoing	SP NO. H.013284 / MRB SOUTH GBRL: LA 1 TO LA 30 CONNECTOR: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA. <i>Project Engineer.</i> The project consists of an Enhanced Planning investigation into S.P. No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments. Ms. Bourgeois helped oversee supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile all the soil borings and ECPT. The preliminary engineering analyses included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations.			
07/21-01/22	SP NO. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA. <i>Project Manager.</i> Managed all aspects of this project pertaining to coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 geophysical survey transects. A majority of the soil borings were completed from a barge over deep water, some from a marsh buggy over shallow water and thick marsh grass. Ms. Bourgeois also managed and oversaw the laboratory testing program and processing and analyzing of the ECPT and ER data. She also assisted with development of a geotechnical database and preparation and submittal of a geotechnical data report. This project consisted of obtaining geotechnical data under a strict deadline to be used in the design of a replacement of the existing I-10 Calcasieu River Bridge with a new structure and improvements to various other interchanges.			

04/21-Ongoing	SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / RURAL BRIDGE INITIATIVE PHASE II: West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA. Project Engineer. This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, over various size rivers and creeks. Ms. Bourgeois leads technical reviews pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses, construction testing program recommendations, and report preparation in accordance with LADOTD guidelines.
02/20-Ongoing	SP NO. H.004791 / DESIGN SUPPORT SERVICES LA 23, BELLE CHASSE BRIDGE & TUNNEL: Plaquemine Parish, LA. Project Engineer/Laboratory Director. Ardaman's scope consists of review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's for the P3 Project consisting of replacing the Belle Chasse bridge and tunnel. In addition, Ardaman performs acceptance verification sampling and testing during the construction for soils and concrete. Ms. Bourgeois assisted in review and acceptance of geotechnical services as well as quality control and review of all acceptance verification sampling and testing during construction.
10/15-Ongoing	SP NO. H.013579 / PECUE LANE I-10 INTERCHANGE: East Baton Rouge Parish, LA. Project Manager. This project consists of twin bridges with MSE wall abutments for both bridges crossing Interstate I-10, a bridge crossing Ward's Creek, and on/off-ramps in south Baton Rouge. Ms. Bourgeois managed all aspects of the project that included field investigations, laboratory testing, and engineering design. Ms. Bourgeois performed analyses including settlement estimates with recommendations for monitoring, driven pile design including down drag considerations, MSE Wall design, slope stability and pavement section recommendations; all completed according to DOTD standards. She is currently assisting with the field construction monitoring.
10/09-Ongoing	SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW: Vicksburg, MS. Project Manager. Ms. Bourgeois manages this multi-million-dollar, highly technical project consisting of investigating movement of the I-20 Bridge in Vicksburg, MS. She managed a highly technical team including academia, experts, including internationally recognized geotechnical engineers, geohydrologists, instrumentation specialists, and 3-D geotechnical modeling experts. She managed and personally oversaw a comprehensive laboratory testing program and was involved in refining the geotechnical site characterization for the bank/bluff where there was evidence of shifting creating movement in the bridge structure. The specialized testing, she personally performed or managed included x-ray diffraction, x-ray scanning to identify existing shearing planes and stress-reversal direct shear tests to determine true residual angles of critical strata. She was instrumental in designing the geotechnical instrumentation program for this project including vibrating wire piezometers, Casagrande type piezometers, SAA inclinometers, and traditional inclinometers. In addition, Ms. Bourgeois performed seepage and drawdown analyses, slope stability analyses, evaluation of remedial measures including design and evaluation of large foundation structures and developed technically feasible solutions to mitigate ground movement. She co-authored the geotechnical analysis and design report. She is currently overseeing the comprehensive monitoring program.
09/22-Ongoing	EVANGELINE ROAD & CN RAILROAD CULVERT: St. Charles Parish, LA. Project Engineer. Ardaman completed subsurface exploration and geotechnical engineering evaluation. The project consists of the installation of two reinforced concrete box culverts (RCBCs) on the north and south sides of the CN Railroad as it crosses over Evangeline Road near Montz, Louisiana in St. Charles Parish. Ardaman performed the geotechnical fieldwork and engineering evaluation including recommendations for site preparation, shoring and bedding recommendations, and pavement design in a final report.

Firm employed by Ardaman & Associates, Inc.				
Name	Robert Jewell, P.E.		Years of relevant experience with this employer	18
Title	PROJECT ENGINEER / BRANCH MANAGER		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			B.S. / 2009 / Civil Engineering	
Active registration number / state / expiration date			38579 / LA / 09-30-2026 Traffic Control Supervisor / LA / 08-23-2028 DOTD Flagger / LA / 07-31-2029	
Year registered	2013	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Project Engineer	
<i>Mr. Jewell serves as the manager of our Baton Rouge office and has over 15 years of experience with design and analyses of countless types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA & GEC design, slope stability (embankment and excavation) and earth retaining structures. He has managed and coordinated many geotechnical field investigations, including shallow and deep borings, CPT soundings, and performed analyses and prepares design recommendation reports for LADOTD projects. Mr. Jewell has extensive experience in construction phase testing and oversight including dynamic and static testing, pile integrity testing, cross hole sonic logging, settlement monitoring, and geotechnical instrumentation. In particular, he has over 15 years of experience performing, analyzing, and reporting for PDA testing.</i>				
07/23-Ongoing	SP NO. H.013284 / MRB SOUTH GBRL: LA 1 TO LA 30 CONNECTOR: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA. Project Manager. The project consists of an Enhanced Planning investigation into S.P. No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments. Mr. Jewell managed supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile all the soil borings and ECPT. He helped oversee the preliminary engineering analyses which included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations. A data report and preliminary geotechnical assessment report were submitted.			
07/21-Ongoing	SP NO. H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR): Baton Rouge Parish, LA. Project Manager. The project consists of a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles. Mr. Jewell currently oversee all aspects of engineering analyses pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. Mr. Jewell helped develop the Geotechnical Data reports, memorandums, and Design reports for this project.			
09/22-Ongoing	EVANGELINE ROAD & CN RAILROAD CULVERT: St. Charles Parish, LA. Project Manager. Ardaman completed subsurface exploration and geotechnical engineering evaluation. The project consists of the installation of two reinforced concrete box culverts (RCBCs) on the north and south sides of the CN Railroad as it crosses over Evangeline Road near Montz, Louisiana in St. Charles Parish. Ardaman performed the geotechnical fieldwork and engineering evaluation including recommendations for site preparation, shoring and bedding recommendations, and pavement design in a final report.			
07/23-Ongoing	SP NO. H.012030 / US 371: KCS RAILROAD OVERPASSES HBI: Webster Parish, LA. Project Manager. The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Ardaman performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.			

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04/21-Ongoing	SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / RURAL BRIDGE INITIATIVE PHASE II: West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA. <i>Project Manager.</i> The project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers, and creeks. Mr. Jewell oversees all aspects of engineering analyses pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses and construction testing program recommendations.
10/18-11/21	SP NO. H.003370 / I-220 / I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIR FORCE BASE ACCESS ROAD: Bossier Parish, LA. <i>Project Manager.</i> This was a Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructing an interchange and access road from Interstate 20 in Bossier City, Louisiana. Mr. Jewell managed and oversaw the preparation of the preliminary design and planning report. Mr. Jewell also oversaw the field construction services consisting of PDA monitoring, bi-directional load cell load tests, and settlement monitoring. The PDA program consisted of monitoring PPC piles during initial drive and restrikes to allow for evaluation of setup and early acceptance of pile resistances.
10/15-Ongoing	SP NO. H.013579 / PECUE LANE I-10 INTERCHANGE: East Baton Rouge Parish, LA. <i>Project Engineer.</i> This project consists of twin bridges with MSE wall abutments for both bridges crossing Interstate I-10, a bridge crossing Ward's Creek, and on/off-ramps in south Baton Rouge. Mr. Jewell helped perform analyses including settlement estimates with recommendations for monitoring, driven pile and drilled shaft design including down drag considerations, MSE Wall design, slope stability and pavement section recommendations; all completed according to DOTD standards. Mr. Jewell is currently overseeing the construction phase which includes PDA monitoring, static load testing, and settlement monitoring.
07/15-Ongoing	SP NO. H.004273.5 / I-49 CONNECTOR (LAFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE): Lafayette Parish, LA. <i>Project Manager.</i> The project consists of construction of 5 miles of freeway consisting of a 3.5-mile elevated structure from I-10 to the Airport in Lafayette, LA. Mr. Jewell oversaw the completion of the Phase I geotechnical investigation, which included 116 deep and shallow soil boring, and 15 CPT soundings, and laboratory testing program per LADOTD guidelines. Mr. Jewell oversaw the completion of the Geotechnical Data Report and assisted with technical reviews pertaining to selection of design reaches, geotechnical design of pile and drilled shaft foundations, drivability, slope stability, earth retaining structures, settlement analyses and construction testing program recommendations, including an advanced test pile program. He is currently overseeing development of the Phase 2 field and laboratory program for each segment.
04/14-Ongoing	SP NO. H.004435 / I-12 TO BUSH SEGMENT 2, LA 3241 (LA 36-LA435): St. Tammany Parish, LA. <i>Project Manager.</i> Mr. Jewell oversaw and coordinated the geotechnical investigation which included drilling 32 deep soil borings, 10 culvert borings, and 88 shallow roadway borings, sampling, and laboratory testing along the alignment which includes two bridges: LA 435 over Bayou Lacombe Tributary and LA 36 over Bayou Lacombe Tributary 2. He assisted in developing the geotechnical analyses and design recommendation report which included pile foundations for the bridge structures and shallow foundation design for the culverts. Mr. Jewell oversaw the construction phase which included PDA testing and settlement monitoring.
10/09-Ongoing	SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW: Vicksburg, MS. <i>Project Engineer.</i> Mr. Jewell assisted in several aspects of engineering for this multi-million-dollar, high risk, high technical needs, high visibility project consisting of investigating movement of the I-20 Bridge in Vicksburg, MS. This project consisted of a comprehensive laboratory testing program and refinement of the geotechnical site characterization for the bank/bluff where there was evidence of shifting creating movement in the bridge structure. Mr. Jewell helped managed the field investigations and instrumentation programs, along with review of the field data and engineering reporting.

Firm employed by Ardaman & Associates, Inc.				
Name	Mark Woodward, P.E.		Years of relevant experience with this employer	7
Title	PRINCIPAL ENGINEER		Years of relevant experience with other employer(s)	36
Degree(s) / Years / Specialization			M.S. / 2019 / Risk Management M.S. / 1986 / Civil Engineering B.S. / 1982 / Civil Engineering	
Active registration number / state / expiration date			24206 / LA / 9-30-2027	
Year registered	1991	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Principal Engineer	
	<i>Mr. Woodward served as a geotechnical engineer for 36 years in the geotechnical branch of USACE New Orleans District, retiring as the Deputy Chief of the Geotechnical Branch and Dam and Levee Safety Program Manager. He was responsible for managing all departments in the branch including engineering, drilling, soils laboratory, dredge material testing, concrete testing, and administration. Mr. Woodward has considerable experience designing and managing various types of projects on the Mississippi River, Atchafalaya Basin and Storm Surge Levees in Southeast Louisiana, Mississippi and Texas, as well as mitigation and coastal projects in Louisiana. These projects included design of major foundation elements for dams, earthen levees, hydraulic structures, floodwalls, revetments, channel stabilization, bank degrading, ground improvement, deep excavations, relief wells, wick drains, dewatering systems, seepage and stability berms, preloads, reinforced levees and marsh creation for mitigation, coastal restoration and protection and beneficial use of dredge material in marsh and coastal environments with field investigations requiring use of specialized marine and marsh drilling equipment. Since 2018, Mr. Woodward has served as Principal Geotechnical Engineer of Ardaman for Louisiana, Mississippi, Alabama, Arkansas, and Texas. Mr. Woodward provides oversight and review of design major foundation elements for transportation, industrial, commercial, and municipal projects.</i>			
04/21-01/2025	SP NO. H.013987 / RURAL BRIDGES PHASE I: Claiborne Parish, LA. Principal Engineer. The Rural Bridges project initiative consists of replacing many older bridges throughout the State of Louisiana. Mr. Woodward provided review of the geotechnical design including pile foundations for 3 bridges.			
01/19-12/23	SP NO. H.008226 / CHENIERE SPILLWAY & BRIDGE REPLACEMENT: Ouachita Parish, LA. Principal Engineer. Mr. Woodward served as the Principal Engineer for this project which included the replacement of the current damaged spillway and bridge structure in Ouachita Parish, Louisiana.			
10/18-11/21	SP NO H.003370 / I-220 I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIRFORCE BASE ACCESS ROAD: Bossier Parish, LA. Principal Engineer. This Design Build project consisted of direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and an interchange and access road from Interstate 20 in Shreveport, Louisiana. Mr. Woodward provided quality assurance oversight for this project, reviewing the work during the design and construction phase.			
05/18-08/19	SP NO. H.011152.5 / I-12 WIDENING (US 190 to LA 59): St. Tammany Parish, LA. Principal Engineer. Mr. Woodward provided technical oversight for this project which included the widening of I-12 in St. Tammany Parish. Ardaman conducted a geotechnical investigation which included 23 deep soil borings, sampling, and laboratory testing along the 3-mile alignment between US 190 and LA 59 for lane widening which included four bridges structures. Mr. Woodward provided oversight to perform additional soil borings, lab testing and engineering analyses for a retaining wall for one of the bridge abutments			

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07/23-Ongoing	SP NO. H.012030 / US 371: KCS RAILROAD OVERPASSES HBI: Webster Parish, LA. <i>Principal Engineer.</i> The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Ardaman performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.
05/18-08/19	SP NO. H.011152.5 / I-12 WIDENING (US 190 to LA 59): St. Tammany Parish, LA. <i>Principal Engineer.</i> Mr. Woodward provided technical oversight for this project which included the widening of I-12 in St. Tammany Parish. Ardaman conducted a geotechnical investigation which included 23 deep soil borings, sampling, and laboratory testing along the 3-mile alignment between US 190 and LA 59 for lane widening which included four bridges structures. Mr. Woodward provided oversight to perform additional soil borings, lab testing and engineering analyses for a retaining wall for one of the bridge abutments
05/18-09/19	SP NO. H.001344 / US 190: LA 437 TO USE 190 BUS (PH 1): St. Tammany Parish, LA. <i>Principal Engineer.</i> Mr. Woodward provided technical oversight for this project which includes the widening of US 190 to a four-lane boulevard between US 437 and US 190.
05/18-07/18	IMTT ACCESS ROAD PAVEMENT, AVONDALE: Jefferson Parish, LA. <i>Principal Engineer.</i> Served as senior engineer for 2,200-foot-long x 50 -foot wide rigid and flexible roadway design for AASHTO loading per LADOTD guidelines, including subsurface exploration and testing, California Bearing Ratio, subbase material and thickness recommendations, wearing course thicknesses, and construction recommendations.
06/16-07/16	SOUTHEAST LOUISIANA URBAN FLOOD CONTROL, LOUISIANA AVENUE PAVING: Orleans Parish, LA. <i>Chief of Structural Design.</i> Served as decision maker as Chief of Structural Design, USACE New Orleans, for asphalt or concrete paving, looking at factors such as construction cost, durability, maintenance cycles and costs, constructability, construction duration, etc.
2014-2018	DAM AND LEVEE SAFETY PROGRAM, USACE NEW ORLEANS DISTRICT: LA. <i>Dam and Levee Safety Program Manager.</i> Mr. Woodward served as the USACE New Orleans District Levee Safety Program Manager for over four years, responsible for Levee Evaluation Reports for Levee Certifications and the National Flood Insurance Program, Levee Inspection Reports on over 1300 miles of levee on an annual basis, Risk Assessments and Communication for all levees in the District's jurisdiction. Responsible for final Section 408 permitting approval to ensure that construction activities do not increase risk or diminish function of levees and do not cause harm to the public.
2006	HOMEPLACE LEVEE WITH GROUND IMPROVEMENT, P24: Plaquemines Parish, LA. <i>Lead Geotechnical Engineer.</i> In the aftermath of Hurricane Katrina, Mr. Woodward was assigned to USACE Task Force Guardian as Geotechnical Engineer for Plaquemines Parish to restore levee damage to pre-Katrina conditions. The Homeplace Floodwall had translated due to loading and had to be removed. In order to replace the risk reduction system with an earthen levee, the foundation had to be improved. Using knowledge gained from full scale test section Mr. Woodward had coordinated pre-Katrina for Deep Mixing. Mr. Woodward designed ground improvement and reviewed/ approved all construction submittals and oversaw construction.

Firm employed by NTB Associates, Inc.				
Name	Bryan T. Bunch, PLS		Years of relevant experience with this employer	16.5
Title	Executive Vice President		Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization			B.S. / 1988 / Survey and Land Information Systems, University of Arkansas	
Active registration number / state / expiration date			5014 / Louisiana / 03/31/2026	
Year registered	2009	Discipline	Professional Surveyor	
Contract role(s) / brief description of responsibilities			Mr. Bryan Bunch will serve as Assistant Project Manager for topographic and right-of-way surveying services and mapping during this contract. He will work closely with Mike King and Patrick Staiano for all LaDOTD surveying services . Bryan satisfies MPR No. 10 per the advertisement.	
01/23 – 09/25	LaDOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779) Survey Project Manager directing field crews, file processing, drafting, and submittals for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, QL A, B, C, & D utility designating/locating, and utility coordination services for the design-build project to replace the Jimmy Davis Bridge across the Red River.			
09/20 – 09/25	LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337) Survey Project Manager directing field crews, file processing, drafting, and submittals for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 34 bridge and culvert replacements as a sub to BKL.			
09/20 – 09/25	LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) Survey Project Manager directing field crews, file processing, drafting, and submittals for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 21 bridge and culvert replacements as a sub to Waggoner.			
08/22 – 09/25	Delta Utilities/ CenterPoint Energy, Surveying & SUE Services, Various Parishes, LA (Various Agency Proj. Nos.) Quality Control Surveyor assisting in staffing, coordination, and QA/QC for topographic surveys, property surveys, surveys in support of SUE, title takeoffs, boundary and right-of-way calculations , CADD drawings, and plats for maintenance and construction projects. To date, NTBA has worked on over 100 separate projects stretching from Lake Charles to Lafayette to Shreveport, and along the Northshore of Lake Pontchartrain.			
07/23 – 05/25	LaDOTD IJA Off-System Bridge Program, District 62 (4400025041) Quality Control Surveyor assisted in staffing, coordination, and QA/QC for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, and preliminary and final right-of-way mapping in support of bridge replacements.			
12/24 – 05/25	LaDOTD Contract for Topographic Surveys, Box Culvert Replacements, Tasks Orders 1-4, Evangeline, St. Landry, & Bienville Parishes (4400021975) assisted in the supervision and review of survey data and processing for Static GPS Control surveys, topographic surveys, and surveys in support of QL D subsurface utility record research for preliminary designs of box culvert initiative projects.			
12/17 – 11/24	LaDOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (44-12323, 44-17713, 44-14660 - Multiple TOs) Survey Project Manager directed field crews, file processing, drafting, and submittals for Static GPS Control surveys, topographic surveys, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway.			
04/22 – 04/23	LaDOTD I-20 Monkhouse to I-49, Caddo Parish, LA (4400017713) Survey Project Manager directed field crews, file processing, drafting, and submittals for Static GPS Control, topographic surveys, QL C & D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation.			

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03/21 – 03/22	City-Parish Ward Creek at Siegen Lane, East Baton Rouge Parish, LA (22-DR-US-0013) Survey Project Manager managed field crews and technicians for control, topographic, and property surveys along with QL B, C, and D subsurface utility designating services for approximately 1,500 feet of Ward Creek.
12/20 – 03/21	LaDOTD LA 6: Youngs Bayou Bridge Rehab, Natchitoches Parish, LA (4400017713 & H.013821.5) Assistant Project Manager assisted in the supervision and review of survey data and processing for topographic surveying services .
05/15 – 12/20	City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15) Quality Control Surveyor supervised south LA field crews and technicians for Static GPS Control surveys, topographic, property, and hydrographic surveying services, and QL A, B, C, and D subsurface utility designation/locating for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge.
05/16 – 06/18	LaDOTD LA 675 & LA 87 Improvements in New Iberia, Iberia Parish, LA (4400002562 & 4400006814) Project Manager directed field crews, file processing, drafting, and submittals for topographic surveying services as a sub to Stanley Consultants, Inc.
11/15 – 05/17	Bossier Parish Police Jury, Winfield Road Extension, East/West (LA 3 to Airline Highway) Bossier Parish, LA (DEC 15-11-03) Quality Control Surveyor assisted in staffing, coordination, and QA/QC for control surveys, topographic surveys, property surveys, right-of-way mapping, QL D subsurface utility services, and drainage map preparation as a sub to Denmon (Volkert).
07/16 – 03/17	LaDOTD Bayou Fountain, Route LA 327 Spur (Gardere Lane) East Baton Rouge Parish, LA (4400006527 & H.002337.5) Survey Project Manager directed field crews, file processing, drafting, and submittals for topographic surveys, surveys in support of QL B, C, and D subsurface utility designating, and drainage map preparation for roadway rehabilitation.
10/15 – 07/16	LaDOTD MacArthur Interchange Completion (Phase II) Route US 90-Z, Jefferson Parish, LA (4400005142 & H.011309.5) Project Manager directed field crews, file processing, drafting, and submittals for topographic surveying services as a sub to SDR Engineering.
04/15 – 02/16	LaDOTD I-20 (Airline Drive to I-220) Route I-20, Bossier Parish, LA (4400005532 & H.011319.5) Assistant Project Manager supervised south LA crew members and technicians for topographic surveying services .
05/13 – 10/15	Bossier Parish Police Jury, Kingston Road Improvements and Development, Bossier Parish, LA (Agency Proj. No. Unknown) Quality Control Surveyor assisted in staffing, coordination, and QA/QC for topographic surveys, property surveys, final right-of-way mapping, and drainage map preparation for the use in engineering plan and specifications.
04/15 – 09/15	LaDOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA (4400001798 & H.011094.5) Quality Control Surveyor assisted in staffing, coordination, and QA/QC for topographic surveys, drainage map preparation, and surveys in support of QL B subsurface utility designating for bridge rehabilitation.
02/14 – 03/15	LaDOTD Earhart Expressway Extension to US 61, Route LA 3139, Jefferson Parish, LA (H.004367.5) Project Manager directed survey crews, file processing, drafting, and submittals for topographic surveys for an overpass connection, relocation of existing lanes, and construction of additional lanes as a sub to AECOM.
07/12 – 01/14	LaDOTD I-10 Loyola Ave. to Williams Blvd., Jefferson Parish, LA (H.003074.5 & H.009087.5) Project Manager directed survey crews, file processing, drafting, and submittals for topographic surveys for interstate rehabilitation as a sub to GEC, Inc.
07/12 – 06/13	LaDOTD I-10 Williams Blvd. to Veterans Blvd., Jefferson Parish, LA (H.003074.5 & H.009087.5) Project Manager directed survey crews, file processing, drafting, and submittals for topographic surveys for interstate rehabilitation as a sub to GEC, Inc.
07/10 – 10/12	LaDOTD LA 42 Widening and Improvements District 61, Ascension Parish, LA (700-03-0125 & 701-65-1538) Project Surveyor directed topographic and property surveys and title work to locate all existing structures within 50 feet of proposed right-of-way . Bryan also managed the preparation of right-of-way acquisition maps for 165 parcels.

Firm employed by NTB Associates, Inc.				
Name	Mike J. King, PLS		Years of relevant experience with this employer	19
Title	Vice President		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization			B.S. / 2012 / Construction Management, Louisiana State University	
Active registration number / state / expiration date			5127 / Louisiana / 09/30/2027	
Year registered	2015	Discipline	Professional Surveyor	
Contract role(s) / brief description of responsibilities			Mr. Mike King will serve as Project Manager for topographic surveying services during this contract. He'll manage field crews, file processing, drafting, and submittals. Mike has over 20 years of surveying experience.	
01/23 – 09/25	LaDOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779) Assistant Project Manager assisting in the management of field crews and technicians for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, QL A, B, C, & D utility designating/locating, and utility coordination services for the design-build project to replace the Jimmy Davis Bridge across the Red River.			
08/21 – 09/25	LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337) Assistant Project Manager assisting in the management of field crews and technicians for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 34 bridge and culvert replacements as a sub to BKL.			
04/21 – 09/25	LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) Assistant Project Manager assisting in the management of field crews and technicians for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 21 bridge and culvert replacements as a sub to Waggoner.			
08/22 – 09/25	Delta Utilities/ CenterPoint Energy, Surveying & SUE Services, Various Parishes, LA (Various Agency Proj. Nos.) Quality Control Surveyor assisting in staffing, coordination, and QA/QC for topographic surveys, property surveys, surveys in support of SUE, title takeoffs, boundary and right-of-way calculations, CADD drawings, and plats for maintenance and construction projects. To date, NTBA has worked on over 100 separate projects stretching from Lake Charles to Lafayette to Shreveport, and along the Northshore of Lake Pontchartrain.			
12/24 – 05/25	LaDOTD Contract for Topographic Surveys, Box Culvert Replacements, Tasks Orders 1-4, Evangeline, St. Landry, & Bienville Parishes (4400021975) Project Manager directing field crews, file processing, drafting, and submittals for Static GPS Control surveys, topographic surveys, and surveys in support of QL D subsurface utility record research for preliminary designs of box culvert initiative projects.			
12/17 – 11/24	LaDOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (44-12323, 44-17713, 44-14660 - Multiple TOs) Assistant Project Manager assisted in the management of field crews and technicians for topographic surveys, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway.			
04/22 – 04/23	LaDOTD I-20 Monkhouse to I-49, Caddo Parish, LA (4400017713) Assistant Project Manager assisted in the management of field crews and technicians for Static GPS Control, topographic surveys, QL C & D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation.			
03/21 – 03/22	City-Parish Ward Creek at Siegen Lane, East Baton Rouge Parish, LA (22-DR-US-0013) Quality Control Surveyor reviewed and processed data for control, topographic, and property surveys along with surveys in support of QL B, C, and D subsurface utility designating services.			

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12/20 – 03/22	LaDOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA (4400017713) Assistant Project Manager assisted in the management of field crews and technicians for topographic surveys and surveys in support of QL C & D subsurface utility designating for bridge repair/ rehabilitation.
05/15 – 12/20	City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15) Quality Control Surveyor reviewed data and drafting for Static GPS Control surveys, topographic, property , and hydrographic surveying services, and QL A, B, C, and D subsurface utility designation/locating for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge.
07/16 – 03/17	LaDOTD Bayou Fountain, Route LA 327 Spur (Gardere Lane) East Baton Rouge Parish, LA (4400006527 & H.002337.5) Assistant Project Manager assisted in the management of survey crews and technicians for topographic surveys, surveys in support of QL B, C, and D subsurface utility designating , and drainage map preparation for roadway rehabilitation.
04/15 – 02/16	LaDOTD I-20 (Airline Drive to I-220) Bossier Parish, LA (4400005532 & H.011319.5) Quality Control Surveyor reviewed data and drafting for topographic surveys for interstate rehabilitation.
05/13 – 10/15	Bossier Parish Police Jury, Kingston Road Improvements and Development, Bossier Parish, LA (Proj. No. Unknown) Sr. Party Chief/ Technician ran a field crew and downloaded data for topographic surveys, property surveys, final right-of-way mapping, and drainage map preparation for the use in engineering plan and specifications.
04/15 – 09/15	LaDOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA (4400001798 & H.011094.5) Quality Control Surveyor reviewed data and drafting for topographic surveys, drainage map preparation, and surveys in support of QL B subsurface utility designating for bridge rehabilitation.
02/14 – 03/15	LaDOTD Earhart Expressway Extension to US 61, Route LA 3139, Jefferson Parish, LA (H.004367.5) Sr. Survey Party Chief/Tech. ran a field crew and processed data for topographic surveying services for an overpass connection, relocation of existing lanes, and construction of additional lanes as a sub to AECOM
07/12 – 01/14	LaDOTD I-10 Loyola Ave. to Williams Blvd., Jefferson Parish, LA (H.003074.5 & H.009087.5) Sr. Survey Party Chief/Tech. managed a survey crew and processed data for topographic surveys for interstate rehabilitation as a sub to GEC, Inc.
07/12 – 06/13	LaDOTD I-10 Williams Blvd. to Veterans Blvd., Jefferson Parish, LA (H.003074.5 & H.009087.5) Sr. Survey Party Chief/Tech. ran a field crew and processed data for topographic surveys, QL B, C, and D subsurface utility designating, and surveys in support of QL A, B, C, and D subsurface utility designating/ locating for interstate rehabilitation as a sub to GEC, Inc.
07/10 – 10/12	LaDOTD LA 42 Widening and Improvements, District 61, Ascension Parish, LA (700-03-0125 & 701-65-1538) Survey Party Chief/ Technician ran a field crew and processed data for topographic and property surveys in support of base and final right-of-way mapping, and title work.
02/11 – 08/11	LaDOTD I-20 Rehabilitation Westerfield Avenue to Industrial Drive, District 04, Bossier Parish, LA (H.003860.5 & 700-99-0525) Survey Party Chief/Tech. managed a survey crew and processed data for topographic surveys for interstate rehabilitation.
09/09 – 03/10	LaDOTD Lawrence, Bogalusa, and Coburn Creek Bridges, Route LA 10, Washington Parish, LA (700-99-0484 & 701-65-1347) Survey Party Chief/ Technician ran a field crew and processed data for topographic and property surveys in support of title work, title updates, title take-offs, and right-of-way map preparation.

Firm employed by NTB Associates, Inc.				
Name	Patrick C. Staiano, PLS		Years of relevant experience with this employer	5.5
Title	Staff Surveyor		Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization			B.S. / 2008 / Construction Management, Louisiana State University / ATSSA TCS	
Active registration number / state / expiration date			5130 / Louisiana / 09/30/2027	
Year registered	2015	Discipline	Professional Surveyor	
Contract role(s) / brief description of responsibilities			Mr. Patrick Staiano, PLS will serve as the Project Manager for property surveys and right-of-way mapping during this contract. He will manage field crews, technicians, data processing, drafting, review and certification of maps and surveys, and submittals. Patrick has over 15 years of surveying experience.	
09/24 – 09/25	LaDOTD IDIQ Contract for Professional Boundary Surveying Services, LA (4400027918) Project Manager directing field crews, file processing, drafting, and submittals for topographic surveys and property surveys in support of title take-offs, description preparations, preliminary and final right-of-way mapping in support of roadway design improvements.			
01/23 – 09/25	LaDOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779) Assistant Project Manager assisting in the management of field crews, file processing, drafting, and submittals for Static GPS control surveys, topographic surveys, property surveys, surveys in support of QL B, C, and D subsurface utility designating, title take-offs, legal description preparation, and preliminary and final right-of-way mapping for the design-build project to replace the Jimmy Davis Bridge across the Red River as a sub-consultant to James Construction.			
09/22 – 09/25	LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337) Assistant Project Manager assisting in the management of field crews, file processing, drafting, and submittals for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparations, and preliminary and final right-of-way mapping for 34 bridge and culvert replacements including surveying all sub-surface drainage structures as a sub-consultant to BKI.			
09/22 – 09/25	LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) Assistant Project Manager assisting in the management of field crews, file processing, drafting, and submittals for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparations, and preliminary and final right-of-way mapping for 21 bridge and culvert replacements including surveying all sub-surface drainage structures as a sub-consultant to Waggoner.			
09/22 – 09/25	Delta Utilities/ CenterPoint Energy, Surveying & SUE Services, Various Parishes, LA (Various Agency Proj. Nos.) Assistant Project Manager assisting in the management of field crews, file processing, drafting, and submittals for topographic surveys, property surveying services, surveys in support of SUE, title research, title take-offs, boundary and right-of-way calculations, and reviews of CADD drawings and plats for maintenance and construction projects.			
09/22 – 09/25 03/18 – 02/21	Apache Corporation, Infrastructure Improvements, Permian Basin, Reeves Counties, TX (Agency Proj. Nos. Unknown) Project Manager managing property surveying services and right-of-way acquisition mapping for approximately 84 miles of infrastructure improvements. Patrick has prepared approximately 131 property acquisition plats for this project.			
09/22 – 09/25 03/18 – 02/21	Targa Pipeline, Natural Gas Gathering System, Howard and Martin Counties, TX (Agency Proj. Nos. Unknown) Quality Control Surveyor reviewing drafting and property acquisition plats as well as assisting with management of property surveying services . Patrick has prepared approximately 250 property acquisition plats for this project.			
07/23 – 05/25	LaDOTD IJA Off-System Bridge Program, District 62 (4400025041) Project Manager directing field crews, file processing, drafting, and submittals for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, and preliminary and final right-of-way mapping in support of bridge replacements.			

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03/21 – 08/22	MOVEBR Jefferson Hwy. at Bluebonnet Intersection Improvements, LA (City Parish No. 20-CP-HC-0046) Project Manager managed field crews and technicians for topographic surveys, property surveys, and right-of-way mapping.
03/20 – 02/21	UPRR Big Sandy Siding Survey, Upshur and Wood Counties, TX (29543/90502) Assistant Project Manager performed property surveying services for 15 parcels along railroad consisting of approximately 3.24 miles of track to establish the existing railroad right-of-way . Prepared 8 ALTA Surveys along with the privately owned parcels for acquisition, 0.25-acre acquisition parcel in the right-of-way, and an overall right-of-way strip map.
09/19 – 02/20	DCP Midstream, MaBee Ranch Line Locates, Martin and Andrews Counties, TX (19-056-001) Project Manager managed property surveying services in support of property acquisition services for 32 individual pipelines totaling approximately 22 miles.
03/18 – 10/18	Rogillio Resubdivision, East Baton Rouge & East Feliciana Parishes, LA (Agency Proj. No. Unknown) Assistant Project Manager performed title take-offs, boundary, and right-of-way calculations , and reviewing CADD drawings and plats for resubdivision services for 93 acres.
04/17 – 03/18	LaDOTD LA 653 Bayou Dumar Bridge Replacement, Lafourche Parish, LA (H.008118) Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.5-mile project.
01/17 – 03/18	LaDOTD LA 450 Stoney Point Bridge Replacement, Washington Parish, LA (Proj. No. Unknown) Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys and prepared title work info and right-of-way maps for a +/-0.25-mile project.
09/17 – 01/18	LaDOTD LA 1026: Roundabout at Buddy Ellis Rd., Livingston Parish, LA (H.011824) Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.3-mile project.
10/17 – 12/17	LaDOTD US 190B Jefferson Ave. Roundabout Covington, St. Tammany Parish, LA (H.011260) Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.1-mile project.
06/17 – 10/17	LaDOTD LA 22: Near I-10 Geometric Improvements, Ascension Parish, LA (H.011314) Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.75-mile project.
05/17 – 09/17	LaDOTD LA 59: Roundabout @ Lonesome Rd., Tangipahoa Parish, LA (H.011030) Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.5-mile project.
03/16 – 08/17	LaDOTD LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish, LA (H.010184) Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.75-mile project.
03/17 – 07/17	LaDOTD LA 1042: Bridges Near Greensburg, St. Helena Parish, LA (H.008312) Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/- 2-mile project.
03/16 – 02/17	LaDOTD LA 22 Roundabout @ Dunson Rd., Tangipahoa Parish, LA (Proj. No. Unknown) Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/- 0.25-mile project.
03/16 – 01/17	LaDOTD LA 1024 Near Friendship, Livingston Parish, LA (Proj. No. Unknown) Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed property surveys, prepared title work info, and right-of-way maps for a +/-0.5-mile project.

Firm employed by NTB Associates, Inc.				
Name	Grant H. Gilleon, PLS		Years of relevant experience with this employer	16.5
Title	Vice President		Years of relevant experience with other employer(s)	20
Degree(s) / Years / Specialization			B.S. / 1987 / Construction Engineering Technology, University of Southern Mississippi	
Active registration number / state / expiration date			4976 / Louisiana / 03/31/2026	
Year registered	2007	Discipline	Professional Surveyor	
Contract role(s) / brief description of responsibilities			Mr. Grant Gilleon will serve as Quality Control Surveyor for topographic and right-of-way surveying services during this contract. He'll assist in the review of survey data and staffing logistics.	
01/23 – 09/25	LaDOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779) Quality Control Surveyor assisting in staffing and coordination for Static GPS control surveys, topographic surveys, property surveys, title take-offs, description preparations, and preliminary and final right-of-way mapping for the design-build project to replace the Jimmy Davis Bridge across the Red River as a sub to James Construction.			
08/22 – 09/25	Delta Utilities/ CenterPoint Energy, Surveying & SUE Services, Various Parishes, LA (Various Agency Proj. Nos.) Project Manager directing field crews and technicians for topographic surveys, property surveys, surveys in support of SUE, title takeoffs, boundary and right-of-way calculations, CADD drawings, and plats for maintenance and construction projects. To date, NTBA has worked on over 100 separate projects stretching from Lake Charles to Lafayette to Shreveport, and along the Northshore of Lake Pontchartrain.			
04/21 – 09/25	LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) Quality Control Surveyor assisting in staffing and coordination for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 21 bridge and culvert replacements as a sub to Waggoner.			
08/21 – 09/25	LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337) Quality Control Surveyor assisting in staffing and coordination for Static GPS Control surveys, topographic surveys, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 34 bridge and culvert replacements as a sub to BKL.			
12/24 – 05/25	LaDOTD Contract for Topographic Surveys, Box Culvert Replacements, Tasks Orders 1-4, Evangeline, St. Landry, & Bienville Parishes (4400021975) Quality Control Surveyor assisting in staffing and coordination for Static GPS Control surveys, topographic surveys, and surveys in support of QL D subsurface utility record research for preliminary designs of box culvert initiative projects.			
12/17 – 11/24	LaDOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (44-12323, 44-17713, 44-14660 - Multiple TOs) Quality Control Surveyor assisting in staffing and coordination for topographic surveys, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway.			
05/15 – 11/24	City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15) Project Manager directing field crews, file processing, drafting, and submittals for Static GPS Control, topographic, property, and hydrographic			

Huval and Associates, Inc.

	surveying services, and QL A, B, C, and D subsurface utility designation/locating for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge.
04/22 – 04/23	LaDOTD I-20 Monkhouse to I-49, Caddo Parish, LA (4400017713) Quality Control Surveyor reviewing data and deliverables for Static GPS Control, topographic surveys, QL C & D subsurface utility services , drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation.
07/21 – 02/22	LaDOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA (4400017713) Quality Control Surveyor reviewing data and deliverables for topographic surveys and surveys in support of QL C & D subsurface utility designating for bridge repair/ rehabilitation.
05/21 – 12/21	Bossier Parish Police Jury, Linton Road Cutoff Intersection Redesign, Bossier Parish, LA (BPPJ 2021-126) Project Manager directed field crews for control surveys, topographic surveys, and property surveys in support of an evaluation to improve the intersection and produce a preliminary layout for a new intersection design.
09/20 – 01/21	LaDOTD LA 6: Youngs Bayou Bridge Rehab, Natchitoches Parish, LA (4400017713 & H.013821.5) Quality Control Surveyor reviewing data and deliverables for topographic surveys for bridge rehabilitation.
11/15 – 05/17	Bossier Parish Police Jury, Winfield Road Extension, East/West (LA 3 to Airline Highway) Bossier Parish, LA (DEC 15-11-03) Project Manager directed field crews, file processing, drafting, and submittals for control surveys, topographic surveys, property surveys, right-of-way mapping, QL D subsurface utility services , and drainage map preparation as a sub to Denmon (Volkert).
04/15 – 02/16	LaDOTD I-20 (Airline Drive to I-220) Route I-20, Bossier Parish, LA (4400005532 & H.011319.5) Project Manager directed field crews, file processing, drafting, and submittals for topographic surveys and surveys in support of QL B, C, and D subsurface utility designating for interstate rehabilitation.
10/15 – 12/15	LaDOTD Caddo Lake Bridge, Route LA 1 Caddo Parish, LA (H.01166.5) Project Manager directed field crews, file processing, drafting, and submittals for topographic surveys performed along a portion of the existing route of LA Hwy. 1 for a proposed bridge replacement at the intersection of Caddo Lake and LA Hwy. 1 in Caddo Parish east of Mooringsport.
05/13 – 10/15	Bossier Parish Police Jury, Kingston Road Improvements and Development, Bossier Parish, LA (Agency Proj. No. Unknown) Project Manager directed field crews, file processing, drafting, and submittals for topographic surveys, property surveys, final right-of-way mapping , and drainage map preparation for the use in engineering plan and specifications.
04/15 – 09/15	LaDOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA (4400001798 & H.011094.5) Project Manager directed field crews, file processing, drafting, and submittals for topographic surveys, drainage map preparation, and surveys in support of QL B subsurface utility designating for bridge rehabilitation.
03/08 – 05/15	Bossier Parish Police Jury, Hamilton Road Improvements (I-20 to Benton Road) Bossier Parish, LA (H.003849 & 700-08-0123) Project Manager directed field crews, file processing, drafting, and submittals for topographic surveys, property surveys, and final right-of-way mapping for roadway rehabilitation.
12/12 – 12/12	LaDOTD I-49 Survey Subsurface Utilities, Caddo Parish, LA (H.00388.5) Project Manager directed field crews, file processing, drafting, and submittals for topographic surveys and surveys in support of QL A subsurface utility locating for interstate rehabilitation.

Firm employed by Vectura Consulting Services, LLC				
Name	Sheelagh Brin Ferlito, PE, PTOE		Years of relevant experience with this employer	10
Title	Supervisor-Eng		Years of relevant experience with other employer(s)	27
Degree(s) / Years / Specialization			B.S. / 1988 / Civil Engineer	
Active registration number / state / expiration date			PE. 0025383 / LA 09/30/2027	
Year registered	1993	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Traffic Signal Design Supervisor	
07/21 - current	H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge, LA) Brin is the task leader for Vectura for the Construction Engineering and Inspection of 24 traffic signals . Brin oversaw the review of signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Brin and Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.			
07/19 – current	MOVEBR New Capacity Projects Program Management (Baton Rouge, LA) Brin is the lead traffic engineer for entire the New Capacity Projects program management team. All traffic engineering scope of services, traffic / speed data collection, traffic design studies, safety studies, and traffic signal design plans are reviewed by Brin. She is in constant communication with the Traffic Engineering staff of DOTD and EBR Traffic Engineering Department. She understands the current requirements for all aspects of traffic engineering projects.			
07/19 – current	H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP (Belle Chasse, LA) Brin is the project manager for the temporary and permanent traffic signal plans for the intersections of LA 23 at Burmaster St and at Engineers Rd. She based her traffic signal plans on design year volumes that were developed using growth rates from the New Orleans Regional Planning Commission Travel Demand Model. This project is the first ever Public-Private-Partnership performed by DOTD.			
09/20 – 12/21	H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish, LA) Brin is the project manager for the design of temporary traffic signal plans that will be implemented during the roundabout construction along LA 30 in Gonzales, LA. The project involves replacing three existing signalized intersections with multilane roundabouts along LA 30 at I-10 Interchange ramps and at Tanger Boulevard. Vectura also developed signal timing plans for each phase of the construction to maintain progression along LA 30.			
07/18 – 04/19	LA 1 Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Design West Baton Rouge Parish, Addis, LA Brin developed a Pedestrian Crosswalk Study and Traffic Signal Construction Plans for the intersection of LA 1 at LA 990 in Addis, LA. The study was based on DOTD Traffic Engineering Manual Crosswalk Guidelines followed by traffic signal design plans based on DOTD requirements. The study included traffic and pedestrian traffic data collection, a speed study, crash analyses, intersection analyses and progression analyses . The signal plans included pedestrian signal equipment, signal timing parameter calculations, crosswalk striping, signs, DOTD pay items, estimated quantities, and construction cost. Brin also assisted with the Parish with the DOTD Permit Request for Intersection Control Devices on a State Right of Way.			
09/17-04/18	US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Equipment Design Slidell, LA Brin developed a formal traffic study for a proposed crosswalk with pedestrian traffic signal equipment and pedestrian clearance timings based on DOTD requirements. Brin assisted with vehicle and pedestrian data collection, spot speed study, analyzed 3-year intersection crash data and developed signal timing for pedestrians to cross the street . From the design study, a set of Traffic Signal Modification Plans were developed to implement the recommended alternative.			
08/15-05/17	Enhancing Guidance for Evacuation Time Estimate Studies (Nuclear Regulatory Commission Rockville, MD) Brin conducted an applied research study of U.S. Nuclear Regulatory Commission guidance for developing evacuation time estimate studies and produced a technical basis for revision of NUREG/CR-7002 “Criteria for Development of Evacuation Time Estimate Studies” in support of the 2020 update of ETES. Specifically, Brin was the lead VISSIM modeler for the “large” population models, which consisted of a 20-mile radius			

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	model. The VISSIM model input included traffic volumes distributed over 8 hours, highway and intersection lane geometry using links and connectors, conflict areas, traffic signal and stop control and speed. Brin also developed Dynamic Traffic Assignment code to simulate that fastest route out of the evacuated zone.
04/14 – 12/14	H.002301 Signal Design for N. Sherwood Forest Dr. Widening Project (Baton Rouge, LA) As the project engineer, Brin was in responsible charge for data collection and design for three signalized intersections as part of a road widening project as per EBR DPW and DOTD requirements. Ms. Ferlito developed the traffic signal equipment, signal timing and communication construction plans, special provision specifications, quantities, and cost estimate. She also performed tasks to develop the striping plans and sequence of construction plans which included temporary signal equipment placement due to lane shifts during construction.
07/12-03/14	EBR 03-TS-CI-0026 CE&I for EBR Traffic Signal Systems Jefferson Highway Construction (Baton Rouge, LA) Brin was the Project Resident Engineer on behalf of EBR for performing CE&I services for the construction of 11 traffic signals . She maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into interstate I-12 fiber backbone and ATM / EOC building. She processed all monthly tasks in EBR formats as well as all items on the EBR project closeout checklist.
07/08-09/09	SPN 013-05-0043 CE&I for EBR Traffic Signal Systems Phase IV Construction (Baton Rouge, LA) Brin was the Project Resident Engineer for DOTD and EBR to perform CE&I services for the construction of 21 traffic signals . She developed the project Sample Plan, maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, coordinated concrete sampling for DOTD Materials Lab, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into Airline Highway fiber backbone and ATM / EOC building. She processed all monthly tasks electronically in DOTD Site Manager and in EBR required formats as well as all items on the DOTD Project Closeout Checklist including the 2059 Report.
09/13 – 04/14	S.P. 700-99-0477 Jefferson Hwy. Signal Design (Baton Rouge, LA) Ms. Ferlito designed traffic signal plans for 11 intersections along Jefferson Highway between College Drive and the I-12 On Ramp in Baton Rouge. Design included traffic data collection, traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout . Design also included traffic signal synchronization signal timing and pedestrian signal timing. She prepared estimated quantities, preliminary and final signal construction plans, and specifications.
03/05 – 11/05	Airline Hwy Widening SPN 700-99-0332 (Baton Rouge, LA) Brin designed 8 traffic signals as part of the Airline Hwy. widening project in Baton Rouge. Her design included traffic data collection, traffic signal equipment, signal synchronization timing, fiber communication, storage length calculations based on queues analyses, special provision specifications, quantities, and cost estimate . This project included fiber design to be the first Baton Rouge project to connect video surveillance images and traffic controller information to the ATM / EOC.
02/03 – 01/04	EBR Traffic Signal Systems Phases IV and V SPN 700-17-0172 (Baton Rouge, LA) Brin was the project engineer for the design of 66 signalized intersections on eight arterials in Baton Rouge which included traffic data collection, traffic signal equipment, pedestrian crosswalk equipment, emergency vehicle and railroad preemption equipment, fiber interconnect equipment as well as traffic signal synchronization. Brin prepared traffic signal construction plans, estimated quantities, and specifications.

Firm employed by Vectura Consulting Services, LLC				
Name	Laurence Lucius Lambert, II, PE, PTOE, PTP		Years of relevant experience with this employer	10
Title	Supervisor-Eng		Years of relevant experience with other employer(s)	18
Degree(s) / Years / Specialization			B.S./1997/Civil Engr. M.S./2006/Civil Engr. (Transportation focus) M.B.A./2010	
Active registration number / state / expiration date			PE.0029901 / LA / 3/31/2026	
Year registered	2001	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Traffic Management Plan Supervisor	
12/23 – 08/24	H.972501.1 South Range Road Operations Study Stage 0 Feasibility Study (Tangipahoa Parish, LA) Laurence was the Principal in Charge for a Stage 0 for the Regional Planning Commission (RPC) to evaluate operating conditions of the S. Range Road corridor that included the intersection with Old Covington Highway. The corridor study included traffic data collection, pedestrian / bicycle counts, safety analysis, existing conditions analysis and alternative analysis. The results were summarized in a Stage 0 report.			
05/23 – 05/24	US 190B/Fremaux Ave Sidewalk Feasibility Study (Slidell, LA) Laurence was the principal in charge for a sidewalk feasibility study that included data collection, safety analysis, alternative analysis, and a final report.			
07/23 – 11/23	H.015504.5 CCC Decorative Lighting Level 4 TMP (New Orleans, LA) Laurence was the project manager for a Level 4 Traffic Management Plan (TMP) for the Crescent City Connection (CCC). Laurence oversaw the lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any “hot spots”. The results were summarized in a report that was reviewed by DOTD.			
04/23 – 10/23	H.014591.5 I-12: US 61 Bridges Girder Repairs (Baton Rouge, LA) Laurence was the project manager for a Level 2 TMP for the interchange of I-12 at US 61. Laurence performed QA/QC for a lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any “hot spots” where Laurence also performed QA/PC. The results were summarized in a report that was reviewed by DOTD.			
04/18 – 12/21	H.010960.5 LA 30 Roundabouts at Tanger & I-10 Gonzales (Ascension, LA) Laurence provided a Quality Control review of the temporary construction and sequence of construction plans . Vectura also provided Quality Control review of signing and striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.			
01/23 – 02/24	H.011504 Alexandria ITS Phase 2 Laurence was the project manager for a System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan for the Alexandria area.			
10/21—03/22	H.013256.5 I-10 ITS Scott to Lake Charles (Lead Traffic Engineer) Laurence was the lead traffic engineer for a Level 2 Traffic Management Plan (TMP) for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CAT Scan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis and public information strategies.			
09/20-04/21	MOVEBR LA 67 (Plank Road) Enhancement Project (Baton Rouge, LA) - Laurence was the project manager to enhance transit, bicycle, and pedestrian mobility on Plank Road that required both City-Parish and DOTD approval. Laurence evaluated the proposed pedestrian crossings on LA 67 using the DOTD Traffic Engineering Manual pedestrian warrants found in Section 3B.2. Laurence also developed traffic operations evaluation of the traffic study which included traffic signal timing evaluations.			
02/20 – 09/21	College Drive Corridor Enhancement from Perkins Road to I-10 (Baton Rouge, LA) Laurence was the project manager to develop Chapter 1 (Data Collection), Appendix A (Initial Data Collection), and Appendix B (Final Data Collection) for proposed improvements College Drive. Since the I-10 interchange was included in the study, approval from DOTD was required . Vectura collected, turning movement counts, 85% speed data, travel time runs, queue measurements, field observations, verification of Traffic Signal Inventories, and bicycle / pedestrian / transit observations.			

10/17-10/18	H.013025 LA 182 (University Avenue) Corridor Planning Study (Lafayette, LA) Laurence was the lead transportation engineer for a Corridor Planning Study for LA 182. The scope focused on improving safety and mobility for pedestrian, bicycle, and transit users. Laurence collected AM & PM peak vehicle turning movement counts as well as pedestrian and bicycle counts. Laurence coordinated with the Acadiana Planning Commission to develop growth rates and design year volumes . Laurence then performed Highway Capacity Manual analysis for 5 intersections along the intersection analyses for the signalized and roundabout controlled alternatives. Included in the study was a safety analyses of five intersections and the intermediate segments. Based on the results of the safety analysis, Laurence provided design criteria to the design team for improving safety of pedestrians, bicycles, and vehicles.
02/17-10/17	Judge Tanner Boulevard at N. Causeway Roundabout Study (St. Tammany Parish, LA) - Laurence performed a Stage 0 Feasibility Study for Roundabouts at 4 intersections in Mandeville area. The scope was developed based on EDSMs VI.1.1.1 / VI.1.1.5 and DOTD Traffic Engineering Manual (TEM) Section 20.2. Laurence, along with Brin, collected 7-day, 24-hour counts w/ Classification on mainlines, turning movement counts for morning and evening peak periods and speed data for mainlines. Once the traffic data was collected, Laurence performed traffic signal warrants analyses, performed a Sidra unsignalized, signalized, and roundabout analyses for years 2020 and 2040, AM & PM peak hours. Laurence developed a report that captured all the results.
01/17-07/17	Minnesota Park Road Improvements Traffic Study (Tangipahoa Parish, LA) Laurence was the task leader for a traffic data collection and intersection analyses of a Stage 0 Feasibility study for Minnesota Park Road in Hammond, LA. Laurence utilized Sidra software to perform a roundabout alternative. The DOTD procedures for utilizing Sidra were followed for this project.
09/16 - 04/17	H.004957.5 I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study (St. Tammany Parish, LA) Laurence was the lead traffic engineer for a DOTD traffic study for the new LA 3241 alignment with the purpose of obtaining both existing and projected future traffic variables in accordance with standard operating procedures typically performed in these types of analyses. Laurence worked closely with the NORPC and District 62 to develop design year volumes using data the TransCAD model. The traffic study examined concepts that improved the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management. Laurence, along with Brin, collected 7-day, 24-hour counts w/ classification on mainlines, turning movement counts for morning and evening peak periods and speed data for mainlines. Laurence also developed a VISSIM traffic simulation model of the preferred alternative.
06/12-12/12	Ramp Metering Study of I-10 Segment, East Baton Rouge and Ascension Parishes, Louisiana (Project Manager) Laurence conducted a feasibility study to deploy ramp meters along the Interstate 10 (I-10) Corridor in Baton Rouge between Dalrymple Drive and LA 73. The study consisted of analyzing 17 on-ramps under differing design conditions, which include the following: 2010 Existing, 2012 Without Ramp Meter, 2012 Ramp Meter, and 2012 Ramp Meter with Recommendations. Laurence's role in this project as project manager was to oversee all QA / QC measures and interpret the results from the model. Laurence coordinated with the local agencies to obtain all current proposed projects in the area, which included DOTD I-10 Widening Project Phases 1 and 2, the Green Light Plan (GLP) Essen Lane Widening Project, and the GLP Highland Road Widening Project.
03/10 - 11/11	S.P. No. 700-09-0171 Stage 0 and 1 Study I-49 Inner City Connector (Shreveport, LA) This 3.5-mile route will connect existing I-49 / I-20 interchange to the proposed I-49 / I-220 interchange. After completing the Stage 0 , Laurence was the project manager for the traffic analyses for the EA phase. The total traffic analyses effort included over 30 TransCAD Models, 20 interchanges and 70 intersections. Analyses included signalized and unsignalized intersections, basic freeway segments, freeway merge / diverge segments and freeway weaving segments at the studied intersections and interchanges. This project included performing both Interchange Modifications Reports (IMRs) and Interchange Justification Reports (IJRs).
04/04 - 12/04	I-10 Frontage Roads, Picardy Interchange, Bluebonnet Siegen (Baton Rouge, LA) Laurence provided the traffic analysis for a highly unique reconfiguration of interstate ramps that included frontage roads and an overpass of I-10 for new an interchange at Picardy. HCS and VISSIM were the primary analysis tools for the analysis. As part of the design team that developed the concept for this project, Laurence performed feasibility studies, developed design criteria, and coordinated with city, state and federal agencies for approvals as well as gathered public input. Laurence prepared traffic signal timings and designs that included cost estimates for the project.

Firm employed by Vectura Consulting Services, LLC				
Name	Kristen Farrington, PE, PTOE, RSP1		Years of relevant experience with this employer	4
Title	Engineer		Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization			B.S. / 2014 / Civil Engr.	
Active registration number / state / expiration date			PE.0042785 / LA / 3/31/2027	
Year registered	2018	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Traffic Management Plan Lead	
12/23 – current	H.972501.1 South Range Road Stage 0 (Tangipahoa Parish, LA) Kristen was the project manager for a Stage 0 project to improve operations on South Range Road. The project included data collection, existing conditions analysis, safety analysis, and alternatives development.			
05/23 – 05/24	US 190B/Fremaux Ave Sidewalk Feasibility Study (Slidell, LA) As a subconsultant to Richard C. Lambert Consultants, LLC, Laurence was the project manager for a sidewalk feasibility study that included data collection, safety analysis, alternative analysis, and final report.			
07/23 – 11/23	H.015504.5 CCC Decorative Lighting Level 4 TMP (New Orleans, LA) Kristen was the project traffic lead for a Level 4 Traffic Management Plan (TMP) for the Crescent City Connection (CCC). Kristen calculated the lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any “hot spots”. The results were summarized in a report that was reviewed and approved by DOTD.			
04/22 – 11/23	H.013267 Capital Area Pathways Project (Baton Rouge, LA) Kristen is the lead designer for four pedestrian hybrid beacons (PHB’s) with two crossings located on state routes. The locations were approved in a previous study and are now under design for construction. Kristen is working closely with the City and DOTD on the construction plan development as PHB’s are a new traffic control device for DOTD. Prior to the design of the PHB’s, Kristen prepared a traffic study evaluating all six uncontrolled crosswalks along the path, which included data collection and determining the appropriate treatment for each crossing location based on FHWA, DOTD and MUTCD guidance.			
09/17 – 09/18	H.011160 LA 73 Corridor Study Stage 0 (LA 74 to LA 621) (Ascension Parish) Kristen was the designer responsible for concept development, report writing, and impact analysis for a Stage 0 study. The purpose of the study was to evaluate conceptual alternatives to improve capacity and operations along the LA 73 corridor and its connecting transportation network. The scope included the evaluation of three interchange configurations for the interchange of I-10 at LA 73 in conjunction with two corridor alternatives for LA 73, resulting in six different alternatives for which line and grade, impacts, and high-level cost estimates were prepared.			
04/18 – 04/19	H.011243.1 I-49 at US 190 and LA 31 Interchange Improvements Stage 0 (St. Landry Parish) Kristen was the project engineer responsible for crash and safety analysis, report writing, planning, and designing for this Stage 0 Study to evaluate alternatives to improve traffic operations and safety at the I-49 interchanges with US 190 and LA 31. Crash and safety analysis was performed using the DOTD CAT Scan tool and IHSDM, and line and grade was prepared to DOTD Design Standards for various corridors, including arterial collectors and freeway ramps.			
04/19 – 6/21	H.013817.1 A 117 Improvements Stage 0 (Vernon and Natchitoches Parishes) Kristen served as project engineer responsible for a Stage 0 study for 18 miles of two-lane highway. The study evaluated the impacts of correcting deficient vertical and horizontal geometry along the corridor, widening for the addition of shoulders, and adding passing lanes and turn lanes at strategic locations along the corridor. Kristen was responsible for performing the safety analysis including crash rate number method, over-representation, CAT Scan quality assurance, HSM existing safety analysis, and No-Build Analysis. Kristen designed high-level concept exhibits, evaluated environmental			

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	impacts, and prepared high level cost estimates and comparison matrices to determine which preliminary alternatives best meet the purpose and need of the project.
03/19 – 11/19	H.012311 LA 429 Connector Stage 0 (Ascension Parish, LA) Kristen was the task leader for the preparation of a Stage 0 study to evaluate alignments for a limited-access corridor (LA 429) near I-10, between LA 30, LA 73, and US 61. Two alternatives for the widening and reconstruction of LA 429 were evaluated. The scope consisted of stakeholder and public meetings, site visits and data collection, phasing of alternative development for the corridor, scope and budget checklists, and an opinion of probable cost to prepare the Stage 0 Report. Kristen served as the civil engineer responsible for designing high level concept exhibits and comparison matrix to determine the best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes, coordinated with interchange study consultants for a cohesive project, and wrote report.
11/18 - 3/21	H.013322 LA 3040 Feasibility / Safety Study Stage 0 (Houma, LA) Kristen served as project engineer for a study to identify safety and operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA to evaluate reasonable alternatives to address any deficiencies discovered. Kristen was responsible for compiling a data collection plan for submittal to DOTD, including count locations, determined peak periods, and peak hours. Kristen performed peak period observations in the field and geometric field checks, as well as unmet demand observations and calculations . Kristen prepared TMC figures, as well as performed existing analysis in Vistro. Compiled all data collected into Appendices A and B per the DOTD Traffic Process and Report and wrote Chapter 1 of report. Kristen represented the project at stakeholder meetings to discuss project status.
04/18 – 04/19	H.011243.1 I-49 at US 190 and LA 31 Interchange Improvements Stage 0 (St. Landry Parish, LA) Kristen was the project engineer responsible for crash and safety analysis, report writing, planning, and designing for this Stage 0 Study to evaluate alternatives to improve traffic operations and safety at the I-49 interchanges with US 190 and LA 31. Crash and safety analysis was performed using the LADOTD CAT Scan tool and IHSDM, and line and grade was prepared to DOTD Design Standards for various corridors, including arterial collectors and freeway ramps. Close coordination with traffic engineer ensured maximum improvement of safety and operations given limited right-of-way and utility conflicts along the corridors.
09/17 – 09/18	H.011160 LA 73 Corridor Study Stage 0 LA 74 to LA 621 (Ascension Parish, LA) Kristen was the designer responsible for concept development, report writing, and impact analysis for a Stage 0 study. The purpose of the study was to evaluate conceptual alternatives to improve capacity and operations along the LA 73 corridor and its connecting transportation network. The scope included the evaluation of three interchange configurations for the interchange of I-10 at LA 73 in conjunction with two corridor alternatives for LA 73, resulting in six different alternatives for which line and grade, impacts, and high-level cost estimates were prepared.
11/16 – 07/17	H.001271 Cane River Bridge Church Street Route LA 1-X Environmental Assessment Kristen was the project engineer responsible for assisting with the site visits, data organization, analysis of permanent alternatives and traffic control alternatives , and traffic report to aid in the delivery of an environmental assessment for the Cane River Bridge Replacement

Firm employed by Vectura Consulting Services, LLC				
Name	Reece Rodrigue, PE, PTOE, RSP1		Years of relevant experience with this employer	5
Title	Engineer		Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization			B.S./2013/Civil Engr.	
Active registration number / state / expiration date			PE.0042074 / LA / 3/31/2026	
Year registered	2017	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Project Engineer	
04/21 - current	MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA Reece is a project engineer for the design of traffic signal upgrades at 10 intersections. This project included a traffic design report, preliminary and final plans for traffic signals that included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. The design also included traffic signal synchronization signal timing and pedestrian signal timing.			
06/23 - Current	H.012845.1 Connected & Autonomous Vehicles (C/AV) Team and Working Group Support Reece is a member of the team to develop new policies and legislation related to C/AV.			
06/23 - Current	H.011507.1 Monroe Phase 3 SEA Reece visited the project site to document the controller type and detection needs at each signalized intersection within the right-of-way.			
07/21 - Current	H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge, Louisiana) Reece is part of the team responsible for Construction Engineering and Inspection . Reece has reviewed the signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.			
01/23 – 02/24	H.011504 Alexandria ITS Phase 2 Reece was the project engineer for a site visit, System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan.			
06/22 – 02/23	H.012381.5 ITS Fiber Management System Data Collection Reece performed the field observations for 40 sites to verify the ITS FMS and inventory services.			
04/20 - Current	H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project (Belle Chasse, LA) Reece is responsible for designing the temporary traffic signal for the intersection of LA 23 at Engineers Rd. for eight phases of construction per the anticipated sequence of construction. Temporary pole location and heights were recommended for placement for use for all construction phases. Vehicle clearance interval calculations were conducted for each phase in accordance with DOTD and ITE guidance. Reece is responsible for producing the traffic impact analysis portion of the Traffic Management Plan that was also used in planning for the permanent and temporary signal timing plans. Reece was also responsible for producing the permanent signal plans for the LA 23 intersections at Engineers Road and at Burmaster Street. He evaluated stop bar locations, calculated vehicle, and pedestrian clearance intervals, designed the railroad preemption sequence for both at-grade crossings, designed the wiring layout, and developed the interconnect plan. In addition, Reece was responsible for reviewing and approving shop drawings that were submitted by the contractor for use in construction.			
01/21 – 05/21	H.013256 - I-10 ITS Scott to Lake Charles (Lafayette, Acadia, and Jefferson Davis Parishes) Reece was a member of the subconsultant team who was tasked with reviewing the ITS plans for 15 sites along I-10 where CCTV cameras were being installed. Reece was responsible for measuring anticipated construction quantities and producing a cost estimate for said quantities by using DOTD’s Bid Tabulation and Cost Estimating Tool.			
09/20 – 12/21	H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish) Reece is an essential design engineer, who is assisting in the production of the temporary signal design associated with the sequence of construction for the roundabout at US 171 at Boone St. He			

	conducted a thorough analysis of the US 171 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.
09/20 – 12/21	H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish) Reece is a design engineer, who assisted in the production of the temporary signal design associated with the sequence of construction for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction phases. He assisted in calculating the temporary pole heights, determining the placement location for the temporary poles for each phase, measuring and calculating clearance intervals. Reece conducted a thorough analysis of the LA 30 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.
11/21 – 12/21	Emergency Street Light and Traffic Sign Assessment (New Orleans, LA) In response to the damage caused by Hurricane Ida, Reece inspected streetlights and street signs to report damage using the City's ArcGIS Online Organization and ArcGIS Field Maps app. The assessment area was approximately 2.5 miles by 2 miles area in the City of New Orleans.
02/20 – 09/21	College Drive Corridor Enhancement from Perkins Road to I-10 (Baton Rouge, LA) Reece was the task leader for organizing and formatting the data collection of the College Drive project limits. Tasks included in data collection were 7-day tube counts, intersection turning movement counts, approach tube counts, unmet demand observations, driveway counts, travel time runs, pedestrian / bicycle counts, and weaving counts.
07/19 – 12/19	Burgess Avenue at Duff Road Traffic Signal Design, Walker, LA Reece was responsible for the design of a fully actuated signalized intersection in the city of Walker, LA. The traffic signal was determined to meet signal warrants upon completion of the Foxglove subdivision in Livingston Parish, LA. Plans included road widening, signal face indication schedule, signal sequence chart, sign schedule, detector schedule, controller timing, wiring diagram, and free operation phasing diagram. Reece met with city officials to discuss the feasibility of constructing a traffic signal as opposed to other alternative measures for improving the intersection.
02/16 - 12/16	H.005733.5 US 190 Superstreet Task Order (St. Tammany Parish) Reece was a team member responsible for the layouts for the US 190 Superstreet signal designs. He created the preliminary plans using CAD software program MicroStation V8i. He aided in the technical design of each intersection. He conducted field inspections to verify locations of existing equipment as well as observing the area for feasible proposed utility locations. He attended project team meetings to discuss the project details as well as the plan-in-hand walk-through.
01/16 – 11/17	Ochsner Main Campus Traffic Signals (Jefferson Parish) Reece served as a design engineer for the traffic signal plans for the two Ochsner Main Campus access traffic signals with US 90 (Jefferson Hwy). The goal of the design was to implement updated pedestrian timings as well as optimize progression through the US 90 corridor. He reviewed traffic data and assigned time of day coordination timing parameters for the two intersections so that they may be included in the coordinated system west of the intersections. He used TruTraffic to determine the appropriate offset parameters so that vehicles may progress efficiently through the coordinated system. Plans for the two intersections were drafted in the form of DOTD's latest version of the TSI format. He was responsible for estimating construction quantities using DOTD's 2016 Spec Item list.
10/16 – 05/17	Loyola Interchange Modification Request, Kenner, LA Reece was a team member in the production of an Interchange Modification Report (IMR) for the I-10 at Loyola Dr. Interchange. He was an active member in collecting vehicle travel time data and processing the data. He also aided in collecting vehicle queues at the study intersections. He also assisted in the Vissim model calibration.
02/15 – 12/15	H.011646 Retainer Contract for DOTD District 02 Traffic Signal Inventories - Nola 3 Reece served as the lead engineer in the production of the traffic study for the District 02 Traffic Signal Inventories. The objective was to effectively correct the progression of traffic through the US 90 (Broad St) corridor. He reviewed vehicle crash data at all intersections in the study scope. He conducted travel time runs. He created a model with existing traffic signal timing information using Synchro 8 Software. He recommended traffic signal pedestrian clearance times and yellow and red clearance times for each intersection. He used MicroStation V8i when designing traffic signal plans in DOTD's TSI format.

Firm employed by Moffatt & Nichol Inc.				
Chace Hulon, P.E., ADCI			Years of relevant experience with this employer	11
Program Manager			Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization			Bachelor of Science / 2005 / Civil Engineering	
Active registration number / state / expiration date			P.E. 39701 / LA / 09/30/2027	
Year registered	2015	Discipline	P.E. Civil	
Contract role(s) / brief description of responsibilities			Engineer-Diver for Bridge Investigations Chace will manage all underwater evaluation services.	
08/13-Ongoing	LaDOTD Underwater Bridge Inspections, Statewide, LA. Project Manager, Dive Supervisor, and National Bridge Inspection Standards (NBIS) Team Leader for the fourth consecutive retainer contract. Contracted to perform 2,386 underwater bridge inspections throughout Louisiana and in the most challenging environments, including dive operations in the Lower Mississippi River under the U.S. Coast Guard (USCG) Waterways Management Division. Level I, II, and III inspections of submerged elements were performed in accordance with the Federal Highway Administration (FHWA), Bridge Inspector's Reference Manual (BIRM), American Association of State Highway and Transportation Officials (AASHTO) Manual for Bridge Evaluation (MBE), current NBIS requirements, LaDOTD Engineering and Maintenance Directives, and the LaDOTD Bridge Inspection Manual (BIM). Bridge types included movable swing span bridges with pivot piers, bascule bridges large chamber piers, long-span cantilever through truss bridges with caisson piers, timber trestle bridges with timber piles, cable-stayed bridges with drilled shafts, and multi-span bridges with drilled shafts up to 8 miles in length, and ferry terminals. Managed the QA/QC plan and performed QC reviews as the confirming engineer on NBIS inspection reports. The underwater bridge inspections in large waterways were conducted with commercial divers and augmented with multibeam high-resolution acoustic imaging technology to consistently monitor streambed changes and structural deficiencies over subsequent inspection cycles. Acoustic hydrographic surveying methods were performed using the HydroLite-TM, Kongsberg Mesotech MS 1000, R2Sonic, and the Norbit Winghead i77 units deployed from a vessel. QINSy, Qimera, Applanix POSPac, MMS systems, and MatLab were used for accurate and repeatable post-processing efforts. Scour evaluations are integrated into every underwater bridge inspection, however focused scour evaluations for the purpose of performing a scour analysis were performed that included a macroscopic view of the surrounding site conditions. Performed emergency underwater damage assessments while augmenting sonar technology and advising on corrective actions and repair alternatives. Performed more than 20 emergency response damage assessments, including the recent allision of the Grosse Tete Bridge (LA77) over the Port Allen Lock canal.			
09/24-03/25	ARDOT, A6476 Bridge Investigation, Siloam Springs, AR. Project Manager, Dive Supervisor, and Team Leader for the investigation of Bent 3A Pier. This reinforced concrete hammerhead pier shaft has a spread footing keyed into shale and is experience severe cracking in the shaft and the footing. Chace led the investigation team along with an HNTB representative to safely perform diving and rigging operations in a river with challenging access. Maintenance of traffic (MOT) devices were utilized for shoulder closures in accordance with Manual on Uniform Traffic Control Devices (MUTCD) and American Traffic Safety Services Association (ATSSA) safety standards. Rigging operations were performed in accordance with Society of Professional Rope Access Technicians (SPRAT) safety standards for heavy equipment. Diving operations were performed in accordance with Association of Diving Contractors International (ADCI) safety standards.			

	Material sampling was required to thoroughly assess the chemical composition of the concrete matrix. Chace supervised and performed the concrete core extraction operations above- and below-water with a hydraulic unit with core sizes of 4-in diameter by 36-in long. Concrete coring was performed to investigate the chemical composition of the concrete matrix and to explore the limits of cracking in the footing. Testing included compressive tests and petrographic analyses. Tests concluded that excessive amounts of secondary ettringite (DEF) are present along with minor traces of alkali-silica reaction (ASR). Repairs consisted of crack injections and a monitoring plan to assess the stage of chemical reaction and the rate of deterioration as the reaction may be near completion.
03/20-Ongoing	LaDOTD Indefinite Delivery/Indefinite Quantity (IDIQ) for Complex Bridge Inspection, Statewide, LA. Project Manager and Chief Editor for major revisions of the 2020 bridge maintenance policies and procedures (BIM) to incorporate the 2022 NBIS Final Rule. The new policies and procedures included LaDOTD On-System BIM, LaDOTD Off-System BIM, and LaDOTD Coding & Field Guide. While the above documents have been completed, the LaDOTD Bridge Load Rating Manual development is currently in progress. M&N collaborated with the LaDOTD staff throughout the development to meet expectations and maintain their direction. In-person progress meetings occurred monthly, including facilitating various District Bridge Engineers throughout the state. The BIM policies and procedures were completed and published in December of 2024 to fully implement in January 2025 and be fully compliant for the FHWA audit in 2028. Compliance with the National Bridge Inspection Program (NBIP) and the associated Specifications for the National Bridge Inventory (SNBI) data tape is in alignment with the anticipated timeline published by FHWA. The tables of contents of the Off-System and On-System manuals were purposefully ordered primarily for the bridge inspector. The vital forms and checklists for the Bridge Inspection Program were narrowed down to eight and stored in the appendix section. The Coding and Field Guide is uniquely designed for a seamless user experience allowing efficient navigation through significant amounts of technical data. Performed in-depth bridge inspections on complex movable and long-span bridges. Performed structural, mechanical, and electrical inspections of six movable bridges utilizing detailed, nondestructive, and laboratory testing methods with hand sketches. Installed a wireless SHM (system health monitoring) system on the Greater New Orleans bridge to monitor significant deficiencies in Nonredundant Steel Tension Members (NSTM) members due to poor design details and advised of repair alternatives. Utilized nondestructive examination (NDE) methods (laser and acoustic) to analyze the rotational movement of an unstable pivot pier. Performed the inspections of two cable-stayed bridges with rope access techniques to inspect 208 cables between the two bridges, their Gensui Dampers, and anchorage systems. Performed two inspections of the I-10 Horace Wilkinson Bridge and two inspections of the Greater New Orleans Bridges, which are cantilever truss bridges utilizing rope access techniques and rolling lane closures to minimize traffic impacts. Performed a fracture critical inspection of the Green Bridge, a steel tied arch in New Orleans, utilizing rope access and Unmanned Aircraft Systems (UAS) access techniques. Performed the inspection of the I-10 Bridge over the Calcasieu River in Lake Charles utilizing rope access on NSTM and UAS access techniques on columns. The Skydio X10 drone with DroneDeploy and 3D Scan was used to capture an orthomosaic projection of the structure for digital twin models. Hands-on management and implementation of the QC review plan are vital to the continued success of this project.
08/22-03/23	U.S. Army Corps of Engineers (USACE), Bridge and Waterfront Facility Inspection Services at US Army Garrison (USAG) Fort Polk, Leesville, LA. Project Manager, Dive Supervisor, and Quality Assurance Field Engineer Lead for inspection of 63 FHWA reportable structures in the Fort Polk inventory.

Firm employed by Moffatt & Nichol Inc.				
Name	Bryan Tyson, P.E., ADCI		Years of relevant experience with this employer	5
Title	Structural Engineer		Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization			Master of Science / 2010 / Civil Engineering; Bachelor of Science / 2008 / Civil Engineering	
Active registration number / state / expiration date			P.E. 0043425 / LA / 03/31/2027	
Year registered	2019	Discipline	P.E. Civil	
Contract role(s) / brief description of responsibilities			Engineer-Diver for Bridge Investigations Bryan will be responsible for planning, directing, and monitoring all aspects of underwater inspections, including serving as the Team Leader on-site.	
09/23-11/24	LaDOTD SNBI Program Development and Manual Publications, Statewide, LA. Structural Engineer and Lead Technical Editor for revising the 2020 bridge maintenance policies and procedures (BIM) to incorporate the 2022 NBIS Final Rule. The revised BIM was a major revision from the previous manual which included adding the 2022 NBIS Final Rules to 23 CFR Part 650 along with the SNBI, and the Metrics for the Oversight of the National Bridge Program. Primary contributor to the On-System and Off-System Bridge Inspection Manuals. Secondary contributor to the development of the Coding & Field Guide, which is an intuitive and interactive PDF allowing inspection personnel to quickly reference the relevant SNBI codes, state specific standard element numbers, rating definitions, and examples of proper documentation while in the field. Responsible for incorporating updates to the LaDOTD bridge inspection policies and procedures along with more than 30 reference documents from FHWA, LaDOTD, and AASHTO. Early in the project, the M&N team worked closely with the LaDOTD to review the bridge inspection manuals of other states and compared the pros and cons of the manuals to determine the best outline to fit LaDOTD’s needs. Led weekly progress meetings with LaDOTD throughout the entire project to discuss updated policies and review the living action item list. Maintained quality through the quality control plan, and each chapter was reviewed by a dedicated team of subject matter experts to ensure overall quality and adherence to the new inspection policies, procedures, standards, and guidelines that were being established.			
07/23-Ongoing	LaDOTD Underwater Bridge Inspection Statewide, LA. Structural Engineer and Team Leader for the current 5-year retainer contract to perform underwater bridge inspections throughout Louisiana for the LaDOTD, including 100% visual inspections of submerged elements in accordance with NBIS requirements. Served as inspector for the underwater inspection of concrete, steel, and timber bridges.			
09/24-03/25	ARDOT, A6476 Bridge Investigation, Siloam Springs, AR. Team Member, Engineer-Diver, Rigger, and Drone Pilot for the investigation of Bent 3A Pier. This reinforced concrete hammerhead pier shaft has a spread footing keyed into shale and is experience severe cracking in the shaft and the footing. MOT devices were utilized for shoulder closures in accordance with MUTCD and ATSSA safety standards. Rigging operations were performed in accordance with SPRAT safety standards for heavy equipment. Diving operations were performed in accordance with ADCI safety standards. Drone operations were performed in accordance with Federal Aviation Administration safety standards. Performed the 3D reconstruction of Pier 3A to provide a visual model of all crack locations accurately referenced, quantified, and rated. Material sampling was required to thoroughly assess the chemical composition of the concrete matrix. Bryan supported the concrete core extraction operations above- and below-water with a hydraulic unit with core sizes of 4-in diameter by 36-in long.			

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	Concrete coring was performed to investigate the chemical composition of the concrete matrix and to explore the limits of cracking in the footing. Testing included compressive tests and petrographic analyses. Tests concluded that excessive amounts of secondary ettringite (DEF) is present along with minor traces of ASR. Repairs consisted of crack injections and a monitoring plan to assess the stage of chemical reaction and the rate of deterioration as the reaction may be near completion.
10/23-12/23	Hollingshead Dock Inspection, Panama City, FL. Team Leader and Engineer-Diver for the underwater inspection of a steel bulkhead relieving platform built in the 1920s. Performed Level I, II, and III inspections of submerged elements in accordance with the American Society of Civil Engineers (ASCE) Underwater Investigations Standard Practice Manual and ASCE Waterfront Facilities Inspection and Assessment. QC review of the dock load, the existing structural configuration, and the inspection memo.
03/24-Ongoing	MDOT, Underwater Bridge Inspection, Statewide, MS. Project Manager and Team Leader for a 1-year retainer contract to perform underwater inspections throughout Mississippi, including 100% visual inspections of submerged elements in accordance with NBIS requirements. Served as inspector for the underwater inspection of concrete, steel, and timber bridges.
09/16-10/16	TxDOT EBDG Galveston Bolivar Ferry Landing Repairs, Bolivar Peninsula, TX. Engineer-Diver on an above-water and below-water inspection of the marine facilities. Performed Level I, II, and III inspections of submerged elements in accordance with the ASCE Underwater Investigations Standard Practice Manual and ASCE Waterfront Facilities Inspection and Assessment.
09/15-01/18	LaDOTD Underwater Bridge Inspections, Statewide, LA. Structural Engineer and Dive Team Member for two out of ten tasks completed for this LaDOTD five-year-long retainer contract to perform underwater bridge inspections throughout Louisiana. Provided Level I, II, and III inspections of submerged elements in accordance with the FHWA, BIRM, AASHTO MBE, current NBIS requirements, and LaDOTD Engineering and Maintenance Directives. Bridge types included movable swing span bridges, bascule bridges, truss bridges, timber stringer bridges, cable-stayed bridges, single and multi-span bridges up to 8 miles in length. Assisted with the preparation of NBIS inspection reports. During the two tasks, provided inspection of more than 45 concrete, steel, and/or timber bridges. Included emergency evaluations utilizing underwater acoustic imaging. The second task involved bridges over large waterways with high-risk environmental conditions. Also, provided NBIS inspection reports.
05/16-07/16	Port Freeport Underwater Inspection of Berths 1, 2, 3, 5, and 7, Freeport, TX. Team Lead and Structural Engineer for the underwater inspection of approximately 3100 linear feet of steel bulkhead. Performed Level I, II, and III inspections of submerged elements in accordance with the ASCE Underwater Investigations Standard Practice Manual and ASCE Waterfront Facilities Inspection and Assessment.
06/17-11/18	Underwater Bridge Inspection of Large River Crossings, Statewide, LA. Structural Engineer and Diver for two tasks under a five-year, open-ended retainer contract to perform underwater bridge inspections throughout Louisiana. Served as inspector and Team Leader. Provided Level I, II, and III inspections of submerged elements in accordance with the FHWA, BIRM, AASHTO MBE, current NBIS requirements, and LaDOTD Engineering and Maintenance Directives. Bridge types included movable swing span bridges, bascule bridges, truss bridges, timber stringer bridges, cable-stayed bridges, single and multi-span bridges up to 8 miles in length. Assisted with the preparation of NBIS inspection reports. During the two tasks, inspection of 41 major bridges over large waterways with deep foundation and dynamic channel conditions.

Firm employed by Moffatt & Nichol Inc.				
Name	Jeffrey Gazarek, ADCI		Years of relevant experience with this employer	10
Title	Dive Safety Officer/Compliance Manager		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			Safety Manager, NBIS Underwater Team Leader, and Acoustic Imaging Specialist Jeffrey will develop the overall project safety plan, serve as the site safety manager, lead and perform NBIS underwater inspections, and perform acoustic imaging.	
05/21-08/25	LaDOTD Underwater Bridge Inspections, Statewide, LA. Safety Manager, Engineering Technician Diver, and Team Leader for the current five-year retainer contract 2020-2025 to perform underwater bridge inspections throughout Louisiana. Performed Level I, II, and III inspections of submerged elements in accordance with the FHWA BIRM, AASHTO MBE, current NBIS requirements, and LaDOTD requirements.			
06/17-12/20	LaDOTD Underwater Bridge Inspections and Underwater Acoustic Imaging, Statewide, LA. Safety Manager, Engineering Technician Diver, and Dive Supervisor for the five-year retainer contract 2017-2021 to perform underwater bridge inspections throughout Louisiana. Performed Level I, II, and III inspections of submerged elements in accordance with the FHWA BIRM, AASHTO MBE, current NBIS requirements, and LaDOTD requirements. Acoustic imaging techniques were used to identify structural deficiencies and determine the limits of scour, to perform emergency underwater investigations, and to inspect bridges over high-risk waterways.			
11/15-03/17	LaDOTD Underwater Bridge Inspections, Statewide, LA. Site Safety Specialist, Engineering Technician Diver, and Team Leader for the five-year retainer contract 2012-2017 to perform underwater bridge inspections throughout Louisiana. Performed Level I, II, and III inspections of submerged elements in accordance with the FHWA BIRM, AASHTO MBE, current NBIS requirements, and LaDOTD requirements.			
04/19-04/24	LaDOTD In-Depth Bridge Inspections, Statewide, LA. Engineering Technician Diver, Sonar Specialist, Site Safety Specialist, and Senior Dive Supervisor for the five-year retainer contract to perform in-depth bridge inspections on complex and movable bridges throughout Louisiana. As the primary sub-consultant to HTNB, M&N is performing complete in-depth inspections (fulfilling both routine and fracture critical inspection types) as a quality assurance measure for the district personnel for the Headquarters Bridge Inspection Office. Performed Level I, II, and III inspections of submerged elements in accordance with the FHWA, BIRM, AASHTO MBE and Manual for Bridge Element Inspection, current NBIS requirements, and the LaDOTD BIM will be required as needed. Bridge types include cantilever trusses, segmental concrete box girders, movable swing span bridges, bascule bridges, cable-stayed bridges, and bridges of various configurations with timber elements.			
03/24-Ongoing	MDOT 2023 IDIQ Underwater Bridge Inspection, Jackson, MS. Safety Manager responsible for the review and approval of dive and field safety plans for specialty access projects, both above- and below-water. This includes oversight of diving operations, rope access, fall protection, mobile elevated work platforms, and confined space safety.			

10/22-10/22	USACE, Bridge Inspection Services at USAG Fort Polk, Leesville, LA. Project Safety Manager and Inspection Team Member responsible for field inspections and safety oversight. This task order covered the inspection of 63 bridges and the preparation of reports per NBIS and USACE procedures. Field inspections required extensive coordination with the Directorate of Public Works and range control to avoid affecting base operations. Four bridges required an underwater inspection. Duties included pre-site visit, dive plan and safety plan review, and on-site bridge inspection.
04/20-04/25	LaDOTD Inventory and Inspection of Sign Trusses, Statewide, LA. Site Safety Specialist who supported the overall project safety, logistics, and compliance. He led meetings to present findings related to sign inventory issues and reviewed guidance documents and logistical considerations across project teams. He addressed bucket truck safety concerns, maintenance planning, and contract modifications, including transitioning from a standard lease to a custom agreement. He reviewed and discussed hazard analyses, including electrical hazards and rope access safety. He evaluated and updated the Access Work Plan, project wide Activity Hazard Analysis (AHA), and Rope Access AHA. He oversaw incident reporting processes and facilitated safety meetings covering flaggers, traffic control technician, and traffic control supervisor training. He coordinated with the sub-consultant's regional manager to ensure safety documentation compliance with M&N standards and contract requirements and actively supported field team safety through regular reviews of the Field Safety Plan and by promoting clear communication and procedural adherence.
10/22-12/24	MDOT Bridge Load Rating Inspection, Statewide, MS. Team Leader and Technician who performed in-depth inspection for load rating of four bridges. The team identified and verified bridge defects from previous inspection reports, and cross-referenced on-site measurements with the original build drawings, which helped the team develop a load rating report and gave bridge posting recommendations.
07/15-12/19	LaDOTD Truss Sign Inspection, Statewide, LA. Team Leader and Site Safety Specialist to perform ancillary structure inspections throughout Louisiana. Inspections include steel and aluminum welds, critical moment connections, fatigue prone details, safety features and general maintenance items to increase service life in accordance with FHWA guidelines.

Firm employed by Moffatt & Nichol Inc.				
Name	Christopher “Chip” Eschenbach, ADCI, CWI		Years of relevant experience with this employer	7
Title	Engineering Technician Diver		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			Associate of Science / 2015 / Welding Technology	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			NBIS Underwater Team Leader and Marine Mapping Specialist Chip will help provide direction, experience, and safe practices during field inspections.	
07/21-Ongoing	LaDOTD Underwater Bridge Inspections, Statewide, LA. Engineering Technician Diver responsible for maintaining the diving and inspection equipment, planning and preparing all necessary tools and information, providing field notes and observations, and writing reports. Provides routine maintenance of the inspection equipment and proper record keeping, uses the manufacturer's recommendations to maintain high standards for our inspections, and ensures that the industry standards are met before anything is used. Identifies the inspection locations for planning and preparation, reviews previous inspection data, identifies the proper lodging and safety accommodations, confirms tools are available for use, and confirms that safety concerns are addressed. Provides field notes and observations of the field data collection process, using a diver or non-diving inspector, and taking photos, video, or using acoustic imaging to collect data. Assists in the report development process and the rounds of QA/QC.			
09/19-03/20	LaDOTD NBIS Underwater Bridge Inspection Retainer Contract, Statewide, LA. NBIS Inspector for the five-year retainer contract to perform Level I, II, and III underwater bridge inspections in accordance with NBIS and AASHTO Manual for Bridge Element Inspection. Completed underwater inspection fieldwork, inspection reports, and quality control reviews. Underwater acoustic imaging techniques were used to locate structural deficiencies, identify potential undermining, observe the limits of scour, and document the limits of riprap installations.			
10/20-12/23	LaDOTD IDIQ Contract for In-Depth Bridge Inspections, Statewide, LA. NBIS Inspector for routine bridge inspections throughout Louisiana, including 100% visual inspections in accordance with NBIS requirements. Performed a routine bridge inspection of the cable-stayed Audubon Bridge above the deck utilizing rope access techniques in St. Francisville. Responsibilities included preparing SPRAT and climbing gear for inspection, coordinating with the other climbing teams, performing inspection on each cable for cable-stay bridge using rope access and performing inspection on the cable-stay towers, relaying defects and photographing defects found.			
04/24-Ongoing	MDOT 2023 IDIQ Underwater Bridge Inspections, Statewide. Engineering Technician Diver responsible for maintaining the diving and inspection equipment, planning and preparing all necessary tools and information, and providing field notes and observations. Maintaining the inspection equipment entails routine maintenance, proper record keeping, using the manufacturer's recommendations to maintain high standards for our inspections, and ensuring that the industry standards are met before anything is used. Planning and preparation have included the tools that are available for use and that all safety concerns are addressed. Providing field notes and observations using a diver or a non-diving inspection and taking photos or video.			

Firm employed by Moffatt & Nichol Inc.				
Name	Herodotos Pentas, PhD, P.E.		Years of relevant experience with this employer	3
Title	Senior Bridge Engineer		Years of relevant experience with other employer(s)	32
Degree(s) / Years / Specialization		PhD / 1990 / Civil Engineering MS / 1985 / Civil Engineering BS / 1984 / Civil Engineering		
Active registration number / state / expiration date		P.E. 0024660 / LA / 09/30/2026		
Year registered	1992	Discipline	P.E. Civil	
Contract role(s) / brief description of responsibilities		Rehabilitation/Load Rating/Scour Evaluations/Vessel Collision Analysis MPR 4 Herodotos will perform rehabilitation design, load ratings, scour evaluations, and vessel collision analysis as needed.		
02/23-Ongoing	MDOT Office of State Aid Road Construction, Bridge Load Ratings, Statewide, MS. Lead and Structural Engineer supervising the load ratings on five bridges by creating models in AASHTOWare’s Bridge Rating (BrR) for the superstructures and LEAP for the substructures in accordance with load and factor resistance rating and load factor rating. Supervised the team that identified bridge defects from the inspection reports, developed a load rating report, and gave bridge posting recommendations.			
08/93-10/95	LaDOTD S.P. 700-30-0002, Complex Structures Load Rating of Bridges, Statewide, LA. Project Manager who provided load analysis and rating of 37 complex steel and concrete bridges using both working stress and load factor methods. Structure types included simple and multi-span steel curve plate girders, simple and multi-span normal and skewed box girders, and curved box girders.			
06/97-06/99	LaDOTD S.P. 737-99-0441 & 737-99-0158, Assessment of Bridge Damage by Watercraft Divisions 2, 3, and 7, Statewide, LA. Project Manager for the baseline inspections of fender systems/substructures of 134 bridges to determine damage caused by marine vessels. Provided damage assessment, repair plan preparation, cost estimates, repair procedure, and report. The project received national attention due to its effectiveness and execution.			
06/06-06/08	LaDOTD S.P. No. 700-26-0293, Off-System Bridge Replacement, Jefferson Parish, LA. Principal-in-Charge of the design of preliminary plans for two concrete bridges. Responsible for hydraulic and structural calculations and plans.			
01/95-05/97	LaDOTD S.P. 700-99-0118, Structural Load Rating of Bridges, Statewide, LA. Project Manager for load rating of 118 bridges throughout the state. A majority of the bridges were prestressed concrete and steel plate girder design.			

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Firm employed by Moffatt & Nichol Inc.				
Name	Iris Leoncio, P.E., S.E.		Years of relevant experience with this employer	6
Title	Structural Engineer		Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization			MS / 2003 /Civil and Environmental Engineering BS / 2000 / Civil Engineering	
Active registration number / state / expiration date			P.E. 0047438 / LA / 09/30/2027	
Year registered	2023	Discipline	P.E. Civil, Structural	
Contract role(s) / brief description of responsibilities			Rehabilitation/Load Rating / Iris will perform rehabilitation design and load ratings as needed.	
02/20-07/20	Virginia Department of Transportation (VDOT), George P. Coleman Memorial Bridge (Route 17) over York River Bridge Load Rating, Yorktown, VA. Senior Project Engineer responsible for the as-inspected load rating study of the truss spans of the 3750-foot bridge, which consists of steel girder approach spans, two fixed truss spans, two suspended truss spans and two swing bridges. A three-dimensional finite element model is created in LARSA 4D to generate load demands on truss members and the deck framing system. Gusset plates are checked using Whitmore sections in accordance with the AASHTO MBE.			
08/21-05/24	VDOT WBL Berkley Bridge (I-264) over the Eastern Branch of Elizabeth River Floor Beam Repairs, Norfolk, VA. Project Manager responsible for the Stage II inspection and repair design of floor beams in the 178-ft double-leaf bascule span in order to improve the bridge load rating. The as-designed load rating study was performed using AASHTOWare BrR. Restrictions by the U.S. Coast Guard and VDOT Hampton Roads District on permissible lane and channel closures, limited work hours at night, and the likelihood of unscheduled bridge openings during construction add complexity to the design. Careful consideration of construction sequencing and the design of temporary falsework, scaffolding, containment structures, and other attachments to the existing leaves is required. Provided Stage III construction phase services for review and consultation.			
02/21-04/23	VDOT Route 17 over the James River Bridge Beam Strengthening, Isle of Wright, VA. Project Manager who oversaw the repairs to prestressed concrete beams to improve the load rating of the 4.4- mile bridge, which consisted of 302 approach spans and a vertical lift span for each northbound and southbound direction. Carbon fiber reinforced polymer was used to target 29 beams with significant strand losses. Various anchoring methods to delay failure due to fiber debonding that may preempt the full capacity of the repair system were assessed. Other post-tensioning repair techniques, including GRABB-IT cable splice assemblies, were also evaluated. The team avoided lane closures on Route 17, maximizing the efficient use of available construction funds, and adopted American Concrete Institute (ACI) guidelines and recent research publications to manually calculate ratings outside of VDOT’s standard BrR software were crucial to the design.			

10/20-12/23	VDOT Steel Superstructure Repairs for Various I-64 & I-264 Bridges, Norfolk & Virginia Beach, VA. Project Manager responsible for overseeing inspections and delivering Stage I preliminary design services and Stage II detailed design services for six simple-span composite steel beam bridges with similar deficiencies. Stage III construction phase services for review and consultation are also included in the scope. During Stage I, conceptual rehabilitation strategies and schematic repairs for the steel superstructure, bearings and adjacent substructure members are developed. During Stage II, repair details for beams with section losses due to corrosion, steel bearings with gaps and missing components, and bearing seats with spalls are developed. Heat straightening repair based on FHWA guidelines, as well as gouge and weld repairs for beams with impact damage, are also developed. Minimizing lane closures on the interstate and local roadways and conducting a very aggressive milestone schedule are critical to the success of the project.
05/21-10/21	VDOT Route 301 Study, Caroline & King George Counties, VA. Project Manager responsible for conducting inspections, concrete sampling and testing, and producing a comprehensive Stage I corridor maintenance study of 14 bridges and nine culvert structures along Route 301 through Caroline & King George Counties. Maintenance and rehabilitation strategies, cost estimates and life cycle cost analyses that conform to the VDOT Structures and Bridge Manual are developed to aid the Fredericksburg district in prioritizing and securing future funding. Superstructure recommendations include rigid overlays with deep hydromilling, deck joint elimination and elastomeric expansion dams. For the substructure and culverts, electro-chemical chloride extraction, thermally sprayed galvanic anodes, sealing cracks using expansive urethane grouts, pressure grouting of voids under footings and new pile jackets are proposed. MOT, environmental permits, utilities, special technical provisions, construction access and right-of-way are also addressed. Achieving an efficient and consistent system of inspections and recommendations, as well as on-time materials testing, under a very aggressive schedule is critical to the success of the project.
03/21-03/21	VDOT I-264 over Witchduck Road Emergency Beam Repairs, Virginia Beach, VA. Senior Project Engineer responsible for heat straightening repairs and planning development of emergency repairs for multiple 45-foot-long steel beams that suffered major damage under vehicular impact. Safety-related recommendations are made for immediate repair actions. A longer-term solution that consists of a temporary carrier beam to support the most severely damaged beam while heat straightening and partial beam replacement repairs are being proposed and completed within 4 months.

Firm employed by Moffatt & Nichol Inc.				
Name	Eric Vugteveen, P.E.		Years of relevant experience with this employer	27
Title	Senior Structural Engineer		Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization			BS / 1990 / Civil Engineering BS / 1990 / Architectural Engineering	
Active registration number / state / expiration date			P.E. 0038667 / LA / 09/30/2026	
Year registered	2014	Discipline	P.E. Civil	
Contract role(s) / brief description of responsibilities			Rehabilitation/Load Rating Eric will perform rehabilitation design and load ratings as needed.	
10/20-12/23	VDOT U.S. 17 over the James River Bridge Beam Repairs, Isle of Wright, VA. Senior Structural Engineer for VDOT Statewide Limited Services Contract project, oversaw repairs to prestressed concrete beams to improve the load rating of the 4.4-mile bridge, which consists of 302 approach spans and a vertical lift span for each northbound and southbound direction. Carbon fiber reinforced polymer was used to target 29 beams with significant strand losses. Various anchoring methods to delay failure due to fiber debonding that could preempt the repair system’s full capacity were assessed. Other post-tensioning repair techniques, including GRABB-IT cable splice assemblies, were also evaluated. Avoiding lane closures on Route 17, maximizing the efficient use of available construction funds, and adopting ACI guidelines and recent research publications to manually calculate ratings outside of VDOT’s standard BrR software were crucial to design.			
08/21-12/23	VDOT Floor Beam Repairs, Berkley Bridge Westbound Lanes, Norfolk, VA. Senior Structural Engineer for this VDOT Statewide Limited Services Contract, provided Stage II inspection and repair design of floor beams in the 178-foot double-leaf bascule span to improve the bridge load rating. The as-designed load rating study was performed using AASHTOWare BrR. Restrictions by the U.S. Coast Guard and VDOT Hampton Roads District on permissible lane and channel closures, limited work hours at night, and the likelihood of unscheduled bridge openings during construction added complexity to the design. Careful consideration of construction sequencing and the design of temporary falsework, scaffolding, containment structures, and other attachments to the existing leaves were required. Stage III construction phase services for review and consultation were also provided.			
11/08-02/21	City of Colonial Heights Safety Inspection of Highway Structures and Engineering Services, Colonial Heights, VA. Project Manager, Lead Engineer, and Inspection Team Leader for seven cycles of biennial routine NBIS inspections for three steel girder bridges, a prestressed concrete girder bridge, reinforced concrete slab bridge, and two concrete box culverts for the City of Colonial Heights. Prepared detailed inspection reports for each structure, which included a structure description, condition assessment, repair recommendations, photos, and updated NBIS condition ratings. Performed emergency site visit to determine the extent of required deck repairs on the Temple Avenue Bridge. Inspections included two cycles of underwater inspections at Sherwood Drive over Swift Creek and oversaw a scour evaluation based on inspection findings and hydraulic analysis of the waterway.			
02/20-09/20	Route 106 over I-64 Beam Blocking and Bearing and Beam Repairs, New Kent, VA. Project Manager and Lead Structural Engineer providing initial inspection for blocking design and bridge load rating for this VDOT Statewide Limited Services Contract LOA17 project. Due to the bridge length and skew, bearing and beam repairs were implemented to restore the bridge’s load-carrying capacity following heavy deterioration of bearings.			

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12/19-12/19	VDOT Load Rating and Additional Stage III Services, Route 644 over Meherrin River, Brunswick County, VA. Lead Structural Engineer for as-built load rating of emergency repairs that utilized a temporary bent for this VDOT Statewide Limited Services Contract project. Two major components included bridge superstructure load rating using the AASHTOWare BrR program and temporary bent superstructure load rating using spreadsheet/hand calculations. The repaired structure load rating was completed in conformance with VDOT policies and the VDOT Structure & Bridge Division Instructional and Informational Memoranda for load rating.
06/19-09/19	VDOT NBIS Inspection of Five Bridges (NBIS-LOA7), Waynesboro, Augusta County, and Rockingham County, VA. Inspection Team Lead for NBIS inspection of five bridges for VDOT Staunton District. Prepared detailed inspection reports for each structure that included a structure description, condition assessment, repair recommendations, photos, and updated NBIS condition ratings. Inspections included a four-span steel multigirder bridge; two-span continuous steel beam bridge; two parallel structures consisting of a 179-foot-long, three-span multibeam bridge; and a five-span steel beam bridge.
12/18-08/19	VDOT NBIS Inspection of Nine Bridges (NBIS-LOA5), Augusta County and Rockbridge County, VA. Inspection Team Leader for NBIS inspection of nine bridges for VDOT Staunton District. Prepared detailed inspection reports for each structure, which included a structure description, condition assessment, repair recommendations, photos, and updated NBIS condition ratings. Inspections included five simple-span prestressed concrete I-girder bridges, two 3-span simple steel multigirder bridges, one 2-span continuous steel multigirder bridge, one 4-span steel multigirder bridge, parallel 4-span continuous steel multigirder bridges, and parallel 5-span prestressed concrete beam bridges.
04/09-08/09	Load Rating of Existing Structures, Arlington, Albemarle, Augusta, Fairfax, Fauquier, Fluvanna, Louisa, Prince William, Rockbridge, Shenandoah, Warren Counties, and Several Independent Cities, VA. As part of an engineering consulting team for this VDOT Region III Limited Services Term Contract for Load Rating of Existing Structures, served as Assistant Project Manager and Structural Engineer for task orders to evaluate inspection reports and load rate bridges. M&N provided load rating for 76 structures. Bridge types included steel, steel continuous, concrete, concrete continuous, and prestressed concrete. Spans ranged from two to eight spans. Used load resistance factor rating for 11 loads, as described in VDOT's "Load Rating and Posting of Structures" (2009) and AASHTO' VIRTIS computer program for analysis and load rating.
02/06-12/08	VDOT Bridge Load Ratings, Northern Virginia, Hampton Roads, and Culpeper Districts, VA. Structural Engineer for these four VDOT Term Contract for Inspection and New Bridge Design task assignments, evaluated inspection reports and load ratings of 63 bridges in Northern Virginia (41) and Culpeper (22) Districts. Completed or provided quality control review of load ratings for steel, concrete, and timber bridges ranging in complexity from short, simple spans to longer, multiple-span curved bridges, including concrete arches and prestressed and post-tensioned concrete bridges. Load rating used the AASHTO' VIRTIS computer program.

Firm employed by Moffatt & Nichol Inc.				
Name	Mike Harris, P.E.		Years of relevant experience with this employer	26
Title	Supervisory Structural Engineer		Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization			BS / Civil Engineering / 1998	
Active registration number / state / expiration date			P.E. 0402023868 / VA / 01/31/2027	
Year registered	1993	Discipline	P.E. Civil	
Contract role(s) / brief description of responsibilities			Bridge Repair Design Mike will provide bridge repair design services, including effective, constructible repair solutions, and resolve design or field challenges	
01/23-Ongoing	Route 646 over Left Fork Bridge Replacement, Buchanan County, VA. Project Principal responsible for providing project and technical oversight, quality assurance, supervising design meetings, and attending client milestone review meetings. M&N and a team of sub-consultants provided preliminary design, final design, and construction support for the replacement of the existing 19-foot-long simple-span reinforced concrete slab span with an asphalt wearing surface. A flood event in 2021 revealed the existing abutments on spread footings to be scour critical when undermining and settlement of an abutment occurred. The 34-foot-long simple-span replacement bridge utilized full integral abutments with the steel H-piles socketed into rock. Bridge design was provided by a sub-consultant.			
06/19-12/23	Hampton Roads District for Design-Build I-64 Southside Widening / High-Rise Bridge, Chesapeake, VA. Project Manager and Technical Advisor to provide assistance, recommendations, and briefings to the District Structure & Bridge Office, which included review of Contractor submissions of plan and design changes, requests for information, reports of non-conforming work, and repair procedures. Provided monthly activity reports to the District Structure & Bridge (S&B) Office summarizing the construction and design issues that were reviewed and discussed amongst the various reviewers. M&N provided consultant support to the Hampton Roads District S&B Office on an as needed basis during the construction stage of the Phase 1 contract for the design-build project in Chesapeake, VA, which widened the existing interstate from 4 to 6 lanes along nearly 9 miles of Interstate 64 (I-64). Bridge work included a new fixed-span High-Rise Bridge with 100-foot vertical clearance over the Elizabeth River, replacement of an overpass bridge, and widening of six existing I-64 bridges.			
03/15-12/18	VDOT Term Contract for Design of Highway Structures and Bridges, Statewide, VA. Project Manager for design and construction phase support activities related to 25 task orders that included 14 unique bridge projects. Services included preliminary and final design services for new bridges, bridge replacements, and bridge repair projects along with corresponding approach roadway design as required.			
12/12-03/14	Route 60 Warwick Boulevard over Lake Maury Bridge Replacement, Newport News, VA. Quality Control Bridge Engineer for plan development of a replacement of the bridge that carries Warwick Boulevard over Lake Maury. The replacement bridge design carries six lanes of traffic, and the northeast bridge approach will be improved by adding one through lane. Two lanes of traffic had to be maintained in each direction during construction to eliminate traffic detours and minimize traffic delays in the area. Plans and an engineer’s estimate were provided for each context-sensitive replacement alternative, along with a final recommendation.			
01/12-06/17	Multiple Bridge Replacement Projects, Warrenton Residency Contract, Culpeper District, VA. Assistant Project Manager for the professional engineering services for design and overall project management for the development of three			

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	bridge replacements. The initial tasks involved preliminary roadway and bridge design, Stage I bridge reports, development of preliminary plans, and public hearing support. Following selection of the preferred bridge alternative, tasked with developing final plans, specifications and estimates and construction phase support for each structure.
12/11-10/20	VDOT Term Contract for Inspection and New Bridge Design, Statewide, VA. Project Manager for 49 task orders for bridge and approach roadway design across the state. Task orders included new bridge and approach roadway design, including 22 bridge replacements and bridge studies. • Route 6 over Rivanna River Hydrology and Hydraulics Study, Fluvanna County, VA. • Route 637 over Troy Creek Bridge Replacement, Westmoreland County, VA. • Route 727 over North River, Rockingham County Bridge Replacement, VA. • Route 340 over Gooney Creek Bridge Replacement, Warren County, VA. • Route 1662 over Mudlick Creek Bridge Replacement, Roanoke County, VA. • Route 708 Dry Bridge Road over Buckingham Branch Railroad Bridge Replacement, Albemarle County, VA. • Route 663 over North Fork Shenandoah River Bridge Replacement, Shenandoah County, VA. • Route 11 Southbound Lane over Cedar Creek Bridge Replacement, Shenandoah County, VA. • Route 262/613 Interchange & Design Updates, Augusta County, VA. • Route 1 over Rappahannock Canal Bridge Replacement, Fredericksburg, VA. • Route 46 over Meherrin River Bridge Replacement, Brunswick County, VA. • Route 802 Lewistown Road over I-95 Bridge Replacement, Hanover County, VA. • Route 657 Walney Road Widening Design-Build, Fairfax County, VA. • Route 712 over Waqua Creek Bridge Replacement, Brunswick County, VA. • Route 712 over Sturgeon Creek Bridge Replacement, Brunswick County, VA. • Route 6 over Hardware River Bridge Replacement, Fluvanna County, VA. • Route 1 over CSX Railroad Bridge Replacement, Chesterfield County, VA. • Route 625 over Chickahominy River Bridge Replacement, Hanover and Henrico Counties, VA. • Route 340 over Gooney Creek Bridge Replacement, Warren County, VA. • Route 601 over Whetstone Creek Bridge Replacement, Nottoway County, VA. • Route 627 over Copper Creek Bridge Replacement, Scott County, VA. • Route 158 over Toms Creek Bridge Replacement, Wise County, VA. • I-81 Bridge Replacement Studies, Bristol District, VA. • Route 727 Forest Mills Road over Tributary of Crooked Creek Bridge Replacement, Loudoun County, VA. • Route 635 Tucker Swamp Road over NS Railroad Bridge Replacement, Southampton County, VA. • Route 17 Tignor Creek Improvements, Essex County, VA. • Route 11 over North Fork Shenandoah River Bridge Replacement, Mt. Jackson, VA. • Route 637 over Carlock Creek Bridge Replacement, Smyth County, VA. • Route 102 over Laurel Fork Bridge Replacement, Tazewell County, VA.

Firm employed by: ELOS Environmental, LLC				
Name	Brian Fortson		Years of relevant experience with this employer	13
Title	Senior Project Manager/Biologist		Years of relevant experience with other employer(s)	23
Degree(s) / Years / Specialization			JD/2006/Civil Law BS/1995/Wetland Ecology	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			Project Management, NEPA Clearance, Feasibility Analysis, and Agency Coordination MPR# 14	
08/23 - Ongoing	EBR Off System Bridge Program; East Baton Rouge Parish, LA: Mr. Fortson has coordinated with the environmental scientists to review the wetland delineation reports and assist with USACE permit applications for 13 bridge replacements.			
09/20 - Ongoing	LADOTD Rural Bridges Phases I & II; Statewide, LA: ELOS has been contracted to provide professional environmental consulting services for the LADOTD Rural Bridge Replacement Initiative for two project phases. Phase I involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase 2 is ongoing and involves bridge replacements under nine state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, and 58. Almost all the projects have included a wetland delineation, permit applications, cultural resource survey, and a T&E survey. Mr. Fortson has reviewed wetland delineation reports and categorical exclusion documentation, discussed findings and reviewed data for final reports, and met with staff internally to develop threatened and endangered species surveys.			
09/22 - Ongoing	DOTD IJA Off-System Bridges District 62: This off-system bridge project involves the replacement of six bridges; ELOS is performing wetland delineations, completing permit applications, completing solicitation of views to document categorical exclusions for the work proposed, completing cultural resources research, tribal packets, and reports, and writing navigability determination reports. Mr. Fortson reviewed the findings reports before the team submitted them to the client.			
10/22 – 09/23	LADOTD Rousseau Bridge Replacement; St. Tammany Parish, LA: ELOS was contracted to provide environmental services for the Rousseau Bridge Replacement Project located on approximately 2.62 acres in St. Tammany Parish. Services included a wetland delineation, Scenic Rivers permit application, emergency authorization application to USACE, SOVs, and a final report. Mr. Fortson assisted with the report drafts and permit applications.			
05/21 – 05/22	STP Chris Kennedy RD Bridge Replacement; St. Tammany Parish, LA: ELOS was contracted to provide professional environmental engineering services to collect data to further prepare reports for wetland delineation, biological assessment, and cultural impact in accordance with the removal and replacement plans. To complete the approved contract, Mr. Fortson coordinated with internal teams to review reports, correlative maps, and environmental data.			
03/22 – 12/23	STP Lock No. 2 Bridge Replacement; ST. Tammany Parish, LA: Mr. Fortson assisted internal teams in providing cultural resource services to replace the lock no. 2 bridge on approximately 4.83 acres in St. Tammany Parish. ELOS was contracted to provide Section 106 of NHPA, Terrestrial Phase I Culture Resource Survey and Cultural Resource Assessment No Findings report.			

11/17 - Ongoing	Move Ascension - Phases I, II, & III; Ascension Parish, LA: ELOS has been contracted to plan projects, perform wetland delineations, conduct cultural resource surveys, and submit permit applications for 60 roadway projects, varying from roundabouts to constructing new lanes and connecting roadways, located throughout Ascension Parish. Mr. Fortson leads multi-disciplinary teams of environmental specialists, engineers, and consultants to achieve project objectives efficiently and effectively through the complexities of environmental compliance, ensuring that infrastructure development meets regulatory standards while minimizing environmental impacts and maximizing community benefits.
02/23 - Ongoing	LADOTD Roundabout at Minnesota Park and Range Road; Tangipahoa Parish, LA: ELOS is contracted to complete a wetland delineation report, submit a permit application, and assist with a CATEX, Phase I ESA, and the solicitation of views (SOVs) for the roundabout project at the intersection of Minnesota Park and Range Road. Mr. Fortson monitors the project timelines, milestones, and budgets to ensure the timely delivery of environmental assessments that align with overall project schedules.
01/21 - Ongoing	LA 22 Gapping; Ascension Parish, LA: ELOS is contracted to perform a wetland delineation, complete a joint permit application, complete a biological survey, monitor for bald and golden eagle protection, complete a Phase I ESA, complete a Section 106 review and report, and assist with wetland mitigation planning. Mr. Fortson has served as the project manager, assisting in determining the potential jurisdictional wetlands and other waters, preparing and submitting permit applications, and reviewing the desktop Section 106 review. He will also oversee the Phase I ESA and wetland mitigation planning.
01/22 – 09/22	Judge Dufresne Parkway Extension; St. Charles Parish, LA: ELOS was contracted to conduct a Wetland Delineation, submit Permit Applications, perform a Phase I ESA, and provide a Section 106 Desktop Review for a 161.5-acre site to extend Judge Dufresne Parkway to include several adjacent, privately owned parcels. Mr. Fortson oversaw the environmental consulting project for the parkway extension, ensuring that environmental considerations were integrated into all project phases, regulatory requirements were met, and the project was completed successfully while minimizing ecological impacts. He implemented quality assurance and control measures to ensure deliverables meet established standards and client expectations. Mr. Fortson maintained accurate project documentation, including reports, permits, correspondence, and regulatory filings.
08/17 - 11/19	I-10 Highland to LA 73 Design Build; East Baton Rouge Parish to Ascension Parish, LA: ELOS was contracted to act as the environmental compliance manager responsible for permitting and construction monitoring for the fast-track interstate widening project from Highland Road in Baton Rouge to LA 73 in Prairieville. Mr. Fortson provided senior-level environmental project management for the project, overseeing complex ecological aspects of transportation infrastructure initiatives. He assisted in developing a comprehensive environmental management strategy, wrote and assisted with amending the SWPPP as the project progressed, and prepared and reviewed the permit applications.
07/20 – 08/21	Trace Connection to Heritage Park Stage 0 Checklist; St. Tammany Parish, LA: ELOS was contracted to provide a Louisiana DOTD Stage 0 Environmental Checklist for the Trace Connection to Heritage Park project. The project determined the feasibility of two alternatives for extending the Tammany Trace from U.S. Highway 190 West/Gause Blvd near Cherry Street eastward for approximately 2.7 miles with a 100-foot-wide corridor. Mr. Fortson was the project manager overseeing all fieldwork and coordinating between clients and government agencies.

Firm employed by: ELOS Environmental, LLC				
Name	Julian Blaine		Years of relevant experience with this employer	1
Title	Archaeologist		Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization			MA/2024/Archaeology BA/2021/Viking and Old Norse Studies 2016/German Studies Certificate	
Active registration number / state / expiration date			Secretary of the Interior Registered Professional Archaeologist	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			Section 106 Desktop Reviews, Terrestrial and Maritime Archaeology, Phase I, II, and III Cultural Resource Surveys, Evaluations, and Recoveries, Construction Monitoring MPR# 11	
10/24 - 10/24	Old Mill Settlement Road; Livingston Parish, LA: Mr. Blaine researched cultural resources in support of a Section 106 desktop review for the proposed road project. He researched previous investigations, archaeological sites, cemeteries, and NRHP-listed structures using the Louisiana SHPO database. Additionally, he used historical aerial imagery and topographical maps to document changes to the project area over time. After this research, he recommended completing a field survey.			
11/24 - 11/24	Brownswitch Road Bridge Replacement; St. Tammany Parish, LA: For the St. Tammany bridge replacement project, Mr. Blaine assisted with Section 106 compliance. His responsibilities include conducting a CRM Section 106 desktop review to assess the potential impacts of the bridge replacement on cultural resources. This involves reviewing SHPO databases for historic properties, conducting a cemetery review to identify any burial sites in the area, and assisting with preparing maps and aerial images to support the cultural resource assessment. He also compiled and assisted with writing the review report.			
10/24 - 11/24	LA 22 Gapping; Ascension Parish, LA: For this road project that includes the replacement of two bridges, Mr. Blaine reviewed the Section 106 research prior to the field survey. He assisted with the Phase I Cultural Resource Survey by performing augering and shovel tests, photographing the project area and survey methods, and assisting with the final report preparation. He wrote the introduction and methodology and reviewed the entire report when it was completed prior to submission to the Client.			
07/25 - Ongoing	DOTD Delta Trail Study; Northeastern Louisiana: For this project, which involves analyzing 25 possible bicycle trailhead locations, Mr. Blaine researched their proximity to known archaeological sites. This initial research is part of the Section 106 review process and resulted in recommendations that 2 of the 25 sites could move forward without further analysis and would not adversely impact cultural resources. However, for the remaining 23 sites, Mr. Blaine concluded that a field survey would be needed to confirm the presence or absence of cultural resources.			
08/25 - Ongoing	Fish Hatchery Road Bridge; St. Tammany Parish, LA: Mr. Blaine completed the Section 106 desktop review for this bridge replacement project. After locating several historic properties, four cemeteries, and two investigations, Mr. Blaine recommended that the investigation continue with a survey along Fish Hatchery Road and Bridge at high probability intervals of 30 meters.			
09/25 - Ongoing	Meadow Lane over Spillers Creek; Livingston Parish, LA: Mr. Blaine completed the Section 106 desktop review for this bridge replacement project. After locating three investigations, five archaeological sites, and two cemeteries, Mr. Blaine recommended that the investigation continue with a survey at high probability intervals of 30 meters of the area of potential effect since that specific area has never been surveyed and sites have been discovered along Spillers Creek.			

Firm employed by: ELOS Environmental, LLC				
Name	Christopher Wilson		Years of relevant experience with this employer	2
Title	Archaeologist		Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization		MA/2023/Art History and Curatorial Studies MA/2022/Archaeology BA/2021/Art and Archaeology		
Active registration number / state / expiration date		Secretary of the Interior Registered Professional Archaeologist		
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities		Section 106 Desktop Reviews, Terrestrial and Maritime Archaeology, Phase I, II, and III Cultural Resource Surveys, Evaluations, and Recoveries, Construction Monitoring MPR# 12		
08/23 - 11/24	DOTD Rural Bridge Replacement Phases I & II; Statewide, LA: Mr. Wilson provided CRM (Cultural Resource Management) services for a DOTD rural bridge replacement project. His duties included conducting research, preparing a Phase I report, and managing STP (Shovel Test Pit) data. He coordinated with agencies such as SHPO (State Historic Preservation Office), NRHP (National Register of Historic Places), and DOTD. Additional tasks include preparing transmittal letters, completing LHRI (Louisiana Historic Resource Inventory) forms, managing the Survey123 platform, overseeing field crew activities, and preparing and submitting the final report. Mr. Wilson ensured all documentation and processes met regulatory requirements for cultural resource assessments.			
12/23 - 09/24	DOTD IJA Off-System Bridges District 62: Mr. Wilson provided comprehensive CRM services for the DOTD Off-System Bridges District 62 project. His tasks included conducting background research, preparing desktop reports, and overseeing field crew activities. He utilized topographical maps and aerial investigations to gather critical data. Mr. Wilson also created and submitted tribal packet research and collected CRM information necessary for Categorical Exclusion (CATEX) evaluations. Additionally, he coordinated with agencies such as LHRI, DOTD, and SHPO to ensure compliance with regulations. Mr. Wilson prepared a Section 106 desktop report, assessing potential impacts on historic properties and ensuring the project aligns with cultural resource preservation requirements.			
10/24 - Ongoing	Brownswitch Road Bridge Replacement; St. Tammany Parish, LA: For the St. Tammany bridge replacement project, Mr. Wilson provides CRM services, focusing on Section 106 compliance. His responsibilities include conducting a CRM Section 106 desktop review to assess the potential impacts of the bridge replacement on cultural resources. This involves reviewing SHPO databases for historic properties, conducting a cemetery review to identify any burial sites in the area, and assisting with preparing maps and aerial images to support the cultural resource assessment. He also compiles and creates a detailed Section 106 desktop review report, summarizing findings and ensuring compliance with historic preservation requirements. He also addressed potential impacts to cultural resources in the project area.			

11/23 - 11/23	Tangi Off-System Bridge Prioritization: For the DOTD Off-System Bridge Prioritization Project, Mr. Wilson reviewed the project site to assess the potential effects of bridge replacements on cultural resources. He verified that no cultural resources were present, allowing the project to move forward in accordance with regulatory requirements.
11/23 - 11/23	N. Brickyard Road Bridge Replacement; Tangipahoa Parish, LA: Mr. Wilson reviewed the project site to assess with the potential effects of the bridge replacement on cultural resources. He verified that no cultural resources were impacted, allowing the project to move forward in accordance with regulatory requirements.
07/24 - 08/24	US 190 Roundabouts; St. Tammany Parish, LA: Mr. Wilson was responsible for CRM services for constructing three roundabouts along Highway 190 in St. Tammany to support Section 106 compliance. His responsibilities included SHPO files, including all previously recorded cultural resource surveys, archaeological sites, and historic structures within a 1-mile radius. He also compiles reviews and reports to summarize findings and addresses potential impacts on cultural resources, including cemetery reviews.
10/24 - 10/24	Old Mill Settlement Road; Livingston Parish, LA: Mr. Wilson was responsible for performing a Section 106 desktop review in support of Livingston Parish Government for their proposed road project. His responsibilities included, but were not limited to, working with all applicable state agencies and adhering to the regulations of 36 CFR Part 800. He verified that the site had experienced some disturbances due to road construction and that there was a high probability of possible Cultural resources due to the proximity of the Amite River and the previously recorded archaeological sites.
07/24 - 09/24	Juban North Extension; Livingston Parish, LA: Mr. Wilson provided a Section 190n desktop review for Livingston Parish Juban Road Extension. He researched and reviewed historical maps, aerial photographs, and the online database of archaeological and historic sites maintained by SHPO. He found that 11 cultural resource investigations had occurred within one mile of the project area. He also reviewed historical topographical maps and aerials. Mr. Wilson recommended a historic structure survey because the site had not previously been heavily altered through construction.
03/24 - 04/24	5th Street Improvements (H.012885); Jefferson Parish, LA: Mr. Wilson performed a Phase I Cultural Resource Survey of a 0.5-mile radius of the projected improvement project. This included a pedestrian survey, taking systematic photos, recording addresses of all historic structures, and completing all Louisiana Historic Resource Inventory forms. The buildings were found not eligible, but it was noted that they are in a potentially eligible district as a Postwar Commercial Strip. He developed a plan for any cultural material encountered, labeled with provenance and temporarily curated by ELOS. Ultimately, he recommended that the project proceed as planned after concluding that no significant cultural resources would be impacted.
06/24 - 10/24	Move Ascension, Phase III; Ascension Parish, LA: Mr. Wilson was responsible for conducting a Section 106 Desktop Review of the Roddy Road area as part of the third phase of the Move Ascension project. This review included identifying potential historic structures by using SHPO databases and files. He also reviewed historic aerial images for structures in the area. He could locate from the multiple sources that there were historical structures. He compiled his findings and met with GIS to report them.
10/23 - 02/24	Tangipahoa USDOT BIP Services 2023; Tangipahoa Parish, LA: Mr. Wilson performed a Cultural Resource Review of previous investigations. These investigations included surveys, cemeteries, and listings of historic structures. He coordinated with the project manager and SHPO while conducting and documenting the review.

Firm employed by: ELOS Environmental, LLC				
Name	Sarah Knauer		Years of relevant experience with this employer	1
Title	Architectural Historian		Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization		MS / 2020 / Historic Preservation BS / 2016 / Anthropology		
Active registration number / state / expiration date				
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities		National Register Writing, Historic Structure Research, Historic District Management MPR# 13		
09/25 - Ongoing	Clearwater Dr over Millers Canal Bridge Replacement; Livingston Parish, LA: Ms. Knauer has assisted with the Section 106 desktop review and identified all historic structures within the area of potential effect. She also assisted with QA/QC for the draft of the review report and edited the report for overall consistency and clarity.			
2025	Bridge Replacement on SR-20 Over Norfolk Southern Railroad; Morgan County, AL. TerraX was contracted by AECOM to conduct a cultural resources survey. The survey included background research, archaeological and architectural surveys, and report preparation. The archaeological survey identified one site associated with a historic African American residential block dating from 1860 to 1990. Fifty-eight architectural resources were identified; fifteen were newly identified. Seven of the structures appeared to be eligible or listed on the NRHP. Ms. Knauer researched, evaluated, and determined the significance of each historic resource and wrote the architectural history results portion of the report.			
2024	Proposed South Boulevard Widening and Bridge Replacement over CSX Transportation Railroad Project; Montgomery County, AL: TerraX was contracted by TTL of Montgomery to conduct a cultural resources survey. The survey included background research, archaeological and architectural surveys, and report preparation. Twenty-three new architectural resources were identified, and twenty-one were recommended as ineligible for NRHP inclusion. The Northwest and Florida Railroad and the First CME Church were recommended as eligible for NRHP inclusion. Ms. Knauer researched, evaluated, and determined each historic resource’s significance and wrote the report’s architectural history results portion.			
2024	National Register Listing: Hammond High Gymnasium; Hammond, LA: Ryan LLC, was privately contracted to list a building on the National Register of Historic Places to procure tax credits. Ms. Knauer, Associate Historic Tax Credit Consultant, conducted the research and documentation and drafted the final NR nomination submission. Beth Jacobs, Senior Historic Tax Credit Consultant, reviewed this and then presented the nomination to the Louisiana SHPO and NPS—a Phase I Cultural Resources Survey for the Hill View Substation Project.			
2021-2022	Hollygrove Historic District Survey; Hollygrove, LA: Ryan LLC was contracted by a real estate investor to conduct a historic resource survey in 2021. This project included surveying parcels, evaluating resources, providing recommendations for preservation, and establishing district eligibility. The survey documented the 1,000+ buildings and structures in the historically African American neighborhood of Hollygrove. Ms. Knauer served as one of two HTC consultants, wrote sections of the individual architectural styles and types, and completed 40% of the LHRI forms. The historic was successfully listed in 2022.			

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Firm employed by Bluewing Civil Consulting, LLC				
Name	Simon “Alex” Guillory, CFM, PE		Years of relevant experience with this employer	11
Title	Principal		Years of relevant experience with other employer(s)	16
Degree(s) / Years / Specialization			ME, 2010 – Civil Engineering, Water Resources Engineering BS, 2008 – Civil Engineering	
Active registration number / state / expiration date			LA PE 37874 – Expires 09/30/2027	
Year registered	1998	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Engineer of Record	
Mr. Guillory has 16 years of experience in civil, roadway and municipal design and consulting. Mr. Guillory is experienced in all aspects of drainage, hydrology, and hydraulics; transportation design including environmental investigation and mitigation; structural pavement design; site prep; construction engineering and inspection; utility coordination and relocation; and pavement preservation and maintenance.				
August 2019-2025		Sara Street Bridge Lake Charles, LA - Project Engineer. BWC Design Manager for off-system bridge replacement project in Sulphur, LA for the Calcasieu Parish Police Jury. Project scope includes bridge design, road geometrics & drainage, channel revetment & erosion protection; utility coordination and relocations; management of design sub-consultants including survey, geotechnical engineering, and environmental; responsible charge of construction plan production including temporary traffic control. Final Construction Cost = \$1,347,660		
May 2021-Oct 2021		St. Mary Street Bridge Scour Analysis Elton, LA -Project Engineer. Assisted in the development of watershed delineation. Performed the streambed profile.		
August 2021–May 2022		Manual Road Bridge Replacement Jeff Davis Parish, LA -Project Engineer. BWC developed plans for a custom and unconventional repair to Manual Rd bridge in Jeff Davis Parish. A previous bridge replacement project left pre-cast concrete slabs improperly supported by the bridge end bents. This improper cantilevered support condition caused cracking to the deck. The repair included saw cutting the existing pre-cast concrete deck at both end abutments, replacing the approach slab foundation, and rebuilding the approach slab. Final Construction Cost = \$80,155.00		
December 2022 – Present		Belfield Ditch Multi-road Crossing Replacement Moss Bluff, LA - Project Engineer. The Belfield Ditch in Moss Bluff, LA crosses many roadways as it drains to Little Indian Bayou. Sharon Lane, Debra Lane, and Gateway Drive are three crossings that the Calcasieu Parish Police Jury identified to be critical drainage structures that needed replacement. Belfield Ditch Multi-road Crossing Replacement project consists of the replacement of these cross drainpipes and adjusting the flowlines in preparation for future channel improvements. The engineered crossings consist of aluminum box culverts along with roadway repairs and subsurface drainage networks. Engineer’s Cost Estimate = \$3,653,320.00		

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April 2025 - Present	APPJ Poplar St. Bridge Replacement - Project Engineer of record for off-system bridge replacement project in Elizabeth, LA for the Allen Parish Police Jury. Project scope includes bridge design, road geometrics & drainage, channel revetment & erosion protection; utility coordination and relocations; management of design sub-consultants including survey, geotechnical engineering, and environmental; responsible charge of construction plan production including temporary traffic control. Engineer's Cost Estimate = \$1,600,000
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Firm employed by Bluewing Civil Consulting, LLC				
Name	Mark B. Dubroc, PE		Years of relevant experience with this employer	1
Title	Senior Engineer		Years of relevant experience with other employer(s)	44
Degree(s) / Years / Specialization		BS, 1980 – Civil Engineering, Louisiana State University		
Active registration number / state / expiration date		LA PE – 22618 Exp. 03/31/2027		
Year registered	1987	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Design Reviewer		
Mark B. Dubroc is a Senior Engineer with over 42 years of professional civil engineering experience. As a young engineer for Sellers, Dubroc & Associates from 1981 to 1994, and as a Principal of Dubroc Engineering, Inc. for 23 years (1994 - 2017), Mr. Dubroc gained extensive experience in civil engineering design and consulting, with a wide variety of clients and projects including urban and rural roadway and drainage designs, highway bridge design, solid waste transfer facilities, site planning, residential land developments, municipal water and sewer collection systems, and various other civil and structural design projects. Mr. Dubroc served as Director of Public Works for Lafayette Consolidated Government from 2017 to 2020, where he managed 335 Public Works employees, with an operating budget of \$58M, an annual Capital Improvement Program of \$50M, and a 5-Year Capital Plan budget of \$250M, which included 375 projects. He managed the Capital Improvements Division, which included the Design & Development Section, ROW Section, Project Control Section and the Estimates and Administration Section. He also managed the Operations Divisions, which included street and drainage maintenance, and the Traffic and Transportation Division which was responsible for traffic engineering, traffic maintenance (signs and markings), traffic signals maintenance transit operations, and parking. Mr. Dubroc was employed by C.H. Fenstermaker from 2020-2023, primarily developing and managing the engineering department QA/QC program. He has recently joined the staff of Bluewing Civil Consulting (2023) as a senior engineer.				
August 2000-July 2017		LADOTD S.P. No. H.005508 Verot School Road Urban Section (LA 339) Widening and H.005698 Drainage Outfalls, Lafayette Parish, LA Principal and Project Manager Mr. Dubroc served as the Principal and Project Manager for this \$44.2 million project for the widening of 3.3 miles of rural 2-lane open ditch highway to urban 4-lane median-divided and 5-lane arterial roadway with extensive subsurface drainage systems, including major drainage improvements to 3 subsurface drainage systems. Mr. Dubroc provided project management and design engineering (including drainage, of DOTD roadway design and plan development (Topographic and ROW surveys and maps, and preliminary and final plans).		

January 1982- August 1986	S.P.#455-05-25: Route I-49 – Alexandria Urban Segment- Section 16 - Rapides Parish, LA - Early in his career, Mr. Dubroc served as design engineer for this elevated interchange structure, providing precast concrete girder analyses and design of decks and approach slabs, and engineering services during construction (shop drawing review) for this LADOTD project.
June 1983- April 1987	S.P. #455-08-12: Route I- 49 – Shreveport Urban Segment – Section 8 - (Caddo Parish, LA): Early in his career, Mr. Dubroc served as design engineer for this elevated interchange structure, providing precast concrete girder analyses, column bent designs, and design of decks and approach slabs, and engineering services during construction (shop drawing review) for this LADOTD project.
April 2025- Current 	APPJ Poplar St. Bridge Replacement - Senior Engineer. Reviewer for off-system bridge replacement project in Elizabeth, LA for the Allen Parish Police Jury. Project scope includes bridge design, road geometrics & drainage, channel revetment & erosion protection; utility coordination and relocations; management of design sub-consultants including survey, geotechnical engineering, and environmental; responsible charge of construction plan production including temporary traffic control. Engineer's Cost = \$1,600,000

Firm employed by Marrero, Couvillon & Associates, LLC.				
Name	M. Kimball Schlafly, P.E.		Years of relevant experience with this employer	5
Title	Sr. Electrical Engineer		Years of relevant experience with other employer(s)	32
Degree(s) / Years / Specialization			BS / 1988/ Electrical Engineering	
Active registration number / state / expiration date			PE LA License No. 27699 / Exp. 09/30/2026	
Year registered	1998	Discipline	Electrical Engineering	
Contract role(s) / brief description of responsibilities.			Sr. Electrical Engineer	
Experience dates	Experience and qualifications relevant to the proposed contract			
Mr. Schlafly has over 35 years of engineering experience in electrical engineering, project engineering and project management. He has been responsible for various projects requiring design of roadway lighting, low and medium voltage power distribution, standby and emergency power systems, telecommunications, fire alarm, access control, video surveillance, and theatrical audio/visual and lighting systems.				
07/17 –11/20	I-10 and 73 Widening – Design Build. LA DOTD. Sr. Electrical Engineer. Provided electrical engineering and design for lighting on the I-10 Widening from Highland to LA 30 design-build project.			
04/18 – 02/19	Howard Avenue Extension (Loyola Avenue to LaSalle Street) New Orleans, LA. City of New Orleans. Sr. Electrical Engineer. Marrero, Couvillon & Associates is responsible for the Electrical Services for the Howard Avenue Extension. Work includes revising roadway lighting from high pressure sodium lights to LED lights per new City of New Orleans Standards. Revisions include changing light fixtures, downsizing electrical conductors and revising drawings including bill of materials. Performing lighting calculations and following illumination guidelines per the latest IES roadway lighting recommended practices issued in 2014.			
01/20-06/20	Bluebonnet Blvd. (Picardy to Highland) Roadway Lighting, Baton Rouge. City/Parish of East Baton Rouge. Sr. Electrical Engineer. The scope of work includes additional lane capacity in each direction. Bluebonnet Blvd is two lanes in each direction currently. Pedestrian facilities are interspersed throughout the corridor and there is commercial development abutting the corridor. The project is to add an additional travel lane in each direction and provide for connected pedestrian facilities throughout the corridor. MCA is responsible for all activities necessary to complete a lighting plan and a photometric analysis report that contains illumination analysis of all roadways and/or interchanges within the project limits and conform to illumination criteria specified in the design guidelines are included in this scope.			
09/23-On-going	I-20 Widening, Wells to LA34 Electrical and Lighting Design , Baton Rouge. LA DOTD. Sr. Electrical Engineer. The scope of work is to provide additional traffic capacity in each direction. This was accomplished primarily by increasing the entrance/exit ramps. MCA provided design services to analyze the existing conditions of the roadway lighting, which consisted of high pressure sodium fixtures on low mast poles, and provide modifications to the existing lighting systems as necessary to accommodate the changes in roadway geometry. This includes upgrading the existing fixtures to LED, re-position select poles, and upgrading the secondary controllers to current standards.			

Huval and Associates, Inc.

9/2023-Ongoing	I-10 and Pecue Lane - Lighting design, Baton Rouge. East Baton Rouge, City Parish /LA DOTD. Sr. Electrical Engineer. Currently, there is no access to I-10 from Pecue Lane and the existing Pecue Lane consists of 2 traffic lanes. The existing overpass will be removed and replaced with two overpass structures, with 3 lanes in each direction. Pecue Lane will be reconstructed to a curb and gutter section, with a raised median and 3 lanes in each direction. South of I-10 there will be two bridge structures for Pecue to cross Ward's Creek. Cost: \$36M
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Firm employed by Marrero, Couvillon & Associates, LLC.				
Name	Christian Schade, P.E.		Years of relevant experience with this employer	8
Title	Sr. Electrical Engineer		Years of relevant experience with other employer(s)	24
Degree(s) / Years / Specialization			BS / 1993/ Electrical Engineering	
Active registration number / state / expiration date			PE LA License No. 32483 / Exp. 09/30/2026	
Year registered	2006	Discipline	Electrical Engineering & Computer Engineering	
Contract role(s) / brief description of responsibilities.			Sr. Electrical Engineer	
Mr. Schade’s areas of expertise include electrical engineering for roadway lighting, power distribution, power generation, lighting, specification writing and contract administration. His experience includes Power system analysis, consisting of load flow, fault, arc flash and coordination studies using SKM Power Tools for Windows and ETAP. Proficient with incident energy level method of Arc Flash calculations per NFPA 70E, 2015 version. Electrical design support for small to medium size projects in industrial facilities, including installation of new pumps, agitators, metering equipment, lighting, and power distribution centers				
07/17 – 11/20	I-10 and 73 Widening – Design Build. LA DOTD. Sr. Electrical Engineer. Provided electrical engineering and design for lighting on the I-10 Widening from Highland to LA 30 design-build project.			
04/18 – 02/20	France Road – North, Roadway and Drainage Improvements, New Orleans, LA. Port of New Orleans. Sr. Electrical Engineer. MCA provided the electrical and mechanical engineering services for the roadway, lighting, and drainage improvements.			
11/16 – 6/17	Louis Armstrong New Orleans Airport International Airport Pavement Remediation at Eastern Side of Runway 11-29, Kenner, Louisiana. City of New Orleans. Sr. Electrical Engineer. Electrical design services for Pavement Remediation of sag in existing runway pavement on the eastern side of Runway 11-29 near Taxiway Alpha at the airport.			
04/18 – 02/19	Howard Avenue Extension (Loyola Avenue to LaSalle Street) New Orleans, LA. City of New Orleans. Sr. Electrical Engineer. Marrero, Couvillon & Associates is responsible for the Electrical Services for the Howard Avenue Extension. Work includes revising roadway lighting from high pressure sodium lights to LED lights per new City of New Orleans Standards. Revisions include changing light fixtures, downsizing electrical conductors and revising drawings including bill of materials. Performing lighting calculations and following illumination guidelines per the latest IES roadway lighting recommended practices issued in 2014.			

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01/20-06/20	Bluebonnet Blvd. (Picardy to Highland) Roadway Lighting, Baton Rouge. City/Parish of East Baton Rouge. Sr. Electrical Engineer. The scope of work includes additional lane capacity in each direction. Bluebonnet Blvd is two lanes in each direction currently. Pedestrian facilities are interspersed throughout the corridor and there is commercial development abutting the corridor. The project is to add an additional travel lane in each direction and provide for connected pedestrian facilities throughout the corridor. MCA is responsible for all activities necessary to complete a lighting plan and a photometric analysis report that contains illumination analysis of all roadways and/or interchanges within the project limits and conform to illumination criteria specified in the design guidelines are included in this scope.
06/25-On-going	Grand Prairie Rest Area Lighting Upgrade – St. Landry Parish. LA DOTD. Sr. Electrical Engineer. MCA is providing the design for a complete replacement of all exterior lighting at the rest area. The rest area has roadways, parking areas, walk paths to pavilions, and a separate boat launch and parking lot. The scope of work includes the removal of existing high mast lighting and replacement with low mast and walkway lighting in all areas. All new underground circuitry shall be provided to the new lighting, along with new lighting controls.

Section 17. Firm Experience

Firm Name	Huval & Associates, Inc.		Discipline(s)*	Bridge
Project name	IDIQ Retainer Contract for Bridge Preservation Statewide		Firm responsibility (prime or sub?)	Prime
Project number	4400017262	Owner's name	LADOTD	
Project location	Louisiana Statewide		Owner's Project Manager	Andrew Windmann, P.E.
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70804-9245, (225)379-1074, Andrew.windmann@la.gov			
Services commenced by this firm (mm/yy)	05/2020	Total consultant contract cost (\$1,000's)		\$ 5,000
Services completed by this firm (mm/yy)	05/2025	Cost of consultant services provided by this firm (\$1,000's)		\$2,194

As the Prime, HUVAL is responsible for Preliminary and Final Plans, Surveying Services, Bridge/Structural Inspection and Evaluation, Design Peer Review, Load Rating of Bridges, and Construction Services. Projects performed using LRFD and LRFR design. Completed and On-going Task Orders include:

LA 454 over Wiggins Bayou Bridge and Roadway Replacement, T.O. H.012545.5: Preparing 90% and 100% preliminary plans and 60%, 90%, and 100% Final Bridge Design and Roadway Design Plans with estimated construction cost. Environmental and feasibility studies to realign the channel to mitigate future embankment erosion. The new structure will consist of LG 36 girder spans supported by concrete pile bents. Sub-consultants will perform geotechnical and hydrology surveys.

I-20 Bridge Evaluations and Median Barriers Design – US 165 East of Garret Road, T.O. H.014646.5
- Performing load ratings using the LRFR method, adhering to the latest DOTD BDEM. Repair and rehabilitation plans will be provided from the analysis while taking into account the future widening of I-20 and the effects of raising the existing structure to provide adequate vertical clearance for I-20. This will be determined in the bridge study which will look at the effects to the existing bridges, box culverts, roadway geometry, and proposed vertical clearance (16'6"). Submittals consist of Final Roadway, Bridge and Median Barrier Plans.

I-10 over I-49 Emergency Repairs, T.O. H.015412.5: Huval provided emergency design engineering for an emergency repair of the I-10 overpass over I-49. Performed detailed inspection of the damaged structure and designed a replacement section of three concrete girders and deck.

US 90-W: US 90 over Bayou Ramos Repairs, T.O. H.015114.5 : Huval is tasked with providing design engineering services for permanent bridge repairs for the LA 182 Bridge over Bayou Ramos. This included preparing a summary of the damage assessment, developing repair concepts, and creating detailed bridge repair plans. Huval also identified necessary traffic control measures, providing specifications, quantities, and an opinion of probable construction costs, as well as preparing an as-designed load rating report. The project required the submission of 60%, 95%, and 100% Final Repair Plans, with the 95% and 100% submittals including cost estimates and detailed specifications.

Team Members to be Utilized on Retainer:

Thomas Gattle, Project Manager/Lead Design
Colby Guidry, Lead Bridge Design, Ratings, Bridge Inspections

Justin Peltier, Bridge Design, Inspections

Lee Hupperich, Movable Bridge Design, Construction Support

Reid Romero, Bridge Design, Ratings

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



Huval and Associates, Inc.

Firm name	Huval & Associates, Inc.		Discipline(s)*	Bridge
Project name	IDIQ Retainer Contract for Bridge Preservation Statewide		Firm responsibility (prime or sub?)	Prime
Project number	4400023923	Owner's name	LADOTD	
Project location	Louisiana Statewide		Owner's Project Manager	Jenny Fu, P.E.
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70804-9245, (225)379-1074, Jenny.Fu@la.gov			
Services commenced by this firm (mm/yy)	09/22	Total consultant contract cost (\$1,000's)		\$ 7,000
Services completed by this firm (mm/yy)	On- Going	Cost of consultant services provided by this firm (\$1,000's)		\$1,621

As the Prime, HUVAL is responsible for Preliminary and Final Plans, Surveying Services, Bridge/Structural Inspection and Evaluation, Design Peer Review, Load Rating of Bridges, and Construction Services. Projects performed using LRFD and LRFR design. Completed and On-going Task Orders include:

LA 6 Youngs Bayou Bridges T.O. H.013821: Huval as the prime, is responsible for preparing final plans and cost estimates to address abutment and embankment failures at the Youngs Bayou Bridges in Natchitoches Parish. The project scope includes designing a soil nail stabilization system to reinforce slopes, implementing drainage modifications to address conflicts, and remediating degraded approach slabs. Huval is developing detailed plans, conducting design analyses, and coordinating geotechnical and structural engineering efforts to ensure safe and effective mitigation measures.

Nutland Road Embankment Failure T.O. H.007300- Huval is tasked with addressing the ongoing embankment failures on the north and south sides of the Nutland Road Bridge crossing I-20 in Monroe, Louisiana. To mitigate these failures, Huval will conduct geotechnical investigations, including soil borings, laboratory testing, and slope stability analyses, to develop appropriate repair recommendations. Additionally, Huval will prepare cleaning and painting plans for the Pecan Lane I-20 Flyover Exit Bridge, including estimated quantities for the engineer's cost estimate. Deliverables include detailed reports, phased plan sets, and finalized repair designs, all aligned with DOTD's schedule and requirements.

Wiggins Bayou Construction Services T.O. H.012545.6: Huval will provide construction services for the replacement of the Wiggins Bayou Bridge on LA 454 in Avoyelles Parish. Responsibilities include reviewing and transmitting shop drawings and material submittals, evaluating girder erection plans and formwork, responding to contractor RFIs, and attending the Pre-construction Conference. Huval will also perform field visits as required by DOTD and provide design services for necessary change orders.

LA 94 Construction Services T.O. H.014560.6: Huval will oversee construction services for the Vermilion River Bridge replacement on LA 94, spanning Lafayette and St. Martin Parishes. Key tasks include reviewing plans for the diversion bridge, formwork, and bearing pads, as well as addressing contractor RFIs. Additionally, Huval will perform field visits as required by DOTD and provide design support for any necessary change orders. All deliverables will comply with DOTD's timelines and standards to ensure successful project execution.

Team Members to be Utilized on Retainer:

David S. Huval, Sr., Supervisor Engineer, Principal
Colby Guidry – Project Manager / Lead Bridge Design, Inspections

Lee Hupperich, Lead Movable Bridge Design

Thomas Gattle – Lead Roadway Design

Justin Peltier, Bridge Design and Ratings

Reid Romero, Bridge Design and Ratings

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



Huval and Associates, Inc.

Firm name	Huval & Associates, Inc.		Discipline(s)*		Road and Bridge	
Project name	I-10 Widening Baton Rouge, CMAR Design Services			Firm responsibility (prime or sub?)		Prime
Project number	H.004100	Owner's name	LADOTD			
Project location	Baton Rouge, Louisiana			Owner's Project Manager	Nicholas Oliver, P.E.	
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70804, (225) 379-1133, nick.olivier@la.gov					
Services commenced by this firm (mm/yy)		2020	Total consultant contract cost (\$1,000's)			\$20,796
Services completed by this firm (mm/yy)		Present	Cost of consultant services provided by this firm (\$1,000's)			\$6,390

HUVAL is the Prime Consultant and Lead Designer for the design phase of the I-10 Widening and Reconstruction project through the heart of Baton Rouge. The project will provide detailed design and plan preparation for the urban freeway and arterial and neighborhood feeder streets. The first part of this project, RCP Plans, Huval prepared the geometric layout and R/W taking lines for the entire corridor.

The RCP plans included external agency stakeholder meetings such as with EBR, geometric layout of the mainline I-10 and ramp interchanges, roundabouts, intersections and other project features such as multi-use path throughout the corridor. Also included is preliminary bridge design of I-10 mainline and cross-street bridges. The project includes plan/profile sheets for roadways and General Plan and Elevation (GPE) sheets for the bridges used in preparation of R/W maps and R/W acquisition by others.

HUVAL was also responsible to assist the LADOTD with project segmentation (to determine useable construction segments and MOT) and development of formal documents for Project Management Plan, Project Implementation Plan, Project Financial Plan, and Project Risk Matrix. These documents will provide the blueprint to help guide the project to completion over multi-year implementation period. Public information and outreach will be conducted continuously throughout the design phase.

HUVAL, with the cooperation of Subconsultants, DOTD and CMAR Contractor, is designing both the roadway and bridge for the stages of construction and final layout of the first phase of the project extending from the I-10 EB Mainline Ramp past the City Park Lake Bridge.

HUVAL's direct roadway design responsibilities for mainline I-10 include typical sections, geometric layout, drainage design, cross-sections, sequence of construction, and temporary traffic layout and signing. The project is anticipated to contain 5 major stages that will be constructed over a 4 -5-year period. As the Prime Consultant, HUVAL is coordinating all aspects of this complex project with our Subconsultants and Stakeholders.

HUVAL is performing 100% of this work in the State of Louisiana.

Key Project Members:

Bob Schmidt, Project Manager

Thomas Gattle, Lead Design Engineer (Road)

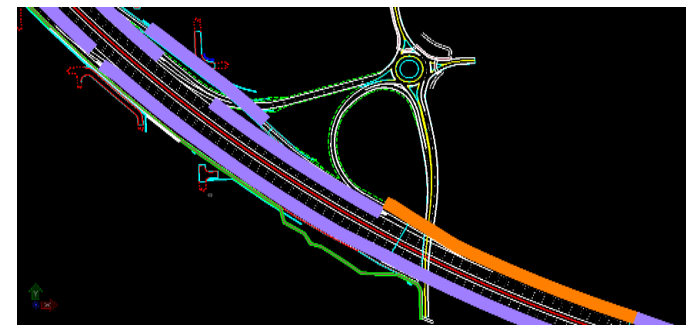
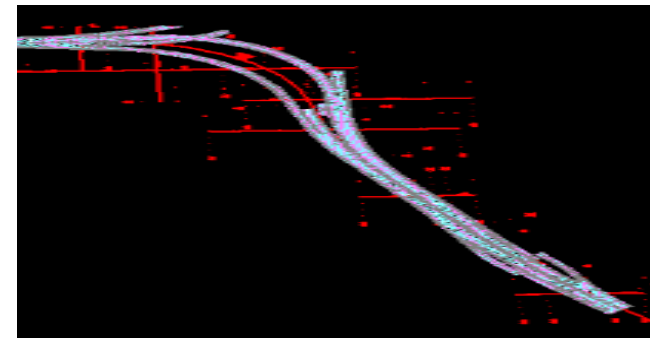
Nick Helminger, Design Engineer (Road)

Colby Guidry, Lead Design Engineer (Bridge)

Reid Romero, Design Engineer (Bridge)

Mathew Hebert, Design Engineer (Bridge)

Justin Peltier, Lead Design Engineer (Bridge)



Huval and Associates, Inc.

Firm name	Huval & Associates, Inc.		Discipline(s)*	Bridge
Project name	Jimmie Davis Bridge (LA 511- Design-Build Project)		Firm responsibility (prime or sub?)	Prime
Project number	H.001779	Owner's name	LADOTD	
Project location	Shreveport, Louisiana (Bossier / Caddo Parish)		Owner's Project Manager	Catherine Mastin, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70804, (225)379-1652 , catherine.mastin@la.gov			
Services commenced by this firm (mm/yy)	03/23	Total consultant contract cost (\$1,000's)		\$ 12,950
Services completed by this firm (mm/yy)	On-Going	Cost of consultant services provided by this firm (\$1,000's)		\$ 5,640

Huval and Associates, along with James Construction as the Contractor, are the main design engineers for the project to construct the new four-lane bridge across the Red River in Bossier / Caddo Parish. The project includes the reconstruction of nearly two miles of LA 511 into a modern, four-lane median-divided highway. The project encompasses the creation of full access interchange connections at two key junctions: Arthur Ray Teague Parkway and Clyde Fant Memorial Parkway. These interchanges will seamlessly integrate with the upgraded LA 511.

A critical component of the project is the temporary work platforms designed by Huval. These platforms are installed on both sides of the Red River, providing stable and secure foundations for cranes and other heavy equipment. These support platforms will enable efficient and safe construction across the river and the approaches, while also supporting the dynamic loads of construction activities.

The initiative also includes the transformation of the existing Jimmie Davis Bridge into a Linear Park. This includes the full rehabilitation of the existing truss bridge that includes deck and barrier replacement, girders and truss repairs, bearing replacement and rehabilitation and pier and bent repairs. Under the bridge rehabilitation, the structure shall be retrofitted to provide vibrant public space, featuring new multi-use paths for pedestrians and cyclists. Elevated ramps will connect these paths, providing seamless access to the heart of the Linear Park. The design portion of this project is 95% complete.

Key Project Members:

David S. Huval, Sr., Principal
Thomas Gattle, Project Manager – Design Manager
Justin Peltier, Bridge Design Engineer
Reid Romero, Bridge Design Engineer
Nick Helminger, Roadway Design Engineer
Colby Guidry, Bridge Design Q.C.



Huval and Associates, Inc.

Firm name	Huval & Associates, Inc.		Discipline(s)*	Bridge
Project name	Herman Dupuis Rd. Pontoon Bridge Replacement			Firm responsibility (prime or sub?) Prime
Project number	N/A	Owner's name	St. Martin Parish Government	
Project location	Butte La Rose, LA		Owner's Project Manager	Kasey Courville, P.E.
Owner's address, phone, email	P.O. Box 9, St. Martinville, LA 70582, (337) 394-2200, kcourville@stmartinparish.net			
Services commenced by this firm (mm/yy)	01/19	Total consultant contract cost (\$1,000's)		\$726
Services completed by this firm (mm/yy)	05/23	Cost of consultant services provided by this firm (\$1,000's)		\$726

Huval & Associates, Inc. (HUVAL) was contracted to provide all necessary engineering required for developing plans for the replacement of the Herman Dupuis Rd. Pontoon Bridge. The pre- existing single lane pontoon bridge was closed frequently due to high water levels and structural repairs as required.

HUVAL prepared Design and Construction Plans for a two lane 125 ft. unequal arm steel girder swing span with 145 ft. of concrete slab span approaches. The bridge structure had to be designed on existing alignment in a tight area under vertical constraints to minimize impact to the adjacent roadways, private property, water levels, and the Atchafalaya Basin Levee adjacent to the bridge. The HPU and control panel will be located on the structure to reduce construction cost by eliminating the need for an operator's house. The new bridge will better meet the needs of the community by increasing safety, traffic capacity, improving stopping sight distance, and eliminating closures due to water levels.

HUVAL's responsibilities on this project included the following:

- Structural design of the concrete slab span approach superstructure
- Structural and Geotechnical design of the slab span approach substructure
- Structural and Geotechnical design of the concrete substructure on the movable span
- Structural design of the steel superstructure on the movable span
- Mechanical and Hydraulic Systems design
- Electrical design
- Traffic barrier design
- Final plans were completed in 2021 and the job is now under construction. Huval is currently providing construction services including; shop drawing review, RFI's. Installation and operation inspection of mechanical systems, shop visits, site visits.
- Construction is complete and the bridge was fully opened in May of 2023.

Key Project Members:

David Huval, Sr., Principal, Structural Design, Construction Support

Nick Helminger, Roadway Design

Reid Romero, Lead Structural Design

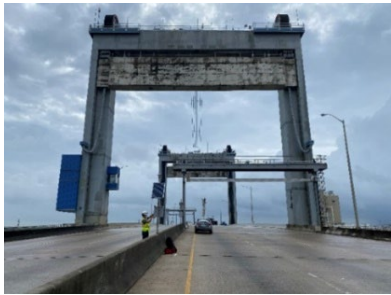
Lee Hupperich, Lead Mechanical and Electrical Design, Construction Support

Colby Guidry, Structural Design and Support



Huval and Associates, Inc.

Firm name	Wiss, Janney, Elstner Associates, Inc.			Discipline(s)	Bridge	
Project name	Danziger Lift Bridge Repair				Firm responsibility (prime or sub?)	Prime/Sub
Project number	Contract 4400009424, H.000303.6; 44-21594, H.000303.6,	Owner's name		Louisiana Department of Transportation and Development		
Project location	New Orleans. LA			Owner's Project Manager	Mark Bucci	
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70802; (225) 379-1076; mark.bucci@la.gov					
Services commenced by this firm (mm/yy)		07/2019	Total consultant contract cost (\$1,000's)			\$1,662
Services completed by this firm (mm/yy)		07/2025	Cost of consultant services provided by this firm (\$1,000's)			\$1,464



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

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

Members involved: J. McGormley (Project Manager), S. Lauer (Project Engineer), J. Williams (Project Mechanical Engineer), G. Rees (Project Electrical Engineer).

Huval and Associates, Inc.

Firm name	Wiss, Janney, Elstner Associates, Inc.			Discipline(s)	Bridge	
Project name	T-1 Steel Weld Inspections and Repairs of Three Existing Bridges				Firm responsibility (prime or sub?)	Sub
Project number	H.009730.4, 44-21594 H.009730.5, 44-21594	Owner's name		Louisiana Department of Transportation and Development		
Project location	Vicksburg, Mississippi, and New Orleans and Morgan City, Louisiana		Owner's Project Manager	Kelly M. Kemp (IWGO); Stepanie Doolittle, P.E. (I-20); Bradley Mistich, P.E. (US 90)		
Owner's address, phone, email		DOTD, Office of Engineering, P.O. Box 94245, Baton Rouge, LA 70804; 225.379.1809, Kelly.Kemp@LA.GOV; 225.379.1329. Stephanie.Doolittle@la.gov; 225.379.1544, Bradley.Mistich@la.gov				
Services commenced by this firm (mm/yy)		12/2022	Total consultant contract cost (\$1,000's)			\$1,303
Services completed by this firm (mm/yy)		08/2025	Cost of consultant services provided by this firm (\$1,000's)			\$724

In December 2021 the Federal Highway Administration (FHWA) provided direction to states for in-service inspection and testing of butt welds in bridges that included fracture critical members fabricated from AASHTO M244 Grade 100 (ASTM A514/517) steel, commonly identified as “T-1” steel. Louisiana Department of Transportation and Development (LADOTD) identified three bridges subject to the inspection program. WJE’s objective was to perform visual and ultrasonic examination of the butt welds joining T-1 steel plates using conventional ultrasonic testing. WJE subsequently inspected 332 welds. A portion of the UT work was performed by WJE’s subconsultant and with quality assurance provided by WJE inspectors.

The Intracoastal Waterway Gulf Outlet (IWGO) in New Orleans was constructed in 1967 with the 6,622-foot-long structure carrying two lanes of traffic in each direction over the Intracoastal Waterway Gulf Outlet. The truss spans have a total length of 1,248 feet and are comprised of two anchor/cantilever spans and one tied-arch suspended span. WJE, aided by a subconsultant, performed ultrasonic inspection of 146 butt welds and identified 14 welds with critical findings. The critical findings at 12 of the welds were removed by coring. The two remaining welds with rejectable defects were too large to remove through coring without adversely affecting the rating factor of the member, so four repair options were developed and recommendations were provided. The DOTD elected to grind out the defects without restoring the member cross section. WJE self-performed this repair work in December 2024. A load rating was performed that incorporated the effects of coring and grinding on the rating factors at each retrofitted location.

The US 90 Atchafalaya River Bridge at Morgan City is approximately 1,839 feet in length and is a steel cantilever structure built in 1975. In total, 50 individual rejectable defects were identified in 31 welds. Because the member load ratings are controlled by the current member section properties, any removal of material would reduce the member load rating. WJE was subsequently retained to remove the defects by grinding. UT was used to verify the successful removal of the defect and confirm the remaining thickness of the flange. The repair work was completed in March 2025. Updated rating factors were developed by WJE for each repaired location.

The I-20 Bridge over the Mississippi River at Vicksburg, Mississippi, is approximately 11,052 feet in length and is a steel cantilever structure built in 1973. Eight truss member welds containing rejectable indications determined by UT were observed while inspecting the north and south trusses. Two could be remediated by coring, and for the other six, WJE recommended defect removal by grinding. WJE was requested to complete the repairs and update the load ratings. Repair work was completed in March 2025.

Members involved: J. McGormley (Project Manager), C. Schroeder (UT Engineer)



Huval and Associates, Inc.

Firm name	Wiss, Janney, Elstner Associates, Inc.			Discipline(s)*	Bridge	
Project name	Sir Ambrose Shea Lift Bridge				Firm responsibility (prime or sub?)	Sub
Project number	N/A	Owner's name	Government of Newfoundland and Labrador, Department of Transportation and Public Works			
Project location	Placentia, Newfoundland and Labrador Province (Canada)			Owner's Project Manager	Jack Ajrab, Technical Director Parsons Corporation	
Owner's address, phone, email		(Parsons) 1223 Michael Street North, Suite 100, Ottawa, ON K1J 7T2 Canada, Jack.Ajrab@parsons.com				
Services commenced by this firm (mm/yy)		09/2012	Total consultant contract cost (\$1,000's)			\$47.7
Services completed by this firm (mm/yy)		9/2016	Cost of consultant services provided by this firm (\$1,000's)			\$1.8

Located on the Avalon Peninsula in Placentia, a town in the Canadian province of Newfoundland and Labrador, the Sir Ambrose Shea Lift Bridge provides a vital connection for local communities while supporting the region's commercial fishing industry. The bridge is raised approximately 2,400 times annually and is one of the few vertical lift bridges in Canada. This project was recognized with the 2017 Transportation Award of Merit from the Consulting Engineers of Ontario, the 2017 Canadian Consulting Engineering Award of Excellence and the 2016 Design Awards for Excellence in Steel Construction from the Canadian Institute of Steel.

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

The mechanical design includes all span support machinery (counterweight sheaves and bearings, counterweight ropes and terminations, and live load supports), span drive machinery (motors, brakes, couplings shafts, and speed reducers), and span locks (motors, speed reducers, lock bars, guides, and receivers). The objective of the mechanical design was to integrate the mechanical systems into the structure with minimal impact from a visual perspective, while minimizing maintenance requirements and improving overall system efficiency.

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

Members involved: J. Williams (Project Manager & Lead Mechanical Engineer), G. Rees (Lead Electrical Engineer)



Huval and Associates, Inc.

Firm name	Bridge Diagnostics, Inc.			Discipline(s)*		Bridge	
Project name	Louisiana Statewide Non-Destructive Testing and Evaluation IDIQ				Firm responsibility (prime or sub?)		Prime
Project number	H.009730	Owner's name		Louisiana Department of Transportation and Development (LADOTD)			
Project location	Louisiana Statewide				Owner's Project Manager		Bradley Mistich
Owner's address, phone, email		Office of Engineering PO Box 94245 Baton Rouge, LA 70804-9245 225-379-1200 Bradley.Mistich@la.gov					
Services commenced by this firm (mm/yy)		05/23		Total consultant contract cost (\$1,000's)			\$5,000
Services completed by this firm (mm/yy)		Ongoing		Cost of consultant services provided by this firm (\$1,000's)			\$4,607

BDI was awarded the Non-Destructive Testing and Evaluation IDIQ across the state of Louisiana.

- **Task Order II Twin Span and 6-mile Deck Evaluation:** BDI performed deck assessments involving various NDT-E methods including SounDAR, Ground Penetrating Radar (GPR), High Resolution Imaging (HRI), Infrared Thermography (IR), and concrete material sampling on bridge recall numbers 204140, 204150, 020467, and 020468 for the purpose of assessment of reinforcement concrete condition, cover, location, and diameter; detections of voids and delaminations in concrete, and concrete material sampling.
- **Task Orders III and VI Interstate 20 Deck Evaluation and Pin and Hanger Testing:** To assist with bridge preservation efforts, BDI is performing deck assessments for 273 structures on the Interstate 20 corridor in Louisiana involving various NDT-E methods including SounDAR, GPR, HRI, and IR for the purpose of assessment of reinforcement concrete condition, cover, location, and diameter and detection of voids and delaminations in concrete. BDI is also performing steel member condition assessment via ultrasonic testing (UT) on 39 structures statewide.
- **Task Order IV US-11 over Lake Pontchartrain Deck Evaluation and NBIS Inspection:** BDI performed deck assessments involving various NDT-E methods including SounDAR, GPR, HRI, and IR for the purpose of assessment of reinforcement concrete condition, cover, location, and diameter and detection of voids and delaminations in concrete on bridge recall numbers 001525, 001545, 001552, and 200830. BDI also performed the NBIS Routine inspections on these structures which included detailed in-depth field inspections.
- **Task Order V Bayou Ramos:** BDI is performing instrumentation and testing of bridge recall numbers 030115 and 030185 over Bayou Ramos including design of instrumentation plans, instrumentation of sensors, maintenance of sensors, and analysis and evaluation of the accumulated data.



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

Huval and Associates, Inc.

Firm name	Bridge Diagnostics, Inc.		Discipline(s)*	Bridge	
Project name	Bayou Ramos Bridge Multi-Phase Field-Verified Evaluation			Firm responsibility (prime or sub?)	Prime
Project number	H.009730.5	Owner's name	Louisiana Department of Transportation and Development (LADOTD)		
Project location	Morgan City, LA		Owner's Project Manager	Bradley Mistich	
Owner's address, phone, email	Office of Engineering	PO Box 94245	Baton Rouge, LA 70804-9245	225-379-1200	Bradley.Mistich@la.gov
Services commenced by this firm (mm/yy)	10/24		Total consultant contract cost (\$1,000's)		\$501
Services completed by this firm (mm/yy)	Ongoing		Cost of consultant services provided by this firm (\$1,000's)		\$172

The Bayou Ramos bridges are currently load posted due to cracking/deterioration present along many of the prestressed girder ends. When this deterioration was first observed, BDI teamed up with LADOTD to conduct diagnostic live-load testing and monitoring on these structures to identify the structure's response characteristics and determine potential causes for the observed distress. As part of Task Order 5 of BDI's NDT/E IDIQ 4400025002, BDI was contracted to provide a multi-phase evaluation to reevaluate the structures' live-load capacity after multiple retrofit strategies were deployed. This evaluation included:

- **Phase I:** AASHTOware BrR load rating evaluation where multiple strut-and-tie method (STM) models were considered and evaluated. BDI Phase I calculations and related findings were summarized in a submitted load rating report and calculation package.
- **Phase II:** Diagnostic load test-based evaluation used to validate both the structural behavior and STM capacity assumptions. BDI provisioned, installed, and maintained all required instrumentation and data acquisition equipment. BDI utilized the collected structural responses to evaluate the structure's distribution behavior and refine the STM capacity assumptions, with analysis and evaluation results submitted in a report and calculation package.
- **Phase III:** Performance monitoring program set to provide crucial information on the condition of the girder ends by monitoring the activity level of the observed deterioration once/if load restrictions are lifted. During this phase, all monitoring equipment will be provisioned, installed, maintained and calibrated by BDI's team.

BDI is currently finalizing Phase II with LADOTD and will be continuing onto Phase III monitoring based on coordination with and approval from LADOTD.

Brice Carpenter served as project engineer responsible for load rating, testing/monitoring plan development and application, analysis team management, and QA/QC of various project tasks.

Steven Fall served as local project manager responsible for field testing logistics and field crew management.



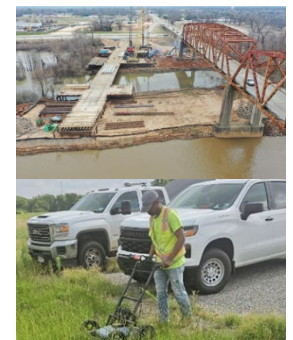
Huval and Associates, Inc.

Firm name	NTB Associates, Inc.		Discipline(s)*		**Survey, Other (SUE), Right-of-Way
Project name	Jimmie Davis Bridge (LA 511) Design-Build			Firm responsibility (prime or sub?)	Sub
Project number	H.001779	Owner's name	LaDOTD Baton Rouge/ James Construction/ Huval & Associates, Inc.		
Project location	Bossier & Caddo Parishes, LA		Owner's Project Manager	Mr. Thomas Gattle, III, PE	
Owner's address, phone, email	922 West Pont Des Mouton Road, Lafayette, LA 70507 (337) 234-3798 tgattle@huvalassoc.com				
Services commenced by this firm (mm/yy)		01/22	Total consultant contract cost (\$1,000's)		\$1,140
Services completed by this firm (mm/yy)		On-going	Cost of consultant services provided by this firm (\$1,000's)		\$1,140

NTBA performs Static GPS control, **topographic and property surveying services**, traffic control, utility coordination services, **QL A, B, C, & D utility designating/locating, as well as preparing title takeoffs, 60% Right-of-Way Maps, Final Right-of-Way Maps, and legal descriptions** for the design-build project to replace the Jimmy Davis Bridge across the Red River. The scope of this project consists of constructing a new four lane structure carrying LA 511 across the Red River, converting LA 511 (Jimmie Davis Hwy) into a four-lane, median-divided highway on the east side of bridge; as well as providing full access interchanges between LA 511 and Clyde Fant Memorial Parkway and Arthur Ray Teague Parkway. **NTBA** designed and implemented a Traffic Control Plan for a bridge closure to verify the horizontal and vertical control set by **LaDOTD** during the original survey and verified the vertical control for both sides by running digital levels across the bridge, which was not performed in the original survey. All of this was completed during night shifts to ensure the safety of employees and the public as well as to avoid traffic disruptions.



NTBA performed **property surveys and title take-offs** for approximately 50 properties adjacent to the route and a **property survey** submittal prepared with apparent **right-of-way** shown. **Final Mylar Right-of-Way Maps** have been submitted for 21 parcels requiring **right-of-way taking**. The set included 21 plan and 1 title sheet.



NTBA performed **SUE services** to designate all utilities within the project limits. A conflict matrix was created showing the utilities in conflict with the construction. We are coordinating with the utility owners to relocate utilities that conflict with the construction and will monitor the relocation to ensure compliance with relocation plans. **NTBA** is utilizing the Louisiana Department of Transportation Survey and Design Manual Addendum A as well as CI/ASCE Standard 38-02.

Firm members involved who are in this 24-102:

B. Bunch	W. Offer	C. LeCoq	G. Gilleon	I. Jack	C. Chapman
M. King	A. King	B. Davis	P. Staiano	W. Wales	T. Sitton

Huval and Associates, Inc.

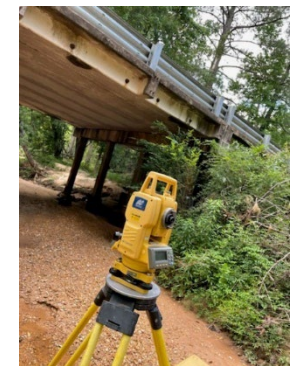
Firm name	NTB Associates, Inc.		Discipline(s)*		**Survey	
Project name	Rural Bridge Replacement Initiative Phase II			Firm responsibility (prime or sub?)		Sub
Project number	4400019337	Owner's name	LaDOTD Baton Rouge/ Burk-Kleinpeter, Inc.			
Project location	Districts 05, 08, and 58		Owner's Project Manager	Mr. 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)		09/20	Total consultant contract cost (\$1,000's)			\$1,935
Services completed by this firm (mm/yy)		On-going	Cost of consultant services provided by this firm (\$1,000's)			\$1,935

NTBA is performing GPS Control surveys, **topographic surveys, property surveys, title take-offs, legal description preparation, preliminary and final right-of-way mapping, and QL C & D subsurface utility services** 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 produced electronic **topographic** drawings in MicroStation depicting all utility and **topographic** information. Data was provided to the engineering consultant for incorporation into their hydraulic model being utilized to evaluate the system.

Boundary surveying has been performed for 73 parcels at 18 different bridge locations. This includes surveying each parcel affected by either construction servitude or additional right-of-way requirements as well as production of property survey submittal, preliminary and final right-of-way maps, and parcel descriptions. All services are being completed in accordance with the Location and Survey Manual Addendum 1 and all currently accepted Location and Survey Automated procedures.

Firm members involved who are in this 24-102:

B. Bunch	G. Gilleon	C. LeCoq
P. Staiano	W. Offer	I. Jack
M. King	A. King	C. Chapman
W. Wales	B. Davis	



Huval and Associates, Inc.

Firm name	ELOS Environmental, LLC		Discipline(s)*		Environmental	
Project name	LADOTD Rural Bridges: Phases I & II			Firm responsibility (prime or sub?)		Sub
Project number	Multiple H No.	Owner's name	LA DOTD			
Project location	Statewide, LA (Districts 3, 5, 7, 8, 58, 61, and 62)		Owner's Project Manager		Brian Allen	
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, LA, 225-379-1840, brian.allen@la.gov				
Services commenced by this firm (mm/yy)		08/20	Total consultant contract cost (\$1,000's)			Unknown
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)			\$541.8



ELOS has been contracted by BKI to provide professional environmental consulting services for the Louisiana Department of Transportation and Development (LADOTD) Rural Bridge Replacement Initiative for two project phases. Phase I involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase II is ongoing and involves bridge replacements under nine state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, and 58. Most projects have included wetland delineations, permit applications, cultural resource surveys, and threatened and endangered species surveys. ELOS has also assisted in the early planning stages of some of these projects to identify any possible adverse economic, social, or environmental effects or concerns.

Project Numbers: H.013952, H.013955, H.013956, H.013957, H.013958, H.013959, H.013963, H.013966, H.013968, H.013970, H.013976, H.013982, H.013984, H.013989, H.013996, H.013997 (Phase I) and H.014242, H.014243, H.014245, H.014246, H.014247, H.014248, H.014249, H.014250, H.014268, H.015685 (Phase II)

ELOS has performed all environmental services according to the Federal Highway Administration (FHWA) standards. Permits have been coordinated through several federal and state agencies, including joint applications to the USACE and the Louisiana Department of Energy and Natural Resources (LDENR) / Office of Coastal Management, Scenic Rivers permits through the Louisiana Department of Wildlife & Fisheries, and cultural resource surveys in coordination with the Louisiana State Historic Preservation Office. ELOS also has personnel recently trained in the tricolored bat identification and surveys, which have been used for some of these bridge replacement projects.

Personnel Assigned: Lucas Watkins, Jay Prather, Brittany Berthelot, Brian Fortson, Cory Ricks, Hunter Perrilloux, Basile Dardar, Savannah Watkins, Sunny Brogan, Rick Henry, Conner Myers, Christopher Wilson, and Mike Hill.

Huval and Associates, Inc.

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

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

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

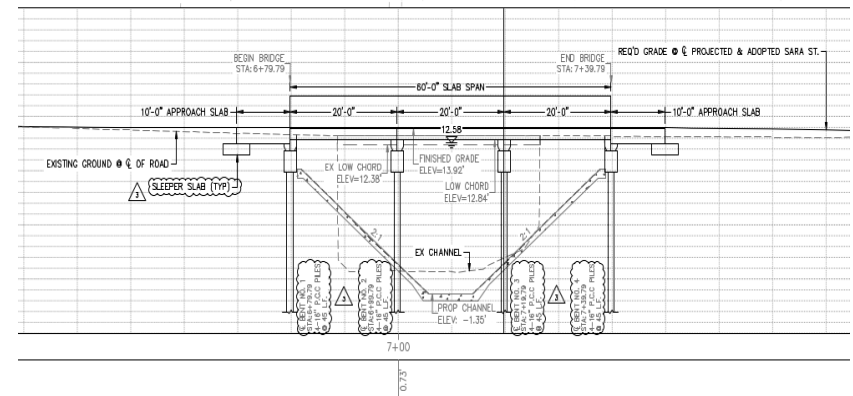


Personnel Utilized on this project: Brin Ferlito, Laurence Lambert, and Reece Rodrigue (100% performed in Louisiana)

Huval and Associates, Inc.

Firm name	Bluewing Civil Consulting, LLC		Discipline(s)	Bridge, Road	
Project name	Sara Street Bridge Replacement			Firm responsibility (prime or sub?)	Prime
Project number	219001	Owner's name	Calcasieu Parish Police Jury		
Project location	Sulphur, LA		Owner's Project Manager	Clifton Vanicor	
Owner's address, phone, email	1015 Pithon St. Lake Charles, LA 70601 / 337-721-3500 / Clifton Vanicor cvanicor@calcasieuparish.gov				
Services commenced by this firm (mm/yy)	08/2019	Total consultant contract cost (\$1,000's)			\$108
Services completed by this firm (mm/yy)	05/2025	Cost of consultant services provided by this firm (\$1,000's)			\$108

Project Description: The Sara Street Bridge Replacement evaluates the replacement of the existing 24' wide by 40' long precast concrete bridge over the W-36 R3 channel in Sulphur, Louisiana (Bridge No. 070043). The proposed structure is a 60' long cast-in-place concrete bridge with three 20' spans, skewed at 75°, and designed to meet LADOTD Hydraulic Manual criteria for the 25-year storm event. Hydraulic modeling using HEC-RAS, provided by Calcasieu Parish, indicates a negligible increase in water surface elevation and improved conveyance at the proposed structure. The contributing watershed is approximately 4.8 square miles, and hydrologic analysis used both USGS HYDR1130 and HEC-RAS methods. The proposed bridge design results in minimal backwater and does not overtop during the 25-year event. The project includes concrete channel lining, and scour is not anticipated.



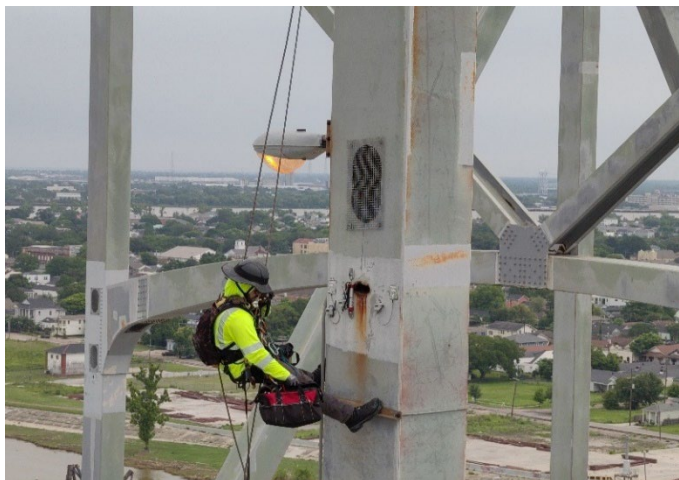
Key Project Members:

Alex Guillory, CFM, PE, Principal Mark Dubroc, PE, Senior Engineer Aaron Enlund, EI
 Brady Bogues, EI
 Ryan Breaux, CAD II Specialist
 Jenee Dansdill, Permitting Specialist Kim Mitchell, Chief of Operations



Huval and Associates, Inc.

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



RELEVANCE TO LaDOTD	
✓	BIM
✓	Underwater Bridge Inspection and Assessment
✓	Acoustic Imaging
✓	Hydrographic Surveying
✓	NBE and SNBI ratings
✓	Retainer Contract
✓	In-Depth Inspection and Reports
✓	TTC and Work Zone Safety

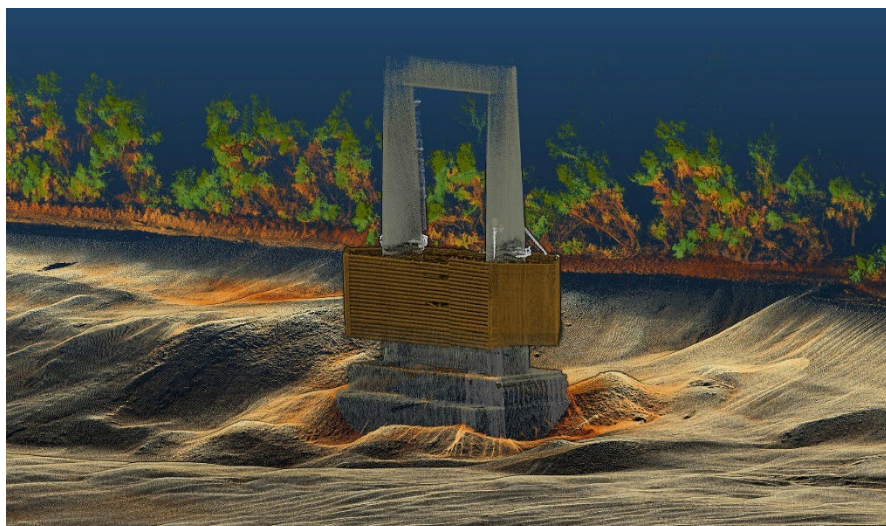
M&N was part of a team responsible for performing bridge inspection of complex structures statewide, utilizing an IDIQ contract. Structure types include cantilever trusses, cable-stayed bridges, steel vertical lift bridges, and plate girder bascule bridges. Tasks include providing bridge inspections,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

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

Key Team Members: Chace Hulon, Bryan Tyson, Chip Eschenbach, Jeffrey Gazarek, Herodotos Pentas

Huval and Associates, Inc.

Firm name	Moffatt & Nichol Inc.		Discipline(s)*	Bridge
Project name	LaDOTD Underwater Bridge Inspections		Firm responsibility (prime or sub?)	Prime
Project number	H.009730.5, Task Order 2	Owner's name	Louisiana Department of Transportation and Development	
Project location	Statewide, Louisiana		Owner's Project Manager	Stephanie Doolittle, P.E.
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, Louisiana 70802, 225-379-1329, stephanie.doolittle@la.gov			
Services commenced by this firm (mm/yy)	06/22	Total consultant contract cost (\$1,000's)		\$2,402
Services completed by this firm (mm/yy)	08/25	Cost of consultant services provided by this firm (\$1,000's)		\$1,416



RELEVANCE TO LaDOTD

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

As part of a five-year retainer contract, M&N has been tasked with performing underwater bridge inspections for over 500 bridges throughout the state of Louisiana through Task Order 2 and over 800 bridges across all three task orders on this contract. The bridges consist of small to mid-sized waterways along with nine bridges passing through large swamps and bayous that vary between 3 and 14 miles long, 15 culverts, and four bridges crossing over large waterways (the Mississippi River, Prien Lake, and Whiskey Bay Channel). Many of the bridges crossed over waterways inhabited by alligators, which posed a

potential hazard to the inspectors. To mitigate the probability of an incident, M&N implemented a Louisiana Department of Wildlife and Fisheries-approved nuisance alligator trapper during inspections at specific locations. M&N has safely performed Level I, II, and III underwater dive inspections and emergency damage assessments while augmenting 2D and 3D sonar technologies per the NBIS.

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

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

Key Team Members: Chace Hulon, Jeffrey Gazarek, Chip Eschenbach, Bryan Tyson, Charles Balzarini, Herodotos Pentas

Huval and Associates, Inc.

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



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



was followed by developing a refined geotechnical site characterization plan for the bank/bluff area for further analyses. Drilling operations included obtaining extremely sensitive samples containing prehistoric shear planes from the river via barge and on land, all with extremely difficult access conditions. The drilling program also included installation of geotechnical instrumentation such as Shape Accelerator Arrays, inclinometers, and vibrating wire piezometers. Engineering analyses performed included seepage and drawdown analyses and both equilibrium and finite element numerical modeling slope stability analyses. As part of the project, Ardaman developed a full slope stabilization design and construction remediation strategy and a monitoring program for the bluff instability and ground movements affecting the existing I-20 Mississippi River Bridge.

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

FIRM MEMBERS

Megan Bourgeois, Robert Jewell, Jarmon King, Casey Floyd, Jessica Litt

Firm name	Ardaman & Associates, Inc.			Discipline(s)*		Geotech	
Project name	Rural Bridges Phase 1 (113-20-84-2814)			Firm responsibility (prime or sub?)		Prime	
Project number	SP No. 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		Christina Brignac	
Owner’s address, phone, email		1201 Capitol Access Road, Baton Rouge, LA (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	Cost of consultant services provided by this firm (\$1,000’s)			\$676

PROJECT DESCRIPTION

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 field 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;
- 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.



FIRM MEMBERS:

Robert Jewell, Megan Bourgeois, Jarmon King, Mark Woodward

Huval and Associates, Inc.

Firm name	Marrero, Couvillon & Associates, LLC		Discipline(s)*	ROAD	
Project name	Bluebonnet Blvd. Roadway Lighting			Firm responsibility (prime or sub?)	Sub
Project number	19-CP-HC-0034	Owner's name	East Baton Rouge Parish/City of Baton Rouge		
Project location	Baton Rouge, LA		Owner's Project Manager		Kate Brady Prejean, P.E.
Owner's address, phone, email	10000 Perkins Rowe, Suite 640, Baton Rouge, LA 70810; 225.368.2818; kbprejean@hntb.com				
Services commenced by this firm (mm/yy)	07/20		Total consultant contract cost (\$1,000's)		Unknown
Services completed by this firm (mm/yy)	12/20		Cost of consultant services provided by this firm (\$1,000's)		\$59

Roadway Lighting (RELEVANCE)

The scope of work includes additional lane capacity in each direction. Bluebonnet Boulevard is two lanes in each direction currently. Pedestrian facilities are interspersed throughout the corridor and there is commercial development abutting the entire corridor. The project will add an additional travel lane in each direction and provide for connected pedestrian facilities throughout the corridor. Lighting and electrical design is ongoing, and provides new low-mast lighting utilizing LED fixtures on aluminum poles with breakaway bases, and will cover the entire stretch of roadway from Perkins Road to Picardy Ave. All photometric analysis was performed using Agi32 and approved by MoveBR. The lighting levels were determined from the traffic analysis and supported the increased pedestrian and bicycle traffic anticipated with the installation of new sidewalks and bike lanes. Kimball Schlafly provided the electrical design and project management.

Key Personnel: *Kimball Schlafly, P.E*

18. Approach and Methodology

Introduction

The statewide IDIQ contract for bridge preservation directly aligns with the proven capabilities of Huval & Associates, Inc. (HUVAL). As the prime consultant, HUVAL has built a team specifically structured to deliver every service outlined in the project advertisement. Our approach is guided by over 34 years of continuous professional practice, leveraging extensive experience, knowledge, and expertise. Since 2001, HUVAL has maintained an uninterrupted record of bridge retainer contracts with LADOTD, demonstrating both reliability and performance. Together with our carefully chosen subconsultants, HUVAL is uniquely positioned to meet all project requirements with consistency, responsiveness, and technical excellence.

HUVAL has long specialized in complex bridge design, rehabilitation, project management, and construction support services for LADOTD's most demanding projects. The preservation program requires leadership from an experienced structural project manager and an engineering staff capable of directing all aspects of design and coordination.

Our depth of knowledge comes from decades of collaboration with LADOTD on new bridge design, preservation, rehabilitation, and inspection assignments across the state. This background gives HUVAL a first-hand understanding of the existing bridge inventory, along with the site-specific limitations that influence project delivery. With this perspective, HUVAL consistently develops context-sensitive solutions that protect and extend the life of critical structures.

Along with this project-specific knowledge, our subconsultant team adds expertise across all supporting discipline

HUVAL *Team Prime Consultant and Bridge and Roadway Design Lead.*

HUVAL specializes in complex bridge design, bridge rehabilitation, project management and roadway design for LA DOTD's most challenging projects.



Environmental and Permitting Lead

ELOS is a Louisiana-based firm that will perform environmental and permitting services.



Instrumentation and NDT Lead

Bridge Diagnostics Inc. are leading experts and focused on structural nondestructive testing / evaluation, load testing, monitoring, and evaluation services.



Coatings, Sampling and Electrical Engineering Lead

Wiss, Janey, Elstner Associates, Inc. is an employee-owned interdisciplinary engineering, architecture, and materials science firm. WJE will perform paint and coatings sampling and design as well as any electrical engineering related to movable bridges.



Bridge and Underwater Inspections

Moffat and Nichol will perform bridge inspections as well as subsurface / underwater inspections on this contract.



Geotechnical Services Lead

Ardaman and Associates, Inc. will perform all geotechnical services including shallow and deep soil borings, soil analysis and other construction related analysis.



Surveying Lead.

NTBA is a land surveying and engineering firm. NTBA and their highly skill staff are experts and will perform all surveying duties to LA DOTD standards.



Hydraulics Lead

Bluewing Civil Consulting is a Louisiana based design firm that specializes in and will perform hydraulic modeling for complex watersheds and scour analysis for bridges for the contract.



Traffic Engineering and Analysis

Vectura Consulting Services, LLC is a Louisiana-based DBE firm specializing in transportation and traffic engineering services and will perform these services for the contract.



Roadway Lighting

Marrero, Couvillon and Associates, LLC, specializes in architectural and engineering construction. MCA will be performing the roadway lighting and architectural tasks on this contract.

Bridge Preservation IDIQ Understanding and Approach

HUVAL's approach to the statewide bridge preservation retainer builds on the proven systems we have successfully applied to prior contracts. Each task order is carefully evaluated and staffed to ensure delivery in accordance with LADOTD requirements. Preservation assignments often involve urgent repair needs with aggressive timelines, and HUVAL has a strong record of developing emergency plans that meet schedule demands without compromising quality.

The wide scope of task orders can involve services such as structural design, coatings and paint evaluation, nondestructive testing, geotechnical investigations, roadway design, traffic engineering, surveying, title research, environmental studies, and permitting. HUVAL's expertise covers both movable and fixed bridges, giving us the versatility needed to execute all project types under this contract.

Strong communication and coordination guide every project. Our team keeps LADOTD informed throughout major milestones and raises potential cost or schedule issues as early as possible. Deliverables are submitted through proper LADOTD procedures, and project managers maintain constant alignment with Department staff.

HUVAL maintains a culture of quality control. Reviews are continuous during the design process, not limited to milestone submissions. This proactive approach prevents errors, minimizes delays, and ensures compliance with LADOTD's standards. Above all, our focus is to complete projects efficiently, accurately, and on time.

Adding to our understanding of project issues is HUVAL's experience with construction erection. HUVAL regularly provides construction erection services for contractors throughout Louisiana and in many regions of the United States. HUVAL's ability to analyze and design equipment staging, temporary structures for construction and construction techniques for all types of bridge structures allows HUVAL to anticipate potential issues and produce repair and/or replacement plans that can be constructed efficiently.

Typical Task Order Process

HUVAL has successfully delivered more than one hundred task orders under LADOTD bridge preservation contracts. Because we are already well-versed in the Department's standards, manuals, and procedures, LADOTD benefits from a partner that can begin immediately without the burden of a learning curve.

Depending on project urgency, delivery can range from fast-tracked emergency response designs with limited reviews to traditional phased plan development. The process starts when LADOTD contacts HUVAL's Project Manager, who assesses the assignment, selects the proper staff and subconsultants, and develops a comprehensive scope and man-hour estimate. Upfront time is dedicated to carefully reviewing the background material, helping to limit the need for supplemental agreements later.

After the Notice to Proceed is issued, HUVAL and its subconsultant team commence work. Deliverables may consist of inspections, evaluations,

rehabilitation design, or complete bridge replacement design, depending on the requirements of the task.

BRIDGE REPAIR

Repair assignments are frequently emergency-driven or otherwise time-critical. In these cases, the standard preliminary and final design milestones may be shortened. This is determined jointly by the LADOTD PM and HUVAL PM, and it is at these times that LADOTD benefits from the proven track record of a reliable consultant like HUVAL. That trust and past performance can eliminate certain milestone submissions such as 30% or 60% plans.

Even with condensed reviews, bridge repair task orders typically move through these stages:

- **Bridge Assessment and Study** – Includes inspection and structural rating to identify repair needs. This may involve paint testing, underwater evaluations, and instrumentation. Repair recommendations, preliminary construction costs, and traffic impact analyses are developed. Topographic or structural surveys may also begin during this stage. If findings indicate, the bridge may instead be recommended for replacement.
- **Preliminary Plans** – Starts after the study and establishes preliminary repair details and plan sheets. Traffic impacts and temporary controls are addressed, along with environmental considerations and permit submittals. Before concluding this stage, a Plan-in-Hand meeting is held with LADOTD and stakeholders, and comments are incorporated.
- **Final Plans** – Provides complete repair details, sequencing, specifications, and bid quantities. For many repairs, non-standard specifications are written to address unique conditions. Once reviewed, final plans are released for letting.
- **Construction Services** – During construction, HUVAL assists with shop drawing reviews, erection plans, and RFIs. Our extensive construction engineering experience allows for quick turnaround on complex reviews.

Additional services such as geotechnical investigations or hydraulic modeling may also be required, typically performed during the Study or Preliminary Plan stages to support final design.

BRIDGE REPLACEMENT

When repair options cannot extend the structure's service life or satisfy capacity requirements, full replacement is recommended. Replacement projects are usually more comprehensive than repairs, requiring broader engineering disciplines and additional review milestones. Typical stages include:

- **Bridge Assessment and Study** – Determines if replacement is necessary when inspections show repairs are not sufficient. Alternative bridge types and spans are analyzed, with assessments of environmental, traffic, and site impacts. Topographic surveys, hydraulic studies, geotechnical services, and permitting are performed if needed. A preferred bridge type and alignment are selected at the conclusion of this stage.
- **Preliminary Plans** – Begins once the study is complete and develops the preferred option. Project milestones are set according to schedule. Roadway and traffic design are performed to establish project limits and right-of-way needs. Environmental and property impacts are addressed during this phase. A Plan-in-Hand meeting is conducted with LADOTD and stakeholders for review and input.
- **Final Plans** – Provides structural calculations, roadway and traffic design completion, detailed drawings, and construction cost estimates. Environmental and permitting issues are resolved prior to plan completion. Following review and approval, the final documents are prepared for letting.
- **Construction Services** – HUVAL supports LADOTD by reviewing shop drawings, construction methods, and RFIs. Our erection design experience ensures timely responses to field needs.

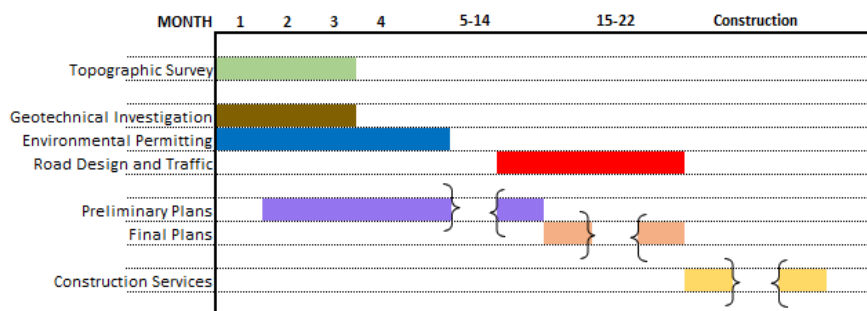
Task Order Project Timeframes

Task order schedules depend on the project's urgency and the priority assigned by LADOTD. HUVAL has a proven track record of delivering both emergency and non-emergency task orders under retainer contracts.

Emergency assignments have included fire damage, vehicular and barge impacts, storm damage, and scour repairs. Many began with accelerated Notices to Proceed and were completed and let to bid within extremely tight deadlines.

For non-emergency assignments, project schedules are more structured, with defined milestones and LADOTD letting commitments. Typical activities include **topographic surveying, geotechnical investigations, environmental permitting, roadway and traffic design, and preparation of preliminary and final plans**. These projects are usually delivered and bid within 9 to 12 months.

A sample schedule for a typical task order may include these services in sequence. In table format, such a schedule might look like the following (note: no specific timeframe has been applied; the example is for illustrative purposes only):



Representative Projects

Schedules vary depending on project type and urgency. The examples below highlight HUVAL's ability to deliver both emergency response projects and planned design assignments under retainer contracts. These projects demonstrate our responsiveness, technical expertise, and coordination with LADOTD to meet critical deadlines and defined letting commitments:

- **I-10 over I-49 Emergency Repairs (T.O. H.015412.5)** – Emergency design services following structural damage. Performed detailed inspection and designed replacement of three girders and deck, restoring service within weeks.
- **US 90-W – Bayou Ramos Bridge Repairs (T.O. H.015114.5)** – Permanent bridge repairs for the LA 182 Bridge over Bayou Ramos. Developed damage assessment, repair concepts, detailed plans, and cost estimates. Deliverables included staged submittals (60%, 95%, 100%) and an as-designed load rating report.
- **LA 454 over Wiggins Bayou Bridge and Roadway Replacement (T.O. H.012545.5)** – Full roadway and bridge design with cost estimates. Scope included feasibility studies to realign the channel to mitigate erosion, with LG 36 girder spans supported by pile bents. Subconsultants performed geotechnical and hydrology surveys.
- **I-20 Bridge Evaluations and Median Barrier Design** – US 165 East of Garret Rd. (T.O. H.014646.5) – Load ratings performed using LRFR per DOTD BDEM. Prepared rehabilitation plans considering future widening and increased vertical clearance (16'-6"). Final deliverables included roadway, bridge, and barrier plans.
- **LA 6 Youngs Bayou Bridges (T.O. H.013821)** – Prime consultant for remediation of abutment and embankment failures. Designed soil nail stabilization, drainage modifications, and approach slab repairs. Coordinated geotechnical and structural engineering efforts to ensure long-term stability.

Team Abilities

The HUVAL Team is composed of subconsultants with extensive experience working alongside both HUVAL and LADOTD. Each was selected to contribute not only technical expertise but also depth across multiple disciplines. Together, HUVAL and its partners stand fully prepared to execute every type of project under this contract, from preservation and repair to full bridge replacement, across Louisiana's infrastructure network.

19. Workload

Firm(s) <u>ALL FIRMS MUST</u> BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Huval	Road, Bridge	Co. #:4400005673 S.P. H. 011235	I-49 South @ Verot School Road Lafayette Parish – Design Phase Supp. #3,4,5	\$56,064
	Bridge	Co. #:4400010428 S.P. H.004774.5	Kansas Lane-Garrett Road Connector – Supp #1	\$11,644
	Bridge	Co. #:4400017421 S.P. H.001352.5	Comite Diversion Bridge at LA 67 – Construction Services	\$172,646
		Co. #:4400017421 S.P. H.002273.5	Comite Diversion Bridge at LA 19 & LA 19 Railroad – Const. Services	
	Road, Bridge	Co. #:4400029193 S.P. H.004100.5	I-10 CMAR –Design	\$3,774,779
	Road, Bridge	Co. #:4400029193 S.P. H.004100.6	I-10 CMAR – Construction Services	\$723,679
	Road, Bridge	Co. #. Not Assigned S.P.H. 001779	Jimmie Davis Bridge (LA 511 – Design-Build Project)	\$1,610,359
	Bridge	Co.#. 4400023923 S.P.H. 013821.5	LA 6: Youngs Bayou Bridges	\$10
	Bridge	Co.#. 4400023923 S.P.H. 007300.5	I-20 Widening and Kansas - Garrett Connector	\$18,483
	Bridge	Co.#. 4400023923 S.P.H. 012545.6	LA 454 - Wiggins Bayou Bridge: Construction Services	\$39,352
	Bridge	Co.#.4400023923 S.P.H. 014560.6	LA 94: Vermillion Bridge Replacement	\$28,105
	Bridge	Co.#.4400023923 S.P.H. 014283.5	US 90 IHNC Danzinger Bridge	\$1,434,631
Wiss, Janney, Elstner Associates, Inc.	Bridge	Contract 4400001762, H.014899.6	I-10/310 Bonnet Carré Fire Damage Repair	\$37,618
	Bridge	Contract 44-21594 H.009730.4	T-1 Steel Weld Assessment	\$13,816
	Bridge	Contract 44-25003 H.009730.5	NDE for Testing/Evaluation of Structures, TO 1	\$357,990

Wiss, Janney, Elstner Associates, Inc.	Bridge	Contract 44-25003 – TO2 H.009730.5	Testing/Evaluation of Structures, TO 2, In-Depth Bridge Inspection, UT of Bridge Pins and Hangers	\$366,184
	Bridge	Contract 44-25003 H.009730.	Testing/Evaluation of Structures, TO , Service Life Estimates	\$534,032
	Bridge	Contract 4400023923 H.014283	Danziger Bridge Electrical, Mechanical, Structural Repairs	\$1,173,146
	Bridge	Contract 44-21515 H.012738	Movable Bridge Rehabilitation - Morbihan	\$19,553
	Bridge	Contract 44-21515 H.010004	Movable Bridge Rehabilitation - Olivier	\$28,807
	Bridge	Contract 44-21515 H.011974	Movable Bridge Rehabilitation - Dulac	\$70,869.84
	Bridge	Contract 44-21515 H.011991	Movable Bridge Rehabilitation - Daspit	\$35,757
	Bridge	Contract 44-21515 H.014191	Movable Bridge Rehabilitation - Nelson	\$35,230
Bridge Diagnostics, Inc.	Bridge	4400025002 H.009730.5	IDIQ Contract for Non-Destructive Testing/Evaluation of Structures Statewide TO3	\$28,255
	Bridge	4400025002 H.009730.5	IDIQ Contract for Non-Destructive Testing/Evaluation of Structures Statewide TO4	\$19,712
	Bridge	4400025002 H.009730.5	IDIQ Contract for Non-Destructive Testing/Evaluation of Structures Statewide TO5	\$328,295
	Bridge	4400025002 H.009730.5	IDIQ Contract for Non-Destructive Testing/Evaluation of Structures Statewide TO6	\$397,990
	Bridge	4400025002 H.009730.5	IDIQ Contract for Non-Destructive Testing/Evaluation of Structures Statewide TO7	\$307,738
	Bridge	4400025002 H.009730.5	IDIQ Contract for Non-Destructive Testing/Evaluation of Structures Statewide TO8	\$43,394
	Bridge	44-24187 H.004647.6	I-20 Miss. R. Bridge Geotechnical & Stru IDIQ Contract for Bridge Preservation Statewide TO 15	\$232,330
	Bridge	4400023812	Mast Plan Development for the Weigh Station Assessment, Rehabilitation, and Plan Development Statewide TO3	\$875,291

NTB Associates, Inc.	Survey	4400019338 Multiple SP Nos. per bridge	Contract for Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (Sub to Waggoner)	\$36,325
	Survey	4400019337 Multiple SP Nos. per bridge	Contract for Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (Sub to BKI)	\$30,908
	Survey	4400027686 H.008768.5	IDIQ Contract for Hydrographic Surveying Services – Task Order No. 4 – Fall Bridges	\$134,265
	Other (SUE)	4400026587 H.001779	Jimmie Davis Bridge (LA 511) (HBI) Design Build Project, Bossier Parish (Sub to James Construction/Huval & Associates, Inc.)	\$20,000
	Survey	4400027918 H.015576	IDIQ Contract for Professional Boundary Surveying Services – Task Order 1 – LA 447 & LA 1025 Roundabout	\$24,058
	Survey	4400027918 H.012869.5	IDIQ Contract for Professional Boundary Surveying Services – Task Order 3 – LA 182 (Univ) @ LA 723 (Renaud) Roundabout	\$27,332
	Survey	4400027918 H.011310.5	IDIQ Contract for Professional Boundary Surveying Services – Task Order 4 – Ford Street Extension, District 61	\$21,775
	Survey	4400027918 H.015721.5	IDIQ Contract for Professional Boundary Surveying Services – Task Order 5 – LA 30 Roundabout, Ascension Parish	\$23,592
	Survey	4400027918 H.014059.5	IDIQ Contract for Professional Boundary Surveying Services – Task Order 7 – US 80: Bridges Near Minden, Webster Parish	\$30,612
	Survey	44000021975 H.016413.5	IDIQ Contract for Professional Surveying Services – Task Order 6 – I:20 Sam R. Fert Dr. to Red River Br., Caddo Parish	\$1,223,254
Moffatt & Nichol Inc.	Bridge	4400029207; H.009730.5	LaDOTD IDIQ Contract for Underwater Inspections – Task Order 1	\$3,389,116
	Bridge	4400023512; H.009730.5	LaDOTD IDIQ Contract for Complex Bridge Inspections – Task Order 8	\$150,263
	Bridge	4400024187; H.014609.1	LaDOTD IDIQ Contract for Bridge Preservation – Task Order 14 Cameron Ferry Landing Replacement	\$40,028
	Other (Railroad)	4400011834; H.012811.1	LaDOTD Railroad Inventory Systems Railroad Inventory Upgrade – Supplemental Agreement 1	\$48,239

Ardaman & Associates, Inc.	Geotech	44-4128; H.004273	I-49 Connector, Lafayette	\$265,164
	Geotech	44-18899; H.004791	LA 23: Belle Chasse Bridge & Tunnel (HBI)	\$38,344
	Geotech	44-19013; H.004100.5 & .6	I-10 CMAR Design Continuation: LA 415 TO ESSEN ON I-10 & I-12	\$512,618
	Geotech	H.004435	I-12 to Bush Construction Phase	\$44,544
	Geotech	44-8671; H.009266	I-10 Widening: LA 73 to LA 30	\$25,760
	Geotech	44-19013; H.002244.5	Boudreaux Canal Bridge (LA 56)	\$180
	Geotech	44-17438; H.013284	MRB GBR LA 1 to LA 30 Connector	\$2,781
	Geotech	44-6189; H.004647.6	I-20 Mississippi River Bridge at Vicksburg	\$1,629,421
	Geotech	H.015935	LA 47 @ Bayou Bienvenue Bridge Replacement PDA	\$23,059
	Geotech	44-25025; H.015337, H.015452, H.015453, H.015454, H.015455, H.015456, H.015457, H.015458, H.015459, H.015460, H.015461, H.015462, H.015463	IIJA	\$77,119
	Geotech	44-24652; H.014265.5	N River Road Irving Branch	\$65
	Geotech	44-24652; H.012533.5	LA 1252 Bayou Pt Brule Bridge	\$39
	Geotech	44-24652, H.012607.5	Henderson Bayou Bridge LA 933	\$65
	Geotech	44-24652, H.015568.5, H.015569 HH.01H.015569.5	Pelican Point Roundabout	\$10,980
	Geotech	44-24652; H.012842.5	LA 124 Ext. Larto Lake	\$152
	Geotech	44-21519; H.012030.5	KCS RR Overpasses US 371	\$44,036
	Geotech	44-21887; H.012542, H.012453, H.012544, H.012047	Replacement of 15 Bridges	\$579,165

Ardaman & Associates, Inc.	Geotech	44-6189; H.016313.5, H.016314.5, H.016315.5, H.016316.5, H.016317.5, H.016318.5, H.016319.5, H.016320.5, H.016325.5	Culvert Replacements	\$203,307
	Geotech	H.015429, H.015430, H.015432	IIJA	\$14,545
	Geotech	H.001798	LA 531: Bridges Near Dubberly	\$51,410
	Geotech	H.15477	Caddo & Bossier Pavement	\$23,710
ELOS Environmental, LLC	Environmental	44-0019337 / H.014242	LA-124 Big Branch, Sandy, Godfrey, Beech Bridges	N/A
	Environmental	44-0019337 / H.014243	LA-472 Indian and Big Bear Creek	N/A
	Environmental	44-0019337 / H.014245	LA-119 Bayou Pierre and Creek Bridges	\$15
	Environmental	44-0019337 / H.014246	LA-1199 Creeks & Spring Creek	\$19
	Environmental	44-0019337 / H.014247	LA-399 Creeks, Little 6 Mile Creek, Flat Branch	\$45
	Environmental	44-0019337 / H.014247.5	LA-399 Bridges – Supplemental Task Order	N/A
	Environmental	44-0019337 / H.014248	LA-124 Creeks, Broke Leg Bayou, Boggy Bayou	\$14
	Environmental	44-0019337 / H.014248.5	LA-124 On site Detours - Supplemental Task Order	\$308
	Environmental	44-0019337 / H.014249	LA-126 Creek	\$849
	Environmental	44-0019337 / H.014242.5	LA-124 Bridges/Detours – Supplemental Task Order	\$21,473
	Environmental	44-0019337 / H.014250	LA-577 Bull Bayou and Creek Bridges	\$38
	Environmental	44-0019337 / H.014268	LA-4 Creeks, Bear, Squirrel, Sugar, Bill's and Lost Creek	\$30
	Environmental	44-0019337 / H.014268.5	LA-4 Creeks, Bear, Squirrel, Sugar, Bill's and Lost Creek	\$398
	Environmental	44-0019337 / H.014245.5	LA-119 Bayou Pierre and Creek Bridges – Additional	N/A
	Environmental	44-0027734 / H.014362	Lake Road in St. Tammany Parish	\$22,877
	Environmental	44-0024593 / H.015009	OSBR West Metairie Ave Bridge, South Suburban Canal	N/A

ELOS Environmental, LLC	Environmental	44-0025041 / H.015429	Carroll Ave, Middle Colyell Creek - IJJA Off-System	\$61
	Environmental	44-0025041 / H.015430	Hood Rd, Middle Colyell Creek - IJJA Off-System Bridges	\$51
	Environmental	44-0025041 / H.015431	Sawmill Rd, Unnamed Creek - IJJA Off-System Bridges	\$53
	Environmental	44-0025041 / H.015432	M. Williams Rd, Spring Creek - IJJA Off-System Bridges	\$53
	Environmental	44-0025041 / H.015433	George Jenkins Rd, Berrys Creek - IJJA Off-System	\$64
	Environmental	44-0025041 / H.015434	Mitch Rd, Peters Creek - IJJA Off-System Bridges District	\$49
	Environmental	44-0021326 / H010074.1	DOTD Stage 0 IDIQ-LA 3089 Serve Rd/LA 70 Up	\$2,760
Vectura Consulting Services, LLC	Traffic	4400005484 H.005168.2	New Orleans Rail Gateway Avondale EA	\$57,644
	CE&I/OV	4400020018 H.007160	EBR Computerized Traffic Signal, Ph VB	\$28,737
	Traffic	H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	\$11,202
	Traffic	4400021519 H.012030.5	KCS RR Overpasses HBI	\$572
	Traffic	4400023075 H.013522	S. Lewis Street Widening	\$7,499
	Traffic	4400025299 H.01564.5	LA 47 Hayne Blvd Safety Improvements	\$9,437
	Traffic	4400018271 H.014746.5	LA 383 Stage 0 Corridor Study	\$20,146
	ITS	4400016364 H.014511.1	Houma Regional ITS Architecture Update	\$10,746
	Traffic	4400025299 H.013421.5	Dist. 02H Flashing Yellow Arrow Part 2	\$83,260
Marrero, Couvillon, & Associates, LLC	Road	H.015052	I-20 Widening Overlay	\$249,658
Bluewing Civil Consulting, LLC	N/A	N/A	N/A	N/A

(Add rows as needed)

DO NOT SUM

20. Certifications/Licenses**Colby Guidry, PE**


PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT

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

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

Lafayette, LA
Location

Laurel Smith
Director of Training

Shawn Tishaw
President, CEO

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



American Traffic Safety Services Association ATSSA.com



National Highway Institute

Certificate of Training

Colby Guidry
has participated in

Fundamentals of LRFR and
Applications of LRFR for Bridge Superstructures

hosted by
LA DOTD/LTRC



Date: December 7-10, 2009

Hours of Instruction: 24

Location: Baton Rouge, LA

Bala Roshan
Instructor

Allison Landry
Local Coordinator

Thomas Seed
Instructor

Richard Barnaby
Richard Barnaby, Director
National Highway Institute



National Highway Institute

Certificate of Training

Colby Guidry
has successfully completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by
Louisiana Department of Transportation and
Development



Date: June 25-27, 2024

Hours of Instruction: 22

Location: Baton Rouge, LA

Mark Nyerges
Instructor

Allison Landry
Local Coordinator

Earl Dubin
Instructor

Stacey Caston
Stacey Caston, Director
National Highway Institute



National Highway Institute

Certificate of Training

Colby Guidry
has participated in

Fracture Critical Inspection Techniques for Steel Bridges

hosted by
LA DOTD/LTRC



Date: April 27-30, 2009

Hours of Instruction: 21

Location: Baton Rouge, LA

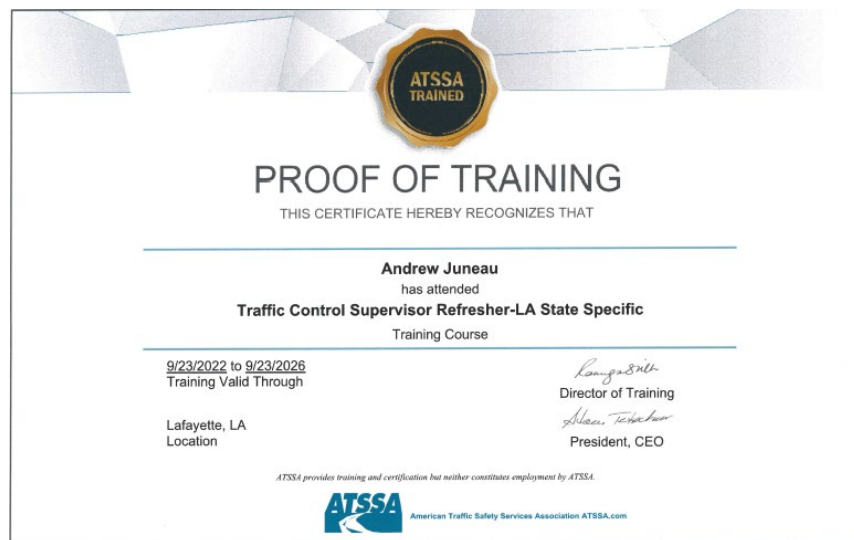
James A. Guidry
Instructor

Allison Landry
Local Coordinator

Richard Barnaby
Instructor

Richard Barnaby
Richard Barnaby, Director
National Highway Institute

Huval and Associates, Inc.

Andrew Juneau, PE

National Highway Institute

Certificate of Training



Andrew Juneau

has successfully completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by
Louisiana Department of Transportation and Development

Date: June 25-27, 2024
Location: Baton Rouge, LA

Hours of Instruction: 22

Mark Nyerges

Digitally signed by Mark Nyerges
Date: 2024.07.10 15:23:44 -0400

Instructor

Earl Dubin

Digitally signed by Earl Dubin
Date: 2024.07.11 10:18:38 -0400

Instructor

Allison Landry

Local Coordinator

Stacey Caston

Stacey Caston, Director
National Highway Institute

Ethan Delcambre

National Highway Institute

Certificate of Training



Ethan Delcambre

has successfully completed

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

hosted by
Texas Department of Transportation

Date: September 23 - October 4, 2024
Location: Austin, TX

Hours of Instruction: 68

William Gardner

Digitally signed by William Gardner
Date: 2024.10.24 11:04:57 -0400

Instructor

Jim Gundry

Digitally signed by Jim Gundry
Date: 2024.10.24 11:09:17 -0400

Instructor

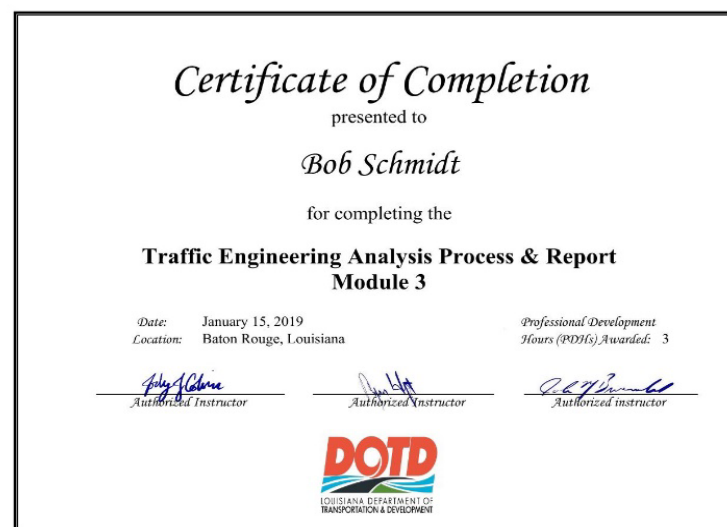
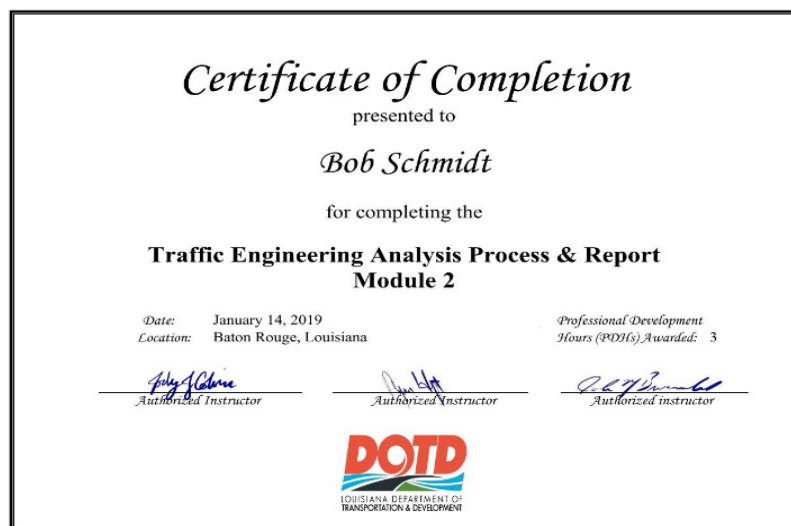
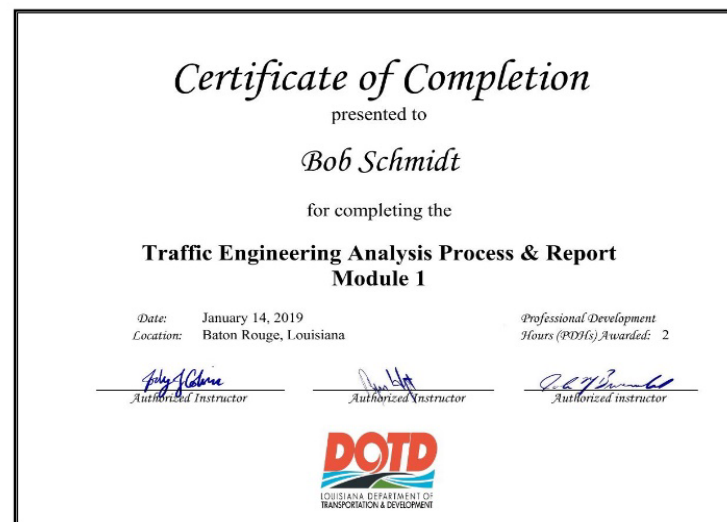
Tess Macias

Local Coordinator

Stacey Caston

Stacey Caston, Director
National Highway Institute

Huval and Associates, Inc.

Thomas Gattle, PE**Bob Schmidt, PE, PTOE**

Glenn McCall, PE


PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT

Glenn McCall
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

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

Lafayette, LA
Location

Ranga B. N. V.
Director of Training

Shirley T. Helming
President, CEO

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



American Traffic Safety Services Association ATSSA.com

Michelle Helming, PE


PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT

Michelle Helming
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

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

Lafayette, LA
Location

Ranga B. N. V.
Director of Training

Shirley T. Helming
President, CEO

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



American Traffic Safety Services Association ATSSA.com

Nicholas Helming, PE


PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT

Nicholas Helming
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

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

Lafayette, LA
Location

Ranga B. N. V.
Director of Training

Shirley T. Helming
President, CEO

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



American Traffic Safety Services Association ATSSA.com

Brett Commander

National Highway Institute
Certificate of Training



Brett Commander

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Texas Department of Transportation

Date: July 27-30 2021
Location: Virtual Delivery, TX

Hours of Instruction: 18

Digitally signed by Shandon Richardson, DN: cn=Shandon Richardson, o=Texas Department of Transportation, email=shandon.richardson@tdotexas.gov, c=US

Shandon Richardson

Digitally signed by Thomas Harman, DN: cn=Thomas Harman, o=National Highway Institute, email=thomas.harman@nhi.gov, c=US

Local Coordinator
Thomas Harman

Thomas Harman, Director
National Highway Institute

Steven Fall

National Highway Institute
Certificate of Training



STEVEN FALL

has Successfully Completed

FHWA – NHI – 130078
FRACTURE CRITICAL INSPECTION TECHNIQUES FOR STEEL BRIDGES

ILLINOIS DEPARTMENT OF TRANSPORTATION

Date: DECEMBER 6-9, 2022
Location: SCHAMBURG, ILLINOIS

Hours of Instruction: 25 Hours

Digitally signed by Amy Young, DN: cn=Amy Young, o=Illinois Department of Transportation, email=amy.young@idot.state.il.us, c=US

Amy Young
Local Coordinator
Thomas Harman
Thomas Harman, Director
National Highway Institute



National Highway Institute
Certificate of Training



Steven Fall

has Successfully Completed

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

hosted by

Colorado Department of Transportation

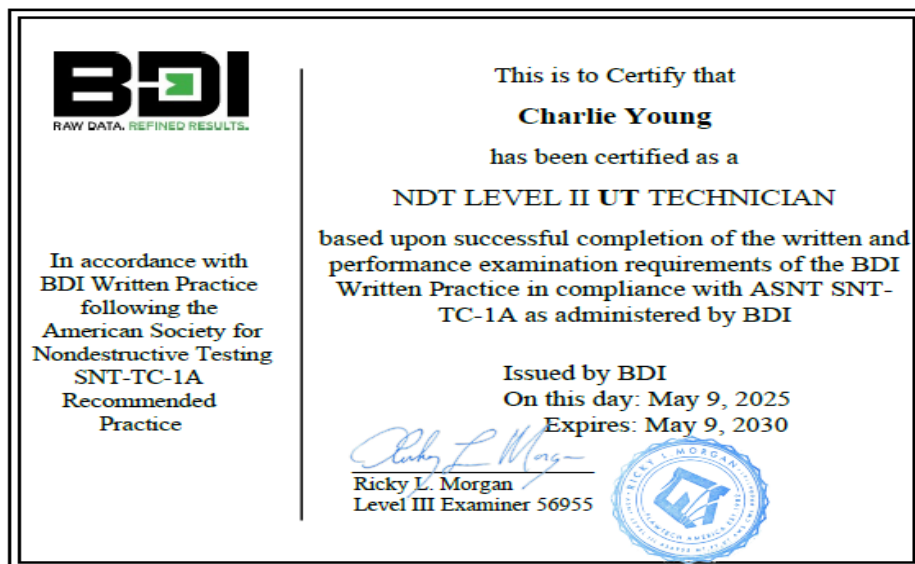
Date: July 18-29, 2022
Location: Denver, CO

Hours of Instruction: 67

Digitally signed by William R. Davidson, DN: cn=William R. Davidson, o=Colorado Department of Transportation, email=william.r.davidson@colorado.gov, c=US

William R. Davidson
Local Coordinator
Thomas Harman
Thomas Harman, Director
National Highway Institute

Charles Young



National Highway Institute *Certificate of Training*



Charles Young

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Texas Department of Transportation

Date: July 27-30 2021

Hours of Instruction: 18

Location: Virtual Delivery, TX

Shandon Richardson
Instructor

Digitally signed by Shandon A. Richardson, P.E.
DN: cn=Shandon A. Richardson, P.E., o=Texas Department of Transportation, ou=Texas Department of Transportation, email=shandon.a.richardson@tdotexas.gov

Thomas Harman
Instructor

Digitally signed by Thomas Harman, Director
DN: cn=Thomas Harman, Director, o=National Highway Institute, ou=National Highway Institute, email=thomas.harman@nhi.gov

Shandon Richardson

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

Leonard Phleps, SSPC



Brin Ferlito*Certificate of Completion*

presented to

Brin Ferlito

for completing the

**Traffic Engineering Analysis Process & Report
Module 1**Date: June 4, 2018
Location: Baton Rouge, LouisianaProfessional Development
Hours (PDHs) Awarded: 4
Authorized Instructor
Authorized Instructor
Authorized instructor*Certificate of Completion*

presented to

Brin Ferlito

for completing the

**Traffic Engineering Analysis Process & Report
Module 2**Date: June 11, 2018
Location: Baton Rouge, LouisianaProfessional Development
Hours (PDHs) Awarded: 4
Authorized Instructor
Authorized Instructor
Authorized instructor*Certificate of Completion*

presented to

Brin Ferlito

for completing the

**Traffic Engineering Analysis Process & Report
Module 3**Date: September 10, 2018
Location: Baton Rouge, LouisianaProfessional Development
Hours (PDHs) Awarded: 3
Authorized Instructor
Authorized Instructor
Authorized instructor

Laurence Lambert*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*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*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

Reece Rodrigue*Certificate of Completion*

presented to

Reece Rodrigue

for completing the

**Traffic Engineering Analysis Process & Report
Module 1**Date: November 5, 2018
Location: Baton Rouge, LouisianaProfessional Development
Hours (PDHs) Awarded: 2
Authorized Instructor
Authorized Instructor
Authorized instructor*Certificate of Completion*

presented to

Reece Rodrigue

for completing the

**Traffic Engineering Analysis Process & Report
Module 2**Date: November 26, 2018
Location: Baton Rouge, LouisianaProfessional Development
Hours (PDHs) Awarded: 3.5
Authorized Instructor
Authorized Instructor
Authorized instructor*Certificate of Completion*

presented to

Reece Rodrigue

for completing the

**Traffic Engineering Analysis Process & Report
Module 3**Date: December 3, 2018
Location: Baton Rouge, LouisianaProfessional Development
Hours (PDHs) Awarded: 3
Authorized Instructor
Authorized Instructor
Authorized instructor

Kristen Gahagan*Certificate of Completion*

presented to

Kristen Gahagan

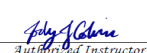
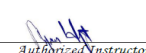
for completing the

**Traffic Engineering Analysis Process & Report
Module 1**Date: July 30, 2018
Location: Baton Rouge, LouisianaProfessional Development
Hours (PDHs) Awarded: 2.5
Authorized Instructor
Authorized Instructor
Authorized instructor*Certificate of Completion*

presented to

Kristen Gahagan

for completing the

**Traffic Engineering Analysis Process & Report
Module 2**Date: August 6, 2018
Location: Baton Rouge, LouisianaProfessional Development
Hours (PDHs) Awarded: 3
Authorized Instructor
Authorized Instructor
Authorized instructor*Certificate of Completion*

presented to

Kristen Gahagan

for completing the

**Traffic Engineering Analysis Process & Report
Module 3**Date: October 29, 2018
Location: Baton Rouge, LouisianaProfessional Development
Hours (PDHs) Awarded: 3
Authorized Instructor
Authorized Instructor
Authorized instructor

Steven Lauer

National Highway Institute
Certificate of Training



Steven Lauer

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Indiana Department of Transportation

Date: December 1-4, 2020 Hours of Instruction: 18
Location: Virtual Delivery, MI

John A. McGehee, Jr.
Digitally signed by John A. McGehee, Jr.
DN: cn=John A. McGehee, Jr., o=Indiana Department of Transportation, ou=Indiana Department of Transportation, email=jmccgehee@indot.gov, c=US

William Dittich

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute

Instructor
Fern K. Hubbard
2020.12.09 08:23:05
-0500

Jonathan McGormley

National Highway Institute
Certificate of Training



Jonathan C. McGormley

has successfully completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

SSFM International

Date: October 22-24, 2024 Hours of Instruction: 22
Location: Honolulu, HI

Mark Nyerges
Digitally signed by Mark Nyerges
DN: cn=Mark Nyerges, o=SSFM International, ou=SSFM International, email=mark.nyerges@ssfm.com, c=US

Roney Rodrigues

Local Coordinator

Stacey Caston

Stacey Caston, Director
National Highway Institute

Instructor
Bruce Thill
2024.11.05 08:05:59
-0500

Instructor



Chace Hulon

 **National Highway Institute** 

Certificate of Training

Chace Hulon
has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by
Office of State Aid Road Construction

Date: May 16-18, 2023 Hours of Instruction: 18
Location: Ridgeland, MS

Instructor: *Stacy J. Caston* Local Coordinator: *Marie Allenton*
Stacey J. Caston
Instructor: *Stacey J. Caston* Stacey J. Caston, Acting Director
National Highway Institute

 **National Highway Institute** 

Certificate of Training

Chace Hulon
has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by
California Department of Transportation

Date: April 23-26, 2024 Hours of Instruction: 24
Location: Sacramento, CA

Instructor: *Jeff Brown* Local Coordinator: *Andrew Wende*
Henry K. Brown Stacey J. Caston
Instructor: *Stacey J. Caston* Stacey J. Caston, Director
National Highway Institute



SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS
Rope Access Certification

SPRAT®
Acknowledges that
CHACE HULON
has successfully completed the evaluation and written test in accordance with SPRAT's Rope Access Certification Requirements and is a certified
Level 2 Technician

SPRAT # 070712
AWARDED: 25 January, 2025
Expires: 17 March, 2028

DAVID SARTON, EVALUATIONS COMMITTEE CHAIR
Stacy J. Caston
SPRAT PRESIDENT

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

 **National Highway Institute** 

Certificate of Training

Bryan Tyson
has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by
A.DiCesare Associates, PC

Date: October 10-13, 2023 Hours of Instruction: 24
Location: Wethersfield, CT

Instructor: *Brian J. Sparto* Local Coordinator: *Stacey J. Caston*
Stacey J. Caston
Instructor: *Stacey J. Caston* Stacey J. Caston, Director
National Highway Institute

 **National Highway Institute** 

Certificate of Training

Bryan Tyson
has Successfully Completed

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

hosted by
California Department of Transportation

Date: February 27-29, 2024 Hours of Instruction: 22
Location: Oakland, CA

Instructor: *Jeff Brown* Local Coordinator: *Andrew Wende*
Chace Hulon Stacey J. Caston
Instructor: *Stacey J. Caston* Stacey J. Caston, Director
National Highway Institute



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Rope Access Certification

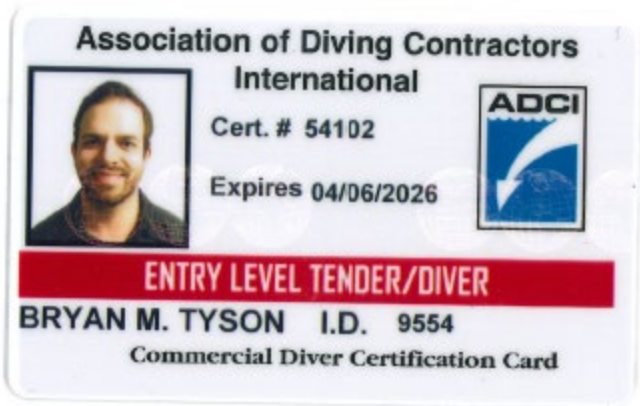
SPRAT®
Acknowledges that
BRYAN TYSON
has successfully completed the evaluation and written test in accordance with SPRAT's Rope Access Certification Requirements and is a certified
Level 1 Technician

SPRAT # 172095
AWARDED: 13 June, 2025
Expires: 17 June, 2028

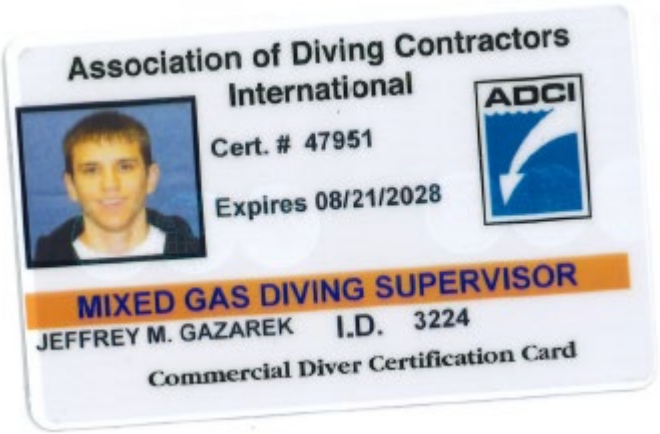
DAVID SARTON, EVALUATIONS COMMITTEE CHAIR
Stacy J. Caston
SPRAT PRESIDENT

SPRAT's Technician Verification System may be used to verify the accuracy of data on this certificate.
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Huval and Associates, Inc.



Jeffrey Gazarek



Huval and Associates, Inc.



Chip Eschenbach





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



Acknowledges that

**CHRISTOPHER ALLEN
ESCHENBACH**

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

Level 1 Technician

SPRAT #200515

AWARDED: 25 January, 2025

Expires: 25 January, 2028

David Sartori
DAVID SARTORI, EVALUATIONS COMMITTEE CHAIR
Matthew R. Smith
MATTHEW R. SMITH, SPRAT PRESIDENT

SPRAT's [Technical Verification System](#) may be used to verify the accuracy of data on this certificate.



Herodotos Pentas



National Highway Institute



Certificate of Training

Herodotos Pentas

has Successfully Completed

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

hosted by

Office of State Aid Road Construction

Date: August 22-26, 2022
Location: Ridgeland, MS

Hours of Instruction: 34

Chris P. Boyle, P.E.
Instructor

Thomas V. Harman
Local Coordinator
Thomas Harman
Thomas Harman, Director
National Highway Institute



National Highway Institute



Certificate of Training

HERODOTOS PENTAS

has participated in

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

hosted by

LA DOTD/LTRC

Date: October 18-21, 2022
Location: Baton Rouge, LA

Hours of Instruction: 24

Thomas Seed
Instructor
William Edberg
Instructor

Thomas H. Harman
Local Coordinator
Thomas Harman
Thomas Harman, Director
National Highway Institute

Iris Leoncio


National Highway Institute
U.S. Department of Transportation
Federal Highway Administration

Certificate of Training

Iris Leoncio
has participated in
FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by
Collins Engineers, Inc.

Date: March 16-18, 2021 Hours of Instruction: 18
Location: Virtual Delivery, IL

Instructor: *John A. McGehee, Jr.*
Thomas Harman, Director
National Highway Institute

Local Coordinator: *Drew Garceau*
Thomas Harman, Director
National Highway Institute

Digital signed by FARRIS A. McGehee, Jr. Date: 2021.03.26 17:22:02 -0400

Eric Vugteveen


National Highway Institute
U.S. Department of Transportation
Federal Highway Administration

Certificate of Training

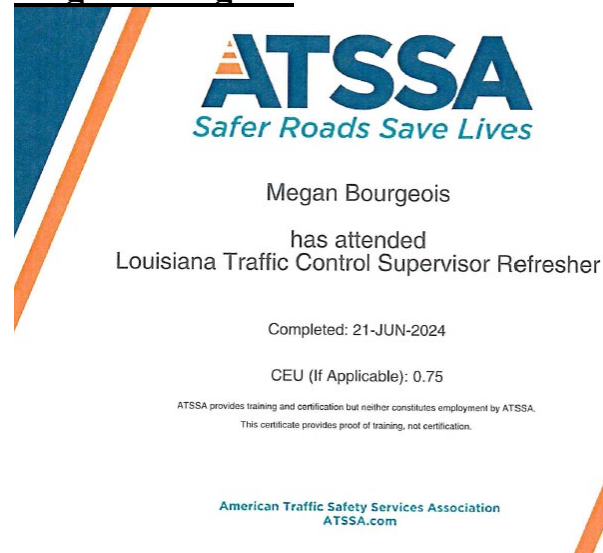
Eric P. Vugteveen
has Successfully Completed
FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by
Moffatt & Nichol

Date: November 16-18, 2022 Hours of Instruction: 18
Location: Suffolk, VA

Instructor: *John A. McGehee, Jr.*
Thomas Harman, Director
National Highway Institute

Local Coordinator: *Thomas Harman*
Thomas Harman, Director
National Highway Institute

Megan Bourgeois


ATSSA
Safer Roads Save Lives

Megan Bourgeois
has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 21-JUN-2024
CEU (If Applicable): 0.75

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

American Traffic Safety Services Association
ATSSA.com



ATSSA
Safer Roads Save Lives

Megan Bourgeois
has attended
National Flagger Certification Training Course

Completed: 15-AUG-2024
CEU (If Applicable): 0

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

American Traffic Safety Services Association
ATSSA.com

Robert Jewell

Robert Jewell
has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 23-AUG-2024

CEU (If Applicable): 0.75

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

American Traffic Safety Services Association
ATSSA.com





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Name	Type	City	Status
HUVAL & ASSOCIATES, INC.	Business Corporation	LAFAYETTE	Active

Previous Names

Business: HUVAL & ASSOCIATES, INC.
 Charter Number: 34351949D
 Registration Date: 3/21/1990

Domicile Address

922 W. PONT DES MOUTON RD.
 LAFAYETTE, LA 70507

Mailing Address

C/O DAVID S. HUVAL, SR.
 922 W. PONT DES MOUTON RD.
 LAFAYETTE, LA 70507

Principal Office Address

922 W. PONT DES MOUTON RD.
 LAFAYETTE, LA 70507

Status

Status: **Active**
 Annual Report Status: **In Good Standing**
 File Date: 3/21/1990
 Last Report Filed: 3/24/2025
 Type: Business Corporation

Registered Agent(s)

Agent: DAVID S. HUVAL, SR.
 Address 1: 922 W. PONT DES MOUTON RD.
 City, State, Zip: LAFAYETTE, LA 70507
 Appointment Date: 3/21/1990

Huval and Associates, Inc.



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

Previous Names

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

Business: MOFFATT & NICHOL INC.

Charter Number: 34527896F

Registration Date: 5/23/1996

Domicile Address

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

Mailing Address

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

Principal Business Office

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

Registered Office in Louisiana

 3867 PLAZA TOWER DR.
 BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana

 301 MAIN STREET
 SUITE 800
 BATON ROUGE, LA 70801

Status

 Status: **Active**

 Annual Report Status: **In Good Standing**

Qualified: 5/23/1996

Last Report Filed: 4/23/2025

Type: Business Corporation (Non-Louisiana)

Registered Agent(s)

Agent: C T CORPORATION SYSTEM

Address 1: 3867 PLAZA TOWER DR.

City, State, Zip: BATON ROUGE, LA 70816

 Appointment
 Date: 5/23/1996



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

Previous Names

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

Domicile Address

740 S PIERCE AVE
 UNIT 15
 LOUISVILLE, CO 80027

Mailing Address

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

Principal Business Office

740 S PIERCE AVE
 UNIT 15
 LOUISVILLE, CO 80027

Registered Office in Louisiana

8550 UNITED PLAZA BUILDING II, STE. 305
 BATON ROUGE, LA 70809

Principal Business Establishment in Louisiana

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

Status

Status: **Active**
 Annual Report Status: **In Good Standing**
 Qualified: 2/27/2012
 Last Report Filed: 4/21/2025
 Type: Business Corporation (Non-Louisiana)



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 OF STATE** **NANCY LANDRY**


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

Previous Names

Business: ARDAMAN & ASSOCIATES, INC.
 Charter Number: 34396031F
 Registration Date: 12/13/1991

Domicile Address

8008 SOUTH ORANGE AVENUE
 ORLANDO, FL 32809

Mailing Address

3475 E. FOOTHILL BLVD.
 PASADENA, CA 91107

Principal Business Office

8008 SOUTH ORANGE AVENUE
 ORLANDO, FL 32809

Registered Office in Louisiana

3867 PLAZA TOWER DR.
 BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana

316 HIGHLANDIA DR.
 BATON ROUGE, LA 70816

Status

Status: **Active**
 Annual Report Status: **In Good Standing**
 Qualified: 12/13/1991
 Last Report Filed: 11/19/2024
 Type: Business Corporation (Non-Louisiana)

Registered Agent(s)

Agent: C T CORPORATION SYSTEM
 Address 1: 3867 PLAZA TOWER DR.
 City, State, Zip: BATON ROUGE, LA 70816
 Appointment Date: 12/13/1991

Huval and Associates, Inc.



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

Previous Names

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

Domicile Address

4467 BLUEBONNET BLVD.
 SUITE A
 BATON ROUGE, LA 708099639

Mailing Address

PO BOX 14269
 BATON ROUGE, LA 70898

Status

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

Registered Agent(s)

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



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Name	Type	City	Status
BLUEWING CIVIL CONSULTING, LLC	Limited Liability Company	LAFAYETTE	Active

Previous Names

Business: BLUEWING CIVIL CONSULTING, LLC
 Charter Number: 42093964K
 Registration Date: 12/4/2015

Domicile Address

604 SAINT JOHN ST.
 LAFAYETTE, LA 70501

Mailing Address

C/O ALEX GUILLORY
 P.O. BOX 3384
 LAFAYETTE, LA 70502

Status

Status: **Active**
 Annual Report Status: **In Good Standing**
 File Date: 12/4/2015
 Last Report Filed: 11/4/2024
 Type: Limited Liability Company

Registered Agent(s)

Agent: ALEX GUILLORY
 Address 1: 607 MADISON ST. APT. A
 City, State, Zip: LAFAYETTE, LA 70501
 Appointment Date: 12/4/2015



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Name	Type	City	Status
NTB ASSOCIATES, INC.	Business Corporation	SHREVEPORT	Active

Previous Names

NTB, INC. (Changed: 1/4/2000)

Business: NTB ASSOCIATES, INC.

Charter Number: 34216133D

Registration Date: 8/14/1986

Domicile Address

 525 LOUISIANA AVE.
SHREVEPORT, LA 71101

Mailing Address

 525 LOUISIANA AVE.
SHREVEPORT, LA 71101

Principal Office Address

 525 LOUISIANA AVE.
SHREVEPORT, LA 71101

Status

Status: Active

Annual Report Status: In Good Standing

File Date: 8/14/1986

Last Report Filed: 7/25/2025

Type: Business Corporation

Registered Agent(s)

 Agent: W. JAMES HILL, III
 Address 1: 8570 BUSINESS PARK DR.
 City, State, Zip: SHREVEPORT, LA 71105
 Appointment Date: 8/14/1986



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

Previous Names

Business: WISS, JANNEY, ELSTNER ASSOCIATES, INC.
 Charter Number: 34520200F
 Registration Date: 3/4/1996

Domicile Address

330 PFINGSTEN RD.
 NORTHBROOK, IL 60062

Mailing Address

330 PFINGSTEN RD.
 NORTHBROOK, IL 60062

Principal Business Office

330 PFINGSTEN RD.
 NORTHBROOK, IL 60062

Registered Office in Louisiana

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

Principal Business Establishment in Louisiana

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

Status

Status: **Active**
 Annual Report Status: **In Good Standing**
 Qualified: 3/4/1996
 Last Report Filed: 2/27/2025
 Type: Business Corporation (Non-Louisiana)

Huval and Associates, Inc.



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

Previous Names

Business: MARRERO, COUVILLON & ASSOCIATES, L.L.C.
 Charter Number: 34604188K
 Registration Date: 12/31/1997

Domicile Address

2644 SOUTH SHERWOOD FOREST BLVD; SUITE 200
 BATON ROUGE, LA 70816

Mailing Address

2644 SOUTH SHERWOOD FOREST BLVD
 SUITE 200
 BATON ROUGE, LA 70816

Status

Status: **Active**
 Annual Report Status: **In Good Standing**
 File Date: 12/31/1997
 Last Report Filed: 12/3/2024
 Type: Limited Liability Company

Registered Agent(s)

Agent: ALLEN DARDEN
 Address 1: 17904 PRESTWICK AVE.
 City, State, Zip: BATON ROUGE, LA 70810
 Appointment Date: 7/16/2013



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Name	Type	City	Status
ELOS ENVIRONMENTAL, L.L.C.	Limited Liability Company	HAMMOND	Inactive

Previous Names

KREBS LASALLE ENVIRONMENTAL, L.L.C. (Changed: 12/16/2011)

Business: ELOS ENVIRONMENTAL, L.L.C.

Charter Number: 36335970K

Registration Date: 12/15/2006

Domicile Address

607 WEST MORRIS AVE

HAMMOND, LA 70403

Mailing Address

C/O LUCAS WATKINS

607 WEST MORRIS AVE

HAMMOND, LA 70403

Status

Status: Inactive

Inactive Reason: MERGED

File Date: 12/15/2006

Last Report Filed: 11/21/2022

Type: Limited Liability Company

Registered Agent(s)

Agent: JENNIFER LEE

Address 1: 111 NORTH OAK STREET

Address 2: SUITE 200

City, State, Zip: HAMMOND, LA 70401

Appointment Date: 1/24/2019



**IDIQ CONTRACT FOR BRIDGE PRESERVATION SERVICES STATEWIDE
BRIDGE QUALITY MANAGEMENT PLAN**

Prepared for:

Contract No. 4400033117, 4400033118, 4400033119

Prepared by:

HUVAL & ASSOCIATES, INC.

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1. INTRODUCTION

The HUVAL Design Team has a goal of providing timely, efficient, and high-quality bridge engineering services to its clients. Safety is a top priority for the Team and its staff of qualified professionals. Successful completion of a project requires top-quality planning, teamwork, management, and a thorough review of all plans and documents.

In order to best serve the LADOTD, we have developed this Quality Control / Quality Assurance (QC/QA) plan. Since the LADOTD is our primary client, we have incorporated the QC/QA requirements of the LADOTD into this plan in order to produce quality sets of plans. According to the LADOTD's Construction Plans Quality Control / Quality Assurance Manual, a quality set of plans should have the following characteristics (The 5 C's): complete, consistent, clear, correct, and constructible. Our goal is to meet and exceed the requirements presented under the LADOTD Bridge Design Section Policy on Quality Control and Quality Assurance and the Guidance on QC/QA in Bridge Design in Response to NTSB Recommendation (H-08-17) in order to achieve the desired result of a quality set of plans.

The following QC/QA plan is proposed as a general document/guideline and may be modified based upon the specified scope of an individual project/task order and input from the LADOTD. The QC/QA Plan has been made to assure the LADOTD that the Huval Design Team understands the complexities associated with each project and are prepared to produce an accurate and complete submittal. The process assures that quality a set of Construction Plans will be submitted for Bid, thus, minimizing Plan Revisions and Plan Changes.

1.1 Definition of Terms and Positions

Quality Control (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.

Quality Assurance (QA): Procedures of reviewing the work to ensure the quality controls are in place and effective in preventing mistakes, and consistency in the development of bridge design plans and specifications; those actions, procedures, and methods employed at the management and senior technical levels to observe and ensure that prudent quality procedures are in place and are being carried out and that the desired result of a quality product is achieved.

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.

Design 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.

Detailer: Individual responsible for preparing drawings. This individual/s is responsible for development of the drawing through the use of required CAD technology.

Reviewer: Engineer responsible for ensuring that the QC process has been followed as outlined. The Reviewer is responsible for ensuring that submittals are complete and in accordance with LADOTD Bridge Design practices, policies and procedures

Engineer of Record: Qualified Engineer responsible for stamping the Final set of Plans and assuring that QC/QA certification is signed by all responsible parties.

Team Leader: Project Manager or Task Assignee responsible for overseeing the project and staff on the project. Responsible for conducting audits and ensuring quality control plans are adhered to for each discipline.

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: Document agreed to by the LADOTD and Consultant prior to design that establishes the design guidelines and procedures to be used for the design of the project. The Design Criteria shall include a Checklist that lists all the criteria, factors, software and general guidelines to be used for each discipline required for this project. The Checklist is based upon the LADOTD Bridge Design Section Policy on Quality Control and Quality Assurance Appendix A: Design Criteria Checklist.

2. BRIDGE DESIGN TEAM AND CONSULTANT RESPONSIBILITIES

As the Prime Consultant, HUVAL has selected experienced staff and Sub-consultant firms with qualified personnel to assist in the design of the required bridge structures for the project. Huval shall have the role of the project manager, Lead Bridge Designer and will also be responsible for the scope development of individual task orders. Huval shall also be responsible for QC/QA of the bridge/structural plans and design calculations.

2.1 File Management

Refer to Quality System Procedure (QSP) No. 9 of the QA/QC Plan for document and file management control requirements.

2.2 CADD

All drawings shall be performed in Microstation V8i and be CADD Conformed to LADOTD standards. HUVAL will be responsible for assuring that these requirements are met by all Consultants.

2.3 LADOTD Roles

Quality control is the sole responsibility of the Design Team. The Team shall be responsible for completing quality control in accordance with this document and the QM prior to all submissions. LADOTD's role shall be limited to providing comments on the substance provided and not completely reviewing the plans for errors and omissions.

3. DESIGN CRITERIA AND SOFTWARE

The following sections discuss the Design Team's procedures for Design Criteria and Software determination.

3.1 Design Criteria

Design criteria will be created based on the requirements of the Bridge Design and Evaluation Manual. If applicable the design criteria shall include but not be limited to;

- Governing Design and Construction Specifications and Other References
- Design Assumptions and Design Exceptions
- General Information
- Hydraulic Design Criteria
- Design Factors
- Design Loads
- Limit States
- Bridge Barrier
- Guardrail
- Approach Slab
- Deck and Deck Drainage
- Bearings
- Joints
- Superstructure
- Substructure
- Piles
- Geotechnical Design
- Electrical/ Lighting Design
- As-Designed Rating Criteria
- Software

The design criteria will be submitted to LADOTD for review and approval prior to the start of design. The design criteria will be updated as necessary but resubmitted to LADOTD for review and approval.

Design memorandums will be issued to the Team for all major decisions that affect the design.

3.2 Software

The Design Team shall adhere to LADOTD policies regarding software by using only design software which is pre-approved by the LADOTD. Design and drafting software to be used on the Project shall be listed in the design criteria. In the event software has not been pre-approved by the LADOTD, the Design Team shall adhere to the following stipulations in order to seek LADOTD approval of the software to be used.

A synopsis of the software shall be submitted to the Bridge Design Engineer Administrator for approval prior to use. The synopsis shall include the name of the software and the developer, a general description of the functions, a certification from the software developer stating that it is maintained in accordance with the latest AASHTO LRFD Bridge Design Specifications, and an account of the requester's experience and the experience of other organizations or agencies that use the software. Data/results from in-house software will not be accepted as part of the deliverable.

4. DESIGN QUALITY MANAGEMENT PLAN

4.1 Quality Management Overview

A specific Quality Control/Quality Assurance process has been established for the design of all bridges for the projects. This shall include design and detail reviews among the designated design team responsible for the design.

Detailed procedures for QC and QA are described in the following sections.

4.2 Quality Control Process (QC)

Design Calculations and Plans

Quality control starts with the Designer. The Designer is responsible for producing and reviewing all calculations and details prior to being checked. It is the responsibility of the Designer to develop and check the details and plans produced by the Detailers.

The design checker is the engineer responsible for performing a full technical review of the design calculations, drawings, special provisions including Non-Standard items, and cost estimate. The design checker must be licensed by the State of Louisiana a professional engineer or certified as an engineer intern; however, if the designer is an engineer intern, the design checker must be a professional engineer. The detail checker is the individual responsible for performing a full review of the CAD drawings. The detail checker can be a designer or a detailer. The design checker and detail checker shall not be the ones who perform the original design and detailing.

During the design check process, the design checker must verify the accuracy of the designer's calculations, pay items, quantities, special provisions including Non-Standard items, and cost estimate. The design checker may perform a redline check of the designer's calculations or produce an independent set of calculations and compare the results; the supervisor or team leader shall determine which method to use

depending on the complexity of the project. Regardless of the checking method employed, the designer's calculations are the calculations of record and must be updated to correct any errors or omissions discovered by the design checker. The calculations of the design checker should also become a part of the calculation of record when independent checking calculations are produced. The design checker should also ensure that the drawings adequately and accurately present the design information.

During the detail check process, the detail checker must ensure the drawings are in accordance with the design information and CAD standards. All dimensions and quantity calculations must be verified.

The checker may begin the checking process at the completion of the entire design/detail process or may check components of the designer/detailer's work as it is completed. Likewise, the checker may provide feedback at the completion of the entire checking process or as each component of check is completed. Any discrepancies that arise should be resolved between the designer/detailer and the checker, and the calculations and plan details should be corrected accordingly. If the designer/detailer and the checker are unable to resolve their discrepancies, the issue should be brought to the attention of the supervisor or team leader.

The Design Checker shall review the calculations, document for correctness and completeness, and verify that the design is properly reflected in the plans and details.

- Items needing correction are marked in red.
- Correct items are highlighted in yellow.
- Correct full paragraphs (or pages) marked with a yellow diagonal or check mark
- For software calculations, the design checker may prepare an independent model or conform the correctness of the input/out using the designers software file.

When the checker is complete, all calculations and details should be highlighted and sent back to the designer. Any discrepancies are to be resolved prior to completion of the calculation package and noted.

Upon completion of the submittal by the Designer and Design Checker, the Reviewer shall review the calculation documents along with the details used to develop the calculations. The Reviewer is responsible for checking the plans for completeness and accuracy prior to a submittal. The Reviewer shall document their review.

- Agreement shown with a blue check mark
- Disagreement are discussed are shown in red.
- The review is sent back to the Designer. Any disagreements are to be resolved prior to completion of the submittal.

All reviews and comments shall be recorded and documented by the EOR.

4.3 Quality Assurance Process (QA)

QA is defined as the procedures of reviewing the work to ensure the quality control procedures

are in place and effective in preventing mistakes, and consistency in the development of bridge design plans and specifications. Prior to submitting the plans to the Quality Manager (QM), the Reviewer is responsible for ensuring that the QC process is complete and that the design calculations, drawings, special revisions, and cost estimates are in accordance with LADOTD Bridge Design practices, policies and procedures.

The Reviewer shall verify the constructability of the plans and that critical structural areas are accurate and designed properly. The Reviewer provides the designer with any concerns or deficiencies observed in the design and plans. These issues are resolved prior to formal submittal to the DQM.

Upon completion of the QA process, the plans are submitted to the QM in accordance with the overarching Comité project CMAR QA/QC Plan.

5. CERTIFICATIONS

5.1 Certifications and Forms

The Design Team shall create pertinent QC/QA forms for this project and shall require that the QC/QA process is followed, and the forms are signed by the responsible parties. Huval shall document and file these forms for each deliverable where required.

5.2 Sealing of Plans

The Engineer of Record (EOR) is the Louisiana-licensed professional engineer who is assigned by the Design Unit Leader to seal the calculation, plans, and special provisions.

APPENDIX

- Design Criteria Checklist
- Final Calculation Book Checklist
- QA Information Package Checklist
- QC/QA Certification
- Consultant Submittal QC/QA Certification
- Quality Audit Checklist
- Sample Check Print Stamps

Design Criteria Checklist

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

— **Cover sheet**

The following information must be included on the cover sheet:

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

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

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

— **Design Assumptions and Design Expectations**

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

— **General Information**

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

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

— **Design Factors**

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

— **Design Loads**

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

— **Limit States**

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

— **Bridge Barrier**

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

— **Guardrail**

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

— **Approach Slab**

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

— **Deck and Deck Drainage**

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

— **Bearing**

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

— **Joint**

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

— **Superstructure**

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

— **Substructure**

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

— **Piles and Drilled Shafts**

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

— **Geotechnical Design**

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

— **Mechanical Design**

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

— **Electrical Design**

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

— **As-Designed Bridge Rating Criteria**

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

Final Calculation Book Checklist

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

- **Cover Sheet**
The following information must be included on the cover sheet:
 - LADOTD project number
 - Project name
 - The title of “Final Calculation Book”
 - The EOR’s seal with signature and date
- **Final Calculation Book Check List**
- **QC/QA Certifications**
- **Peer Review Resolution Agreement (if peer review is performed)**
- **Design Criteria**
- **Final Hydraulic Analysis Report from Hydraulic Engineer**
- **Final Geotechnical Analysis Report from Geotechnical Engineer**
- **Superstructure Design Calculations**
- **Substructure Design Calculations**
- **Quantity Calculations**
- **Special Provisions/NS-Items**
- **Construction Cost Estimate**
- **As-Designed Rating Report**
- **List of All Final Electronic Design Files and File Locations (ProjectWise directory name)**

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

- **A PDF File of the Calculation Book**
- **All Electronic Design Files**
- **A PDF File of the As-Designed Rating Report Only**

QA Information Package Checklist

Project No.: TBD

Project Description: TBD

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

QC/QA Certification

Project No.: TBD

Project Description: TBD

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						
EOR						

Consultant Submittal QC/QA Certification

Project No.: TBD

Project Description: TBD

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

QUALITY AUDIT CHECKLIST

AUDITED AREA:			DATE(S) OF AUDIT:	
AUDITOR:			AUDIT:	
AUDIT ITEM	REFERENCE	METHOD 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.		

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 _____

22.Sub-consultant information:

Firm Name (Name must match <u>exactly</u> as registered with Louisiana's Secretary of State (SOS): <u>including punctuation, include screenshot(s) from SOS at the end of Section 20</u>)	Address	Point of Contact and email address	Phone Number
Wiss, Janney, Elstner Associates, Inc.	330 Pfingsten Road, Northbrook, IL 60062	Jonathan C. McGormley jmcgormley@wje.com	(847) 753-7234
Bridge Diagnostics, Inc.	4300 S I-10 Service Rd W Suite 210, Metairie, LA 70001	Steven Fall, PE stevenf@bditest.com	504.874.1042
Ardaman & Associates, Inc.	316 Highland Dr. Baton Rouge, LA 70810	Robert Jewell RJewell@Ardaman.com	(225)752-4790
NTB Associates, Inc.	525 Louisiana Ave., Shreveport, LA 71101	Michael J. King mking@ntbainc.com	(225) 751-4002
Vectura Consulting Services, LLC	PO Box 14269 Baton Rouge, LA 70898	Brin Ferlito bferlito@vecturacs.com	225-223-6685
Moffatt & Nichol Inc.	301 Main Street, Suite 800 Baton Rouge, LA 70801	Chace Hulon, P.E. chulon@moffattnichol.com	(225) 610-1932
ELOS Environmental, LLC	607 W. Morris Avenue Hammond, LA 70403	Lucas Watkins lwatkins@elosenv.com	985-662-5501
Bluewing Civil Consulting, LLC	604 Saint John St. Lafayette, LA 70501	Alex Guillory, PE, CFM alex@bluewgincivil.com	337-419-0911
Marrero, Couvillon & Associates, L.L.C.	3525 Hessmer Ave, Suite 304 Metairie, Louisiana 70002	M. Kimball Schlafly, P.E.	504-834-3448

23.Location:

If location is an evaluation criterion for this advertisement (see page 2) and the prime consultant intends to establish a local presence, describe the plan for doing so. **Otherwise, leave this section blank. Any information included in this section will be redacted if not required by the Evaluation Criteria section of the advertisement.**