



Statement of Qualifications for:

**LA 44: Pelican Point Roundabout
and Widen**

Contract No. 4400028434

State Project No. H.015568.5

Federal Aid Project No. H015568

Submitted to:

**LA Department of Transportation and
Development**

February 6, 2024


DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES

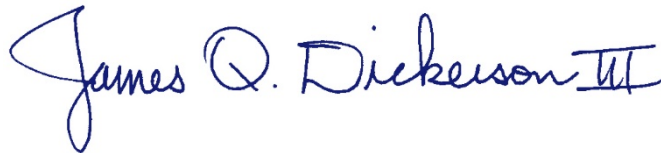
(Revised January 1, 2023)

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	LA 44: Pelican Point Roundabout and Widen
2. Contract number(s) as shown in the advertisement	4400028434
3. State Project Number(s), if shown in the advertisement	H.015568.5
4. Prime consultant name (name must match as registered with the Louisiana Secretary of State where such registration is required by law)	BUCHART HORN, INC.  BUCHART HORN ENGINEERS • ARCHITECTS • PLANNERS
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0000123
6. Prime consultant mailing address	18163 East Petroleum Drive, Suite A Baton Rouge, LA 70809
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	18163 East Petroleum Drive, Suite A Baton Rouge, LA 70809
8. Name, title, phone number, and email address of prime consultant's contract point of contact	James Q. Dickerson, III, PE, PS (662) 267-5038 JDickerson@bucharthorn.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	James Q. Dickerson, III, PE, PS (662) 267-5038 JDickerson@bucharthorn.com

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

Signature (shall be the same person as #9):





 Date: February 6, 2024

11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.

<u>Firm(s):</u>	<u>Firm(s)' %:</u>
Vectura Consulting Services, LLC	10%



12. Past Performance Evaluation Discipline Table:

Past Performance Evaluation Discipline(s)	% of Overall Contract	Prime  Buchart Horn, Inc	Firm A  Vectura Consulting Services, LLC	Firm B  WSP USA Inc.	Each Discipline must total to 100%
Road	<u>60%</u>	<u>100%</u>			<u>100%</u>
Bridge	<u>30%</u>			<u>100%</u>	<u>100%</u>
Traffic	<u>10%</u>		<u>100%</u>		<u>100%</u>
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.					
Percent of Contract	<u>100%</u>	<u>60%</u>	<u>10%</u>	<u>30%</u>	<u>100%</u>



13. Firm Size:

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
Buchart-Horn, Inc.	Principal	1	2
Buchart-Horn, Inc.	Supervisor - Eng	2	3
Buchart-Horn, Inc.	Engineer	3	4
Buchart-Horn, Inc.	Engineer Intern	2	3
Buchart-Horn, Inc.	Designer	2	3
Buchart-Horn, Inc.	Inspector	1	3
Vectura Consulting Services, LLC	Supervisor - Eng	2	2
Vectura Consulting Services, LLC	Engineer	3	3
Vectura Consulting Services, LLC	Engineer Intern	1	2
WSP USA Inc.	Principal	1	25
WSP USA Inc.	Supervisor - Eng	3	12
WSP USA Inc.	Engineer	5	32
WSP USA Inc.	Inspector - Bridge	3	80
WSP USA Inc.	Engineer Intern	1	32
WSP USA Inc.	CADD Drafter	2	4
WSP USA Inc.	Technician	2	8

(Add rows as needed)

14. Organizational Chart:



Subconsultants

(VCS) Vectura Consulting Services, LLC (DBE) | (WSP) WSP USA Inc.










* Completed Appropriate Work Zone Training Courses

Buchart Horn, 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	State of license	License / certification expiration date
1, 2, 3	James Q. Dickerson, III, PE, PS		Professional Engineer Civil PE.0038922	LA	9/30/2024
2	Daniel J. Magri, PE		Professional Engineer Civil PE.0021669	LA	3/31/2024
2, 3	Kevin J. Gaspard, PE		Professional Engineer Civil PE.0023835	LA	3/31/2025
2, 3	Caldwell P. Joy, PE		Professional Engineer Civil PE.0043830	LA	3/31/2024
2, 3	Wm. Andrew Pinkley, PE, CPESC		Professional Engineer Civil PE.0040713	LA	9/30/2024
2, 3	Joseph F. Mingo, PE		Professional Engineer Civil PE.0043700	LA	3/31/2024
4	Hatem Seliem, PhD, PE, PMP		Professional Engineer Civil PE.0039759	LA	9/30/2025
4	Mark Shlyakov, PE		Professional Engineer Civil PE.0038927	LA	9/30/2024
4	Arunava Saha, PE		Professional Engineer Civil PE.00.38334	LA	3/31/2024

5	Michael Craig, PE, SE		Professional Engineer Civil PE.0041964	LA	3/31/2024
5	Lloyd (Mark) Pearson, PE		Professional Engineer Civil PE.0039629	LA	9/30/2025
5	Casey Howard, PE		Professional Engineer Civil PE.0042913	LA	3/31/2025
5	Trevor Johnson, PE		Professional Engineer Civil PE.0045518	LA	9/30/2025
6	Sheelagh Brin Ferlito, PE, PTOE		Professional Engineer Civil PE.0025383	LA	9/30/2025
6	Laurence Lambert, PE, PTOE, PTP		Professional Engineer Civil PE.0029901	LA	3/31/2024

16. Staff Experience:



Firm employed by		 BUCHART HORN ENGINEERS ARCHITECTS PLANNERS	
Name	James Q. Dickerson, III, PE, PS	Years of relevant experience with this employer	16
Title	Vice President	Years of relevant experience with other employer(s)	33
Degree(s) / Years / Specialization		Bachelor of Science / 1974 / Civil Engineering	
Active registration number / state / expiration date		Professional Engineer: 07586 / MS / Exp. 12/2025; PE.0038922 / LA / Exp. 09/2024 Professional Surveyor: PLS-02132 / MS / Exp. 12/2025	
Year registered	1979	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		BH Principal-in-Charge	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
	Mr. Dickerson has more than 49 years of professional transportation engineering experience. He served as District Engineer for the Mississippi Department of Transportation's District Two, where he was responsible for coordinating the planning, designing, construction, and maintenance of the intermodal transportation network in the 17 counties of northwest Mississippi. Mr. Dickerson's areas of expertise include project management, quality assurance, constructability review, and construction engineering and inspection. Mr. Dickerson meets MPR Nos. 1, 2, & 3.		
04/14 – 09/17	LA 19 Widening (LA 64 to Sunset Boulevard), Feasibility and Planning Study, LADOTD, Baton Rouge, LA. BH prepared a Feasibility and Planning Study and Environmental Inventory according to the LADOTD Manual of Standard Practice to evaluate the feasibility of widening 1.4 miles of LA 19 from LA 64 to Sunset Boulevard per the Cooperative Endeavor Agreement (CEA) between LADOTD and the City of Zachary. An additional cost estimate was developed at the request of the client for the widening of LA 19 from LA 64 to Montegudo Boulevard. Principal-in-Charge with quality control oversight.		
12/15 – 01/21	US 167 Feasibility and Planning Study, Elsie Street to Gilbert Drive, LADOTD, Ville Platte, LA. BH is preparing a feasibility and planning study to evaluate the addition of a third lane to US 167 from Elsie Street south to a point past Gilbert Drive. Environmental impacts and cost estimates will be prepared. Principal-in-Charge with quality control oversight.		
07/17 – 08/18	New Roundabout, Parish Road 929 at Parker Road, Ascension Parish, Prairieville, LA. Design of a single-lane asphalt roundabout at the intersection of Parish Road 929 and Parker Road to replace the existing stop-controlled intersection. Services include topographic survey, preliminary and final roundabout plans and specifications, right of way maps, SUE, and construction engineering and inspection. Principal-in-Charge with quality control oversight.		
07/17 – 07/20	New Roundabout at LA 931 and Roddy Road, Ascension Parish, Gonzales, LA. BH is providing design services for a new single-lane asphalt roundabout at the intersection of LA 931 and Roddy Road in Gonzales, LA. Services include preparing a roundabout report (crash analysis, cost-benefit analysis, traffic analysis, speed study, safety analysis), electrical lighting design, subsurface drainage, permit application, preliminary and final design plans, specifications, special provisions, construction estimates, and engineering calculations. Principal-in-Charge with quality control oversight.		

04/19 – 08/19	Citrus Boulevard Improvements Traffic Engineering, Jefferson Parish, LA. BH provided traffic engineering and related services for upgrades of two intersections along Citrus Boulevard, in conjunction with roadway improvements, to accommodate the installation of a left turn lane, as well as removal and replacement of detection loops. The project included minor improvements at two intersections: Modification of a traffic signal due to the addition of left turn movement at Edwards Avenue and Citrus Boulevard and removal and replacement of loops at Dickory Avenue and Citrus Boulevard intersection. Principal-in-Charge with quality control oversight.
12/15 – 12/20	Retainer Contract for Feasibility and Planning Studies, LADOTD, Statewide, LA. Five-year retainer contract to perform feasibility and planning studies for various transportation projects throughout Louisiana. BH has previously been awarded several similar contracts. Work will be assigned by task order over the life of the contract. Principal-in-Charge with quality control oversight.
05/21 – Ongoing	Safety Studies for US 61 from Cardinal Drive to Bert Street, LADOTD, LaPlace, LA. BH performed a study to identify safety issues along approximately three miles of Airline Highway (US 61) in Laplace, LA and evaluate reasonable alternatives to address the issue(s). The approximate intersection termini are Bert Street and Cardinal Drive. Principal-in-Charge with quality control oversight.
04/13 – Ongoing	US 84 Improvements, LADOTD, Winnfield, LA. Performed environmental assessments on the west and east side of Winnfield, including line and grade studies for several alternatives, environmental impacts, and traffic and bridge studies. Principal-in-Charge with quality control oversight.
03/19 – Ongoing	LA 117 from LA 8 to LA 118 Feasibility and Planning Study and Environmental Inventory, LADOTD, Leesville, LA. BH performed a Feasibility and Planning Study (referred to by the LADOTD as a "Stage 0" study) for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study compared correcting vertical and horizontal geometry along with adding shoulders to adding passing lanes and turn lanes at strategic locations. Environmental impacts and cost estimates were prepared. Principal-in-Charge with quality control oversight.
03/19 – 02/20	LA 429 Connector Feasibility and Planning Study, LADOTD, Ascension Parish, LA. BH prepared a Feasibility and Planning Study to evaluate alignments for a limited-access corridor (LA 429) in the vicinity of I-10, between LA 30, LA 73, and US 61 in Ascension Parish, LA. The purpose of the new LA 429 connector road is to create another route for motorists to travel from LA 30 to US 61, decreasing travel time along existing corridors. Two alternatives for the widening and reconstruction of LA 429 will be evaluated. The scope consists 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. Principal-in-Charge with quality control oversight.
11/13 – 08/19	US 425 Roundabout Design, Retainer Contract for Highway Safety, Sigma Consulting Group, Inc./LADOTD, Rayville, LA. Design of a new six-legged roundabout at the intersection of US 425, Grimshaw Street, and Christian Drive and relocation of an existing frontage road, including construction phasing, quantity calculations, cost estimates, and drainage design. Principal-in-Charge.



Name	Daniel J. Magri, PE		Years of relevant experience with this employer	2
Title	Director – Transportation South		Years of relevant experience with other employer(s)	38
Degree(s) / Years / Specialization			Bachelor of Science / 1979 / Civil Engineering	
Active registration number / state / expiration date			PE.0021669 / LA / Exp. 03/2024	
Year registered	1985	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities.			BH QA/QC	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
	Mr. Magri obtained his bachelor’s degree in civil engineering from Louisiana State University and has 40 years of diverse public-sector transportation experience. His professional background includes 30 years at the Louisiana Department of Transportation & Development (DODT), where he last served as Assistant Secretary for the Office of Planning, and previously as Deputy Assistant Secretary for the Office of Planning, Assistant Public Hearings and Environmental Impact Engineer, Highway Safety Engineer, and Highway Safety Administrator. Dan is a member of the Institute of Transportation Engineers (ITE), the American Society of Civil Engineers, and past President of the Association of Transportation Safety Information Professionals (ATSIP). Dan was the recipient of the Charles E. Dunbar, Jr., Career Civil Service Award, which is the highest honor classified state employees can receive for their service to the citizens of Louisiana. Mr. Magri meets MPR No. 2.			
02/22 – 05/22	Highway 7 Traffic Impact Study, Precision Engineering Corporation, Oxford, MS. BH performed a study to determine the impact of a proposed residential development to the surrounding networks near Highway 7 in Oxford, MS. The traffic impact study (TIS) included an analysis of the expected traffic conditions for several scenarios. The report provided a summary of the existing conditions, trip generation, trip distribution and assignment, Level of Service, and warrant analysis. Horizontal and vertical stopping sight distances were estimated based on design criteria along with storage lengths needed for turning movements into and out of the proposed development.			
2017 - 2021	Louisiana Department of Transportation and Development, Baton Rouge, LA. Assistant Secretary/Deputy Assistant Secretary, Office of Planning. Administered the planning and programming matters of the Department related to highways, bridge and pavement management, data collection and analysis, highway safety, cartography, public transit and related matters, and any other special programs as directed by the Assistant Secretary and the Secretary. Directed four distinct sections of the Office with responsibilities in the areas of (1) public road inventory, traffic monitoring, pavement and bridge management systems, and cartography, (2) highway safety and crash database management, (3) statewide and metropolitan transportation planning, highway project selection and programming, highway needs assessments, project scoping, and management of special projects, and (4) public transit.			
1996 - 2017	Louisiana Department of Transportation and Development, Baton Rouge, LA. Traffic Safety Engineer/Traffic Safety Manager/Highway Safety Administrator. Administered the activities for the Department’s Highway Safety Program Section of the Office of Planning. Activities related to this Section included highway safety policy and program development, traffic safety records, tort reduction, and the Louisiana Strategic Highway Safety Plan (SHSP). Administered			

	<p>the statewide Highway Safety Improvement Program and coordinated the activities of the nine District Traffic Operations Engineers on all matters dealing with highway safety and the study of crash locations. Served as principal assistant to the Assistant Secretary and the Deputy Assistant Secretary, Office of Planning.</p> <p>Directed and implemented the State’s first Comprehensive Highway Safety Plan (CHSP). This was prior to the SAFETEA-LU (signed into law by President George W. Bush on August 10, 2005) requirement that states develop a SHSP. This effort eventually led to the development of the Louisiana SHSP to comply with SAFETEA-LU.</p> <p>Implemented the first safety analysis methodology utilizing the use of Louisiana specific Safety Performance Functions (SPFs). The SPF models provide an estimate of the normal or expected crash frequency and severity for a range of AADT among similar facilities. Louisiana DOTD still utilizes this methodology today.</p> <p>Developed and implemented LADOTD Safe Routes to School Program which is now the Safe Routes to Public Places Program (http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Multimodal/Highway_Safety/SRTPPP/Pages/default.aspx), and Local Road Safety Program (https://www.ltrc.lsu.edu/ltap/local-road-safety.html).</p> <p>Administered the preparation and adoption of the Louisiana Complete Streets Work Final Report (SPN 736-99-1478) resulting in the Louisiana Department of Transportation and Development’s first (July 2010) Complete Streets Policy.</p>
<p>1988 - 1996</p>	<p>Louisiana Department of Public Safety, Louisiana Highway Safety Commission (LHSC), Baton Rouge, LA. Highway Safety Engineering Program Manager. Managed the annual statewide highway safety program related to engineering projects from development through implementation to the evaluation of the completed projects. Developed long range highway safety plans and managed and coordinated with federal, state and local agencies to administer, implement, monitor and evaluate the projects and programs. Prepared program/project budgets and negotiated contracts with state and local project agencies. Managed the state traffic accident records system and the US DOT Fatal Accident Reporting System (FARS).</p>





Firm employed by		 BUCHART HORN ENGINEERS - ARCHITECTS - PLANNERS	
Name	Kevin J. Gaspard, PE	Years of relevant experience with this employer	3
Title	Senior Civil Engineer	Years of relevant experience with other employer(s)	36
Degree(s) / Years / Specialization		Bachelor of Science / 1984 / Civil Engineering	
Active registration number / state / expiration date		PE.0023835 / LA / Exp. 03/2025	
Year registered	1990	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Project Manager, Roadway Design	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
	Mr. Gaspard is a Senior Transportation Engineer who joined BH’s Baton Rouge team in 2020 after retiring from LADOTD. While at LADOTD, he worked in the Road Design section for nine years as a design team leader and 24 years as the Pavement and Geotechnical manager at the Louisiana Transportation Research Center. He has over 60 publications in International Journals. Mr. Gaspard has over 39 years of engineering experience and is a highly skilled Project Manager. Mr. Gaspard meets MPR Nos. 2 & 3.		
01/21 – Ongoing	New Roundabout, Parish Road 929 at Parker Road, Ascension Parish, Prairieville, LA. Design of a single-lane asphalt roundabout at the intersection of Parish Road 929 and Parker Road to replace the existing stop-controlled intersection. Services include topographic survey, preliminary and final roundabout plans and specifications, right of way maps, subsurface utility engineering (SUE), and construction engineering and inspection.		
04/21 – Ongoing	New Roundabout at LA 931 and Roddy Road, Ascension Parish, Gonzales, LA. This intersection historically involved high frequency and high severity crashes. This project is funded through the MoveAscension Initiative and addresses traffic mobility and safety issues. BH is providing design services for a new single-lane asphalt roundabout at the intersection of LA 931 and Roddy Road in Gonzales, LA. Services include preparing a roundabout report (crash analysis, cost-benefit analysis, traffic analysis, speed study, safety analysis), electrical lighting design, subsurface drainage, permit application, preliminary and final design plans, specifications, special provisions, construction estimates, and engineering calculations. This local roadway intersects a state route, resulting in LADOTD project permit requirements. The design will comply with state and federal guidelines and receive LADOTD review and approval.		
06/20 – Ongoing	Harrison Avenue Improvements Design, Phase I, St. Tammany Parish, Covington, LA. Conducted a feasibility study and subsequent design and construction management of recommended improvements. Our staff evaluated two proposed alternates for the reconstruction of Harrison Avenue and is now providing design services for the selected concept – a two-lane roadway with raised median, sidewalks, and subsurface drainage.		
06/20 – Ongoing	West Bank Group B Street Improvements, City of New Orleans DPW, Algiers, LA. BH is developing preliminary and final design plans for a designated list of streets to be enhanced in the West Bank regional area of New Orleans. The primary enhancements will include mill and overlay with full depth patching; other incidental road repairs will be required in		



	certain sections of the project area. Following design, construction administration and resident inspection services will be provided during construction of the project.
08/20 – 08/21	West Metairie Avenue Restoration, Infinity Engineering Consultants, Jefferson Parish, LA. Provided condition assessment, design, and construction documentation for the replacement of failed concrete panels, drainage structure repairs, and canal banks slope stabilization.
03/20 – Ongoing	Citrus Boulevard Improvements Traffic Engineering, Jefferson Parish, LA. BH provided traffic engineering and related services for upgrades of two intersections along Citrus Boulevard, in conjunction with roadway improvements, to accommodate the installation of a left turn lane, as well as removal and replacement of detection loops. The project included minor improvements at two intersections: Modification of a traffic signal due to the addition of left turn movement at Edwards Avenue and Citrus Boulevard and removal and replacement of loops at Dickory Avenue and Citrus Boulevard intersection. Plans provided to Jefferson Parish consisted of a traffic signal layout, including a phasing, signal wiring, an electrical schedule, signal head types, and sign layouts. Existing signal equipment in the field was inventoried and coordinated with the parish to determine best means of utilizing existing equipment.
03/20 – Ongoing	I-110 at Terrace Avenue Ramp Modification Construction Services, LADOTD, Baton Rouge, LA. BH designed street lighting associated with the construction of a new off-ramp from I-110 in Baton Rouge and is now providing construction administration services for the portion of the project designed by us. Services to be performed by BH include review contractor electrical submittals, attending periodic meetings, providing electrical as built plans and O&M manual, and providing an Arc-flash report. DOTD will provide inspection services for the ramp reconstruction and improvements.
01/21 – Ongoing	I-110 Lighting Design from North Street to Plank Road, LADOTD, Baton Rouge, LA. BH is providing surveying, roadway illumination analysis and report, electrical engineering design, design plan preparation, calculations, construction cost estimates, specifications and special provisions for a complete lighting system along I-110 from North Street to Plank Road. The proposed lighting design and analysis includes all interchanges and interface with remaining existing lighting beyond the north and south ends of the project.
10/20 – Ongoing	On-Call Contract for Electrical Services, LADOTD, Statewide, LA. Five-year contract providing as-needed electrical engineering services. Services may include but are not limited to highway lighting, navigational lighting, mechanical/electrical design and other related electrical work.
10/20 – Ongoing	US 165 Roadway Lighting, LADOTD, Monroe, LA. BH is providing surveying, Subsurface Utility Engineering (SUE) services, preparing design plans, specifications, illumination analysis, engineering calculations, transportation management plans (TMP), and construction cost estimates for the development of a complete lighting system for approximately four miles along US 165 in Ouachita Parish. All engineering services provided as part of this project are being conducted and completed based on LADOTD standards and guidelines.
06/20 – Ongoing	New Lighting Construction Services, I-55 at LA 22 Interchange, LADOTD, Ponchatoula, LA. BH is providing construction management services for installation of new highway lighting at the I-55 and LA 22 Interchange. Lighting includes high-mast and pole-mounted lights. Lighting is LED and will have smart intelligence to monitor lights. Construction inspection services will be performed by a subconsultant.

Firm employed by		 BUCHART HORN ENGINEERS - ARCHITECTS - PLANNERS	
Name	Caldwell (Cal) P. Joy, PE	Years of relevant experience with this employer	3
Title	Senior Transportation Engineer	Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization		Bachelor of Science / 2012 / Civil Engineering	
Active registration number / state / expiration date		PE.0043830 / LA / Exp. 03/2024	
Year registered	2019	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Roadway Design - Lead	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
	Mr. Joy has more than 10 years of experience in the field of civil engineering. Design projects he has worked on include roadway rehabilitation, new construction, widening, sidewalk design, signal design, standard intersection, and roundabout design for state highways and local roads. He is primarily responsible for design plan preparation and detailing, typical section development, design quantity calculations, and cost estimation, which require extensive use of MicroStation and InRoads. Mr. Joy meets MPR Nos. 2 & 3.		
06/21 – 09/21	New Roundabout at LA 931 and Roddy Road, Ascension Parish, Gonzales, LA. This intersection historically involved high frequency and high severity crashes. This project is funded through the MoveAscension Initiative and addresses traffic mobility and safety issues. BH is providing design services for a new single-lane asphalt roundabout at the intersection of LA 931 and Roddy Road in Gonzales, LA. Services include preparing a roundabout report (crash analysis, cost-benefit analysis, traffic analysis, speed study, safety analysis), electrical lighting design, subsurface drainage, permit application, preliminary and final design plans, specifications, special provisions, construction estimates, and engineering calculations. This local roadway intersects a state route, resulting in LADOTD project permit requirements. The design will comply with state and federal guidelines and receive LADOTD review and approval.		
03/21 – 10/21	Retainer Contract for Safety Studies, LADOTD, Statewide. BH was awarded a five-year retainer contract for planning studies. Tasks will include Feasibility and Planning studies (referred to by the LADOTD as "Stage 0" Studies), road safety studies, preliminary and final road design plan development, specifications, and engineers' estimates for low-cost safety improvements, safety effectiveness evaluations, crash evaluations, and traffic analysis.		
11/17 – 06/19	Ouachita Par. Police Jury Sidewalks, Ouachita Parish, Safe Routes to Schools/Local Road Safety Program in West Monroe, LA. This project involved constructing sidewalk around three schools: Riser Elementary, Shady Grove Elementary, and Jack Hayes Elementary. Approximately 2.3 miles of sidewalk needed updating. A new redesign of all current sidewalks out there was needed to meet current LADOTD standards and help safely transport pedestrians. Updated widths, slopes, lengths, drainage, and driveways were all need to successfully complete this project. Construction support was also supplied on this project for the contractor. SRTS/LRSP – TO#14 Farmerville Sidewalk.		
04/18 – 09/19	Town of Farmerville Sidewalks, Union Parish, Safe Routes to Public Places Program in Farmerville, LA. This project was a set of two sections of sidewalks. One was to help transport pedestrians to the local school and the other was to help transport pedestrians to the library. Approximately 1.14 miles of sidewalk needed updating or newly constructed so they		



	met current LADOTD standards and help safely transport pedestrians. Updated widths, slopes, lengths, drainage, and driveways were all need to successfully complete this project. Construction support was also supplied on this project for the contractor.
02/17 – 09/20	Endom Bridge Approach Realignment, Ouachita Parish, Safe Routes to Schools/Local Road Safety Program in West Monroe, LA. This intersection at Endom Bridge had some serious sight distance issues and safety concerns coming off the bridge, as well as, high pedestrian volume in the area. The improvements made was an intersection realignment for better sight distance, allowing trucks to make adequate turning movements off the bridge, and safely transporting pedestrians off the bridge and into the neighborhoods.
06/21 – 09/21	Safety Studies for US 61 from Cardinal Drive to Bert Street, LADOTD, LaPlace, LA. BH performed a study to identify safety issues along approximately three miles of Airline Highway (US 61) in Laplace, LA and evaluate reasonable alternatives to address the issue(s). The approximate intersection termini are Bert Street and Cardinal Drive.
02/21 – Ongoing	Houma-Thibodaux to I-10 Corridor Environmental Impact Statement (EIS), LADOTD, Southeastern LA. Preparation of an EIS for a new 35-mile controlled access highway providing north/south system linkage between the Houma-Thibodaux areas and I-10.
08/21 – 09/21	West Metairie Avenue Restoration, Infinity Engineering Consultants/Jefferson Parish, LA. Provided condition assessment, design, and construction documentation for the replacement of failed concrete panels, drainage structure repairs, and canal banks slope stabilization.
02/21 – 02/21	I-110 Lighting Design from North Street to Plank Road, LADOTD, Baton Rouge, LA. BH is providing surveying, roadway illumination analysis and report, electrical engineering design, design plan preparation, calculations, construction cost estimates, specifications and special provisions for a complete lighting system along I-110 from North Street to Plank Road. The proposed lighting design and analysis includes all interchanges and interface with remaining existing lighting beyond the north and south ends of the project.
02/21 – 07/21	US 84 Improvements, LADOTD, Winnfield, LA. Performed environmental assessments on the west and east side of Winnfield, including line and grade studies for several alternatives, environmental impacts, and traffic and bridge studies.

Firm employed by		 BUCHART HORN ENGINEERS - ARCHITECTS - PLANNERS	
Name	Wm. Andrew Pinkley, PE	Years of relevant experience with this employer	21
Title	Senior Civil Engineer	Years of relevant experience with other employer(s)	18
Degree(s) / Years / Specialization		Master of Science / 1992 / Civil Engineering Bachelor of Science / 1984 / Civil Engineering	
Active registration number / state / expiration date		Professional Engineer: PE.0040713 / LA / Exp. 09/2024; 20453 / TN / Exp. 01/2025; 16759 / MS / Exp. 12/2025; 63244 / FL / Exp. 02/2025; 14929 / AR / Exp. 12/2025; PE031644 / GA / Exp. 12/2024	
Year registered	1989	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Roadway Design	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
	Mr. Pinkley has more than 39 years of experience in the management and design of civil engineering projects. His experience with governmental work has involved the planning, design, and construction of major transportation-related projects, including airports, highways, and rail and port facilities in Tennessee, Louisiana, Mississippi, Arkansas, and Florida. His experience in the development and construction of private facilities has led to an understanding of the relationships among the different design disciplines required in such projects. Recently, he has been managing several Roadway Safety Audits throughout West Tennessee. Mr. Pinkley meets MPR Nos. 2 & 3.		
06/20 – 01/21	US 190 Roadway and Bridge Improvements, LA 437 to Business US 190, LADOTD, St. Tammany Parish, LA. Stage 3 design for preliminary and final plans for road and bridge improvements. Geotechnical engineering and a traffic management plan will be included via supplemental agreement. BH is responsible for design development in preliminary and final design plan stages. Services are being provided in support of prime consultant T. Baker Smith.		
05/10 – 09/10	US 72 Traffic Signalization Study and Optimization, Mississippi Department of Transportation, Corinth, MS. Development, refinement, and implementation of coordinated traffic signal timing plans for eight signalized intersections in the city of Corinth, MS. Plans preparation for the upgrading of the signals were developed for implementation by MDOT personnel. Senior Engineer responsible for providing technical guidance to staff during traffic study and report preparation and performing QC reviews with design staff to ensure project met client's standards.		
04/13 – 05/14	Traffic Calming Feasibility Study, City of Memphis, TN. Conducted traffic studies to determine the potential effectiveness of installing traffic calming devices and speed humps at 71 sites throughout Memphis. Typical activities included speed and volume studies, data collection and traffic studies, and device placement and petition packages. Senior Engineer responsible for providing technical support for roadway and traffic aspects of planning study and report. Also responsible for oversight and coordination with prime consultant of engineering studies to identify deficiencies and recommend improvements.		
10/11 – 11/11	Site Impact Study and Signal Warrant Analysis, Seeker Properties of Mississippi V, LLC, Oxford, MS. Study to determine impacts of new development upon street system and whether a signal is warranted at intersection of Jackson Avenue and		

	Harris Drive. Required conducting turning movement counts and performing a warrant study based on the additional traffic. Senior Engineer responsible for providing technical oversight and QA reviews of study and performing administrative tasks for project.
07/04 – 10/04	Large Sanitary Sewer Interceptor Condition Inspection and Engineering Study, Memphis, TN. Sewer interceptor (42-inch or greater) condition inspection and engineering study of approximately 80% of the City's 98 miles of interceptor, encompassing the Loosahatchie, Wolf, and Nonconnah River Basins and Beale and Front Streets. Project Manager responsible for inspecting sewer lines and providing technical guidance to staff during report preparation, performed QC reviews with design staff to ensure project met client's standards, as well as oversight and coordination with client.
08/03 – 06/05	James Street Interchange/Overpass Traffic Study, Parsons Brinckerhoff/ArDOT, Jacksonville, AR. Study of an urban interchange to identify roadway and traffic signal deficiencies. Short- and long-term improvements were recommended. Used HCM software and client-provided traffic movement counts and analyzed the existing signals, frontage roads, and unsignalized intersections. Senior Engineer responsible for providing technical support for roadway and traffic aspects of planning study and report and oversight and coordinating with prime consultant of engineering studies to identify deficiencies and recommend improvements.
12/03 – 06/05	Highway 82 Improvement Study, ArDOT, Stamps, AR. Planning study for a section of rural two-lane highway and the roadways intersecting it through the town of Stamps, Arkansas to determine if any deficiencies exist along this section of SR 82 and with its intersections at other state routes and local roads. Performed highway capacity analysis to determine capacity and investigation crash records to pinpoint any problem areas. Senior Engineer responsible for providing technical support for roadway and traffic aspects of planning study and report and oversight, as well as coordinating with prime consultant of engineering studies to identify deficiencies and recommend improvements.

Firm employed by		 BUCHART HORN ENGINEERS - ARCHITECTS - PLANNERS	
Name	Joseph F. Mingo, PE	Years of relevant experience with this employer	9
Title	Civil Engineer	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		Bachelor of Science / 2014 / Civil Engineering	
Active registration number / state / expiration date		PE.0043700 / LA / Exp. 03/2024	
Year registered	2019	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Roadway Design	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
	Mr. Mingo has more than 9 years of experience working on projects related to road design. He has worked on roadway rehabilitation, widening, roundabout, and lighting design projects. His primary responsibilities include design development, design plan preparation and detailing, design quantity calculations, and cost estimation. These duties require extensive knowledge and use of MicroStation and InRoads design software. Mr. Mingo meets MPR Nos. 2 & 3.		
09/15 – 03/17	LA 19 Widening (LA 64 to Sunset Boulevard), Feasibility and Planning Study, LADOTD, Baton Rouge, LA. BH prepared a Feasibility and Planning Study and Environmental Inventory according to the LADOTD Manual of Standard Practice to evaluate the feasibility of widening 1.4 miles of LA 19 from LA 64 to Sunset Boulevard per the Cooperative Endeavor Agreement (CEA) between LADOTD and the City of Zachary. An additional cost estimate was developed at the request of the client for the widening of LA 19 from LA 64 to Montegudo Boulevard. Project Designer responsible for alternative development, crash and safety analysis, environmental documentation, report preparation, and cost estimation.		
06/19 – 02/21	US 167 Feasibility and Planning Study, Elsie Street to Gilbert Drive, LADOTD, Ville Platte, LA. BH prepared a feasibility and planning study to evaluate the addition of a third lane to US 167 from Elsie Street south to a point past Gilbert Drive. Environmental impacts and cost estimates were prepared. Project Engineer responsible for CATscan safety analysis.		
10/17 – 09/21	New Roundabout, Parish Road 929 at Parker Road, Ascension Parish, Prairieville, LA. Design of a single-lane asphalt roundabout at the intersection of Parish Road 929 and Parker Road to replace the existing stop-controlled intersection. Services include topographic survey, preliminary and final roundabout plans and specifications, right of way maps, subsurface utility engineering (SUE), and construction engineering and inspection. Project Designer Project Engineer responsible for using MicroStation and InRoads to design and prepare plans for a single-lane roundabout as a part of the MoveAscension initiative, using LADOTD HYDR programs and InRoads Storm & Sanitary to design the subsurface drainage, and coordinating with the client to incorporate any wants and concerns.		
08/18 – 09/21	New Roundabout at LA 931 and Roddy Road, Ascension Parish, Gonzales, LA. BH is providing design services for a new single-lane asphalt roundabout at the intersection of LA 931 and Roddy Road in Gonzales, LA. Services include preparing a roundabout report (crash analysis, cost-benefit analysis, traffic analysis, speed study, safety analysis), electrical lighting design, subsurface drainage, permit application, preliminary and final design plans, specifications, special provisions, construction estimates, and engineering calculations. Project Engineer responsible for preparing 30% design plans and other documents for submittal at various stages of the project.		



09/17 – 02/21	Retainer Contract for Feasibility and Planning Studies, LADOTD, Statewide, LA. Five-year retainer contract to perform feasibility and planning studies for various transportation projects throughout Louisiana. BH has previously been awarded several similar contracts. Work will be assigned by task order over the life of the contract. Project Designer responsible for preparing exhibits for task order discussion.
06/21 – 08/21	Safety Studies for US 61 from Cardinal Drive to Bert Street, LADOTD, LaPlace, LA. BH performed a study to identify safety issues along approximately three miles of Airline Highway (US 61) in Laplace, LA and evaluate reasonable alternatives to address the issue(s). The approximate intersection termini are Bert Street and Cardinal Drive.
06/14 – 07/20	US 84 Improvements, LADOTD, Winnfield, LA. Performed environmental assessments on the west and east side of Winnfield, including line and grade studies for several alternatives, environmental impacts, and traffic and bridge studies. Project Designer responsible for report preparation.
03/19 – 06/20	LA 117 from LA 8 to LA 118 Feasibility and Planning Study and Environmental Inventory, LADOTD, Leesville, LA. BH performed a Feasibility and Planning Study for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study compared correcting vertical and horizontal geometry along with adding shoulders to adding passing lanes and turn lanes at strategic locations. Environmental impacts and cost estimates were prepared. Project Designer responsible for assisting with concept development and project exhibits.
03/19 – 09/20	LA 429 Connector Feasibility and Planning Study, LADOTD, Ascension Parish, LA. BH prepared a Feasibility and Planning Study to evaluate alignments for a limited-access corridor (LA 429) in the vicinity of I-10, between LA 30, LA 73, and US 61 in Ascension Parish, LA. The scope consists 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.
08/15 – 07/20	Houma-Thibodaux to I-10 Corridor Environmental Impact Statement (EIS), LADOTD, Southeastern LA. Preparation of an EIS for a new 35-mile controlled access highway providing north/south system linkage between the Houma-Thibodaux areas and I-10. Project Designer responsible for meeting materials, report preparation, and cost estimation.
11/13 – 08/19	US 425 Roundabout Design, Retainer Contract for Highway Safety, Sigma Consulting Group, Inc./LADOTD, Rayville, LA. Design of a new six-legged roundabout at the intersection of US 425, Grimshaw Street, and Christian Drive and relocation of an existing frontage road, including construction phasing, quantity calculations, cost estimates, and drainage design. Highway Engineer.

Firm employed by		 BUCHART HORN <small>CONSULTANTS ENGINEERS ARCHITECTS</small>	
Name	Thomas E. Allen, Jr., PE, PS	Years of relevant experience with this employer	.5
Title	Civil Engineer	Years of relevant experience with other employer(s)	33
Degree(s) / Years / Specialization		Bachelor of Science / 1990 / Civil Engineering	
Active registration number / state / expiration date		Professional Engineer: PE-13599 / MS / Exp. 12/2024 Professional Surveyor: PLS-02820 / MS / Exp 12/2024	
Year registered	1998	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities:		Roadway Design	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
	Mr. Allen is an experienced civil engineer and professional land surveyor with a rich history orchestrating and overseeing diverse projects for both public and private entities. From initial ideas and proposals to cost estimations, tendering processes, project oversight, construction layout, and change order administration, he is well-versed in the intricacies of integrated civil design.		
09/23 – Ongoing	Construction Engineering and Inspection for the Rehabilitation of Eleven Bridges over Sam Cooper Boulevard, City of Memphis, TN. Fisher Arnold is managing the construction engineering and inspection associated with the rehabilitation of eleven bridges over Sam Cooper Boulevard. As a subconsultant to Fisher Arnold, BH will provide review of shop drawings, respond to Requests for Information, and assist with inspections if needed. These services will be provided in accordance with the manual of Local Government Guidelines for the Management of Federal and State Funded Transportation Projects. Civil Engineer		
11/23 - Ongoing	Pavement Design, Surveying, and Support 2024 TDOT Resurfacing Program, HDR, Inc., Region 4, TN. BH will provide surveying and support services necessary to develop resurfacing plans assigned to HDR for TDOT's 2024 resurfacing program in Region 4. The work will include various railroads affected by the program. Project Manager		
09/23 - Ongoing	Multi-Modal Facilities Design, SR-206, SR-76, and SR-22, TDOT, Region 4, TN. BH is in the process of designing and preparing plans for Multi-Modal Facilities on three (3) projects. Sidewalks, pedestrian lighting, and shared roadway/bicycle facilities along SR-206 in Atoka, TN; sidewalks and shared roadway/bicycle facilities along SR-76 in McKenzie, TN; and sidewalks along SR-22 in Clarksburg, TN. Civil Engineer		
09/23 - Ongoing	SIA Tyson Blvd., Project Fisher, TDOT, Gibson County, TN. This project is the design of and preparation of Roadway Plans for the construction of a State Industrial Access (SIA) roadway along existing alignment of McKnight Road/Gibson Wells Road adjacent to the Industrial Development Board of Gibson County. This roadway will serve a new Federal Express Ground Facility known as "Project Fisher" in Humboldt, TN). As a part of the project, the existing Tyson Blvd. will be extended to McKnight Road and a new at-grade crossing designed at the WTNN Railroad. A segment of Gibson Wells Road will be realigned to form a 90° intersection with McKnight Road to improve sight distance and safety. The current intersection with SR 366 (US 79) will be modified to provide adequate turning radii for a WB-62 design vehicle. Civil Engineer		





09/23 - Ongoing	Winchester Perkins Right-of-Way Acquisition, City of Memphis, TN. BH is providing surveying, environmental (NEPA), and right-of-way (ROW) services for improvements to the Winchester-Perkins Interchange, including replacing an existing tight diamond interchange with a single-point urban interchange and widen approach roadways to a seven-lane arterial section. Civil Engineer
09/23 - Ongoing	I-40 @ SR69 Safety Improvements, TDOT, Decatur & Benton Counties, TN. This project is the design of and preparation of Roadway Plans for the construction of Safety Improvements to the Interstate 40 Interchange at State Route 69 (Exit 126) Interchange in Decatur and Benton Counties, TN. The Project Scope has yet to be finalized, but at a minimum this project will involve improvements to the exit & entrance ramps that will add adequate length for acceleration/deceleration at the exiting intersections. Other improvements such as ramp realignment, intersection improvements, signals, and lighting will be considered in the development of the project. For purposes of this proposal, it's assumed that ramp improvements on I-40 and right-turn lanes on SR-69 will in the scope of the project. The plans will be prepared by Buchart Horn (BH) for the Tennessee Department of Transportation (TDOT), Region 4 Office. This is one of the first projects under the Project Delivery Network (PDN) in Region 4. PDN is a new project management process being adopted by TDOT for use on all future projects. As a part of an On-Call Design contract, Buchart Horn will provide professional services for the design of and plans preparation for the project. The work will be conducted under the supervision of the Tennessee Department of Transportation (TDOT), Region 4 Office. The project's schedule has not yet been finalized, but a construction bid date will be no later than June 2026. Civil Engineer
19/23 - Ongoing	SIA Pottery Direct, TDOT, Carroll County, TN. This State Industrial Access (SIA) Road is proposed to serve a new manufacturing Facility for Pottery Direct International located in the McKenzie Industrial Park in Carroll County, Tennessee. As a part of an On-Call Design contract with TDOT, Buchart Horn provided professional services for the design of and plans preparation for the 0.6 mile roadway project. The proposed road will improve access to State Route 22 for the tenants of the park. The project is on new alignment across the park and provides two 12-foot lanes with paved shoulders that follow current design standards. The design of the project is following a typical TDOT path with the preparation, submission, and review of the plans at the preliminary, ROW, and construction phases. Through TDOT, BH is coordinating with the local governmental and industrial stakeholders to develop a design that provides a finished roadway that will serve the park over the next few years. Project Manager





Firm employed by		 BUCHART HORN CORPORATE ENGINEERS	
Name	Hugo A. Leiva, EI, Civil EIT	Years of relevant experience with this employer	3
Title	Civil Engineer-in-Training	Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization		Bachelor of Science / 2018 / Civil Engineering	
Active registration number / state / expiration date		EIT #34035 / Louisiana / Exp. 09/2025	
Year registered	2019	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Roadway Design	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
	Mr. Leiva is a Civil Engineer-in-Training who joined BH’s Baton Rouge team in 2020. During his time with BH he has gained experience by supporting multiple LADOTD On-Call Contracts, including two Electrical Engineering retainers and a Safety Studies retainer. Mr. Leiva is also supporting the Move Ascension Roadway Design Services retainer along with multiple other Louisiana projects and studies to acclimate himself to LA roadway specifications and designs.		
09/20 – Ongoing	Harrison Avenue Improvements Design, St. Tammany Parish, Covington, LA. Conducted a feasibility study and subsequent design and construction management of recommended improvements. Our staff evaluated two proposed alternates for the reconstruction of Harrison Avenue and is now providing design services for the selected concept – a two-lane roadway with raised median, sidewalks, and subsurface drainage.		
12/20 - Ongoing	West Bank Group B Street Improvements, City of New Orleans, LA. BH is developing preliminary and final design plans for a designated list of streets to be enhanced in the West Bank regional area of New Orleans. The primary enhancements will include mill and overlay with full depth patching; other incidental road repairs will be required in certain sections of the project area. Following design, construction administration and resident inspection services will be provided during construction of the project.		
01/21 – Ongoing	LA 1/LA 415 Connector Study, LADOTD, Port Allen, LA. BH is performing a preliminary study to evaluate roadway lighting for a new roadway connecting I-10 to LA 1 in West Baton Rouge Parish. The study will also evaluate navigational lighting for the new bridge over the intercoastal waterway. Following the preliminary study, final design will be performed by supplemental agreement.		
06/21 – 12/21	Safety Studies for US 61 from Cardinal Drive to Bert Street, LADOTD, LaPlace, LA. BH performed a study to identify safety issues along approximately three miles of Airline Highway (US 61) in Laplace, LA and evaluate reasonable alternatives to address the issue(s). The approximate intersection termini are Bert Street and Cardinal Drive.		
10/20 – 11/20	New Roundabout, Parish Road 929 at Parker Road, Ascension Parish, Prairieville, LA. Design of a single-lane asphalt roundabout at the intersection of Parish Road 929 and Parker Road to replace the existing stop-controlled intersection. Services include topographic survey, preliminary and final roundabout plans and specifications, right of way maps, subsurface utility engineering (SUE), and construction engineering and inspection.		
10/20 – 09/21	Move Ascension Roadway Design Services, Ascension Parish, LA. On-call contract to provide professional engineering design and related services for the Move Ascension Parish Program initiative. LADOTD standards, references, manuals, quality control, and format requirements are required for all projects. The general scope for task orders may include any of		

	the following: topographic survey, preliminary roadway plans, preliminary bridge plans, final plans, geotechnical investigation, subsurface utility engineering (SUE), right-of-way maps, construction engineering and inspection (CE&I), bidding, value engineering studies, permit sketches, and Stage 0 feasibility studies.
08/21 – 09/21	West Metairie Avenue Restoration, Infinity Engineering Consultants/Jefferson Parish, LA. Provided condition assessment, design, and construction documentation for the replacement of failed concrete panels, drainage structure repairs, and canal banks slope stabilization.

Firm employed by		 BUCHART HORN CONSULTANTS ENGINEERS ARCHITECTS	
Name	David M. Britner	Years of relevant experience with this employer	14
Title	CADD Technician	Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization		Bossier Parish Community College - Coursework	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities.		Roadway Design	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).		
	Mr. Britner has over 29 years of experience in civil design as a CADD Technician. His civil experience includes highway plans (LADOTD), city streets, drainage, geometric details, signing/stripping, quantities for earthwork, summary tables, and quantities estimates. He has also prepared clearing/grubbing plans, sanitary sewer designs, waste water treatment plants, sewer pumping stations, and drainage basins. Mr. Britner also has three years of experience as a GIS Analyst. During that time, he was responsible for the overall supervision and coordination of data input and output. Mr. Britner has extensive experience with ESRI software, Arc/Info 8.1, Arc/View 8.1.2, and ArcMAP 10.2. He has also been responsible for GPS data, inventory, map-making, data input, database records, and overall quality assurance for projects. Mr. Britner has been performing and preparing design plans for the lighting projects for the LADOTD and ensuring the plans are uploaded into the LADOTD ProjectWise web site.		
08/10 -03/12	Houma-Thibodaux to I-10 Corridor EIS, LADOTD, Southeastern LA. Preparation of an EIS for a new 35-mile controlled access highway providing north/south system linkage between the Houma-Thibodaux areas and I-10. CADD Coordinator responsible for providing GIS services.		
08/13 – 09/13	Highland-Burbank Connector, City of Baton Rouge/Parish of East Baton Rouge, LA. Detailed planning study and design of two alternatives for a new three-lane highway connecting Highland Road and Burbank Drive in Baton Rouge. Project Designer		
06/13 - 08/13	US 84 Improvements, LADOTD, Winnfield, LA. Performed environmental assessments on the west and east side of Winnfield, including line and grade studies for several alternatives, environmental impacts, and traffic and bridge studies. CADD Coordinator responsible for analysis of traffic via Vissim.		
12/08 – 10/09	South Jefferson Davis Parkway Rehabilitation, City of New Orleans Department of Public Works, New Orleans, LA. Designed the rehabilitation and reconstruction of the South Jefferson Davis Parkway between Martin Luther King, Jr. Boulevard and Howard Avenue, including road resurfacing; curb drainage replacement; adjustments at driveways, intersecting streets, and project termini; and ramps for handicap accessibility at intersections and medians. Project Designer responsible for creating plan/profiles, quantities, striping plan, and final plans.		
05/27 – 11/08	Government Street and South Foster Drive Intersection Improvements, City of Baton Rouge and Parish of East Baton Rouge, LA. Designed the widening of the intersection of Government Street and Foster Drive, consisting of undivided four-lane two-way arterials in one of the busiest areas of the City, as one of the Green Light Program projects. Project Designer.		



09/16 – 10/17	<p>I-10 Off-Ramp and LA 182 J-Turn Improvements Lighting Evaluations, Design, and Construction Administration, LADOTD, Baton Rouge, LA. BH provided lighting evaluations in conjunction with roadway improvements at the I-10 off-ramps and LA 182 Jturns. BH performed a photometric analysis providing LADOTD with a plan layout illustrating proper illumination, luminary, and lamp specifications; existing lighting were evaluated to determine if supplemental lighting would satisfy project requirement or if a new system was required. Lighting layout, electrical design plans, electrical notes and details were provided. BH also provided construction administration services including review of contractor electrical submittals, attendance at periodic meetings, and providing electrical as built plans, an Operations and Maintenance manual, and an Arc Flash report. Project Designer</p>
09/16 – 10/17	<p>I-110 at Terrace Avenue Ramp Modification Design and Construction Services, LADOTD, Baton Rouge, LA. BH designed street lighting associated with the construction of a new off-ramp from I-110 in Baton Rouge intended to minimize traffic congestion from the Mississippi River Bridge eastbound to I-10 at the Washington Street Exit. BH is now providing construction administration services for the portion of the project designed by BH. Services to be performed by BH include review contractor electrical submittals, attending periodic meetings, providing electrical as built plans and O&M manual, and providing an Arc-flash report. DOTD will provide inspection services for the ramp reconstruction and improvements. Project Designer</p>
10/16 – 01/18	<p>I-110 Lighting Design from North Street to Plank Road, LADOTD, Baton Rouge, LA. BH is providing surveying, roadway illumination analysis and report, electrical engineering design, design plan preparation, calculations, construction cost estimates, specifications and special provisions for a complete lighting system along I-110 from North Street to Plank Road. The proposed lighting design and analysis includes all interchanges and interface with remaining existing lighting beyond the north and south ends of the project. Project Designer</p>
05/14 – 10/14	<p>Interchange Lighting Improvements Design and Construction Management Services, I-55 at LA 22 Interchange, LADOTD, Ponchatoula, LA. BH designed a complete lighting system over the entire length of I-55 at the LA 22 interchange. Lighting includes high-mast and pole-mounted lights. Lighting is LED and will have smart intelligence to monitor lights. Services included plans, specifications and special provisions, construction estimates, illumination analysis, and engineering calculations. Project Designer</p>





Firm employed by		 BUCHART HORN <small>CONSULTING ENGINEERS</small>	
Name	Colton J. Baker, EI, Civil EIT	Years of relevant experience with this employer	1
Title	Civil Engineer-in-Training	Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization		Bachelor of Civil Engineering / 2016 / Structural Engineering	
Active registration number / state / expiration date		Engineering Intern #33551 / TN / Exp. N/A	
Year registered	2017	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities.		Roadway Design	
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
	As a Civil EIT in BH's Transportation Group, Mr. Baker provides design and construction phase support for a variety of roadway, traffic and structure related projects. He is involved in all phases of design development including project scoping, preliminary engineering and final design, bid phase support, and construction phase services.		
11/22 – Ongoing	Construction Engineering and Inspection for the Rehabilitation of Eleven Bridges over Sam Cooper Boulevard, City of Memphis, TN. Fisher Arnold is managing the construction engineering and inspection associated with the rehabilitation of eleven bridges over Sam Cooper Boulevard. As a subconsultant to Fisher Arnold, BH will provide review of shop drawings, respond to Requests for Information, and assist with inspections if needed. These services will be provided in accordance with the manual of Local Government Guidelines for the Management of Federal and State Funded Transportation Projects. Engineer-in-Training		
11/22 – Ongoing	TDOT Local Roads Safety Initiative, Region 4, West TN. BH was selected by TDOT's Strategic Transportation Investments Division (STID) to provide engineering services within their Local Roads Safety Initiative (LRSI) program for Region 4 (West Tennessee). Work Orders under the LRSI program are issued to identify and provide improvements for deficient safety conditions present along various local routes western Tennessee. The proposed roadway and/or intersection improvements will be determined after developing traffic and crash data summaries, conducting field reviews, obtaining and documenting stakeholders' input, and analyzing additional information. Engineer-in-Training		
12/22 - Ongoing	SIA Pottery Direct, TDOT, Carroll County, TN. This State Industrial Access (SIA) Road is proposed to serve a new manufacturing Facility for Pottery Direct International located in the McKenzie Industrial Park in Carroll County, Tennessee. As a part of an On-Call Design contract with TDOT, Buchart Horn provided professional services for the design of and plans preparation for the 0.6 mile roadway project. The proposed road will improve access to State Route 22 for the tenants of the park. The project is on new alignment across the park and provides two 12-foot lanes with paved shoulders that follow current design standards. The design of the project is following a typical TDOT path with the preparation, submission, and review of the plans at the preliminary, ROW, and construction phases. Through TDOT, BH is coordinating with the local governmental and industrial stakeholders to develop a design that provides a finished roadway that will serve the park over the next few years. Engineer-in-Training		
11/22 - Ongoing	SIA SR 431 at Industrial Park Dr, TDOT, Weakly County, TN. This project involves the design of and preparation of Roadway Plans for a State Industrial Access (SIA) project in Weakley County, TN. The proposed improvements include the		

	<p>addition of turn lanes and acceleration lanes on SR 431 (Main Street) at Industrial Park Drive in Martin, TN. The project’s timeline will be considered fast-track for the design and plans development. As part of an On-Call design contract, Buchart Horn will provide professional services for the design and plans preparation for the project. The work will be conducted under the supervision of the Tennessee Department of Transportation (TDOT), Region 4 Office. The design of the project is following scope of work for smaller, fast-track projects. The formal submission of Preliminary plans will be grouped together with the usual ROW plans preparation and review phase. Plans are scheduled to be complete in late 2023 with construction start for the project to be determined. Engineer-in-Training</p>
<p>11/22 - Ongoing</p>	<p>I-40 @ SR69 Safety Improvements, TDOT, Decatur & Benton Counties, TN. This project is the design of and preparation of Roadway Plans for the construction of Safety Improvements to the Interstate 40 Interchange at State Route 69 (Exit 126) Interchange in Decatur and Benton Counties, TN. The Project Scope has yet to be finalized, but at a minimum this project will involve improvements to the exit & entrance ramps that will add adequate length for acceleration/deceleration at the exiting intersections. Other improvements such as ramp realignment, intersection improvements, signals, and lighting will be considered in the development of the project. For purposes of this proposal, it’s assumed that ramp improvements on I-40 and right-turn lanes on SR-69 will in the scope of the project. The plans will be prepared by Buchart Horn (BH) for the Tennessee Department of Transportation (TDOT), Region 4 Office. This is one of the first projects under the Project Delivery Network (PDN) in Region 4. PDN is a new project management process being adopted by TDOT for use on all future projects. As a part of an On-Call Design contract, Buchart Horn will provide professional services for the design of and plans preparation for the project. The work will be conducted under the supervision of the Tennessee Department of Transportation (TDOT), Region 4 Office. The project’s schedule has not yet been finalized, but a construction bid date will be no later than June 2026. Engineer-in-Training</p>





Firm employed by		 BUCHART HORN CORPORATION EST. 1948	
Name	Danuta A. Zabielski	Years of relevant experience with this employer	26
Title	Senior Civil Designer	Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization		Bachelor of Science / 1993 / Civil Engineering	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities.		Roadway Design	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
	Ms. Zabielski has 32 years of diverse experience in the field of land development. She is responsible for all phases of site design, from production of preliminary plans to construction documents. Her experience includes grading, site layout, landscaping, stormwater management, erosion and sediment control, and road design (horizontal and vertical alignment).		
04/19 – 05/21	US 190 Roadway and Bridge Improvements, LA 437 to Business US 190, LADOTD, St. Tammany Parish, LA. Stage 3 design for preliminary and final plans for road and bridge improvements. Geotechnical engineering and a traffic management plan was included via supplemental agreement. BH was responsible for design development in preliminary and final design plan stages. Services were being provided in support of prime consultant T. Baker Smith.		
11/19 – 08/22	Marlyville Fontainebleau Group E Street Repairs, City of New Orleans, LA. BH provided professional engineering design and construction administration services for FEMA-eligible street repairs on assigned streets in the Marlyville Fontainebleau neighborhood. Services included development of preliminary and final roadway design plans, drainage analysis and report, project specifications, project cost estimates, checklists, design reports, and project schedule in accordance with City of New Orleans and FEMA guidelines, along with other tasks as assigned.		
04/07 – 10/09	LA 59/I-12 Interchange Improvements, St. Tammany Parish, Mandeville, LA. BH designed major operational improvements to the I-12 interchange with LA 59, a major north/south urban arterial serving St. Tammany Parish. The existing off-ramp left-turn lanes onto LA 59 were single lane. During peak hours, traffic backed up onto the I-12 off-ramps. In addition, a major utility maintenance depot required turning movements sufficient for tractor trailers in excess of 50 feet. The design widened the movements on the off-ramps to a double left turn, the westbound on-ramp to a double lane operation, and provided a double left turn westbound from LA 59 northbound. All of these facilities were designed within the existing right-of-way. The design met the LADOTD design guidelines and was permitted by LADOTD. Services provided included: Preliminary and final plans, Geotechnical services, Traffic analysis, Signal design, and Environmental services.		
03/03 – 11/09	LA 15 Widening from Clayton to Greenville Road, LADOTD, Concordia Parish and Catahoula Parish, LA. Buchart Horn provided preliminary design for the widening of an existing two-lane highway to four lanes along seven miles of LA 15. The project consisted of both an urban section with curb and gutter and subsurface drainage and a rural four-lane with depressed median and open ditches. Also involved in this project was preliminary design of two bridge structures for a new bridge on new southbound lanes and modification of a vertical lift span to a fixed structure along the existing alignment. Buchart Horn provided a study exploring possibilities for enhancing the constructability and cost effectiveness of the		



	<p>original design concepts for both bridges. The results of the study provided the LADOTD with several options that would result in cost savings and improved maintenance and performance. The selected option for the southbound bridge resulted in a savings of \$210,000; the modification of the existing bridge was subsequently deleted from the project. Two other state highways, US 65 and LA 566, were realigned at their new intersections with LA 15. Several design changes were requested by the LADOTD during the life of the project; some of these included changing from metric units of measure to standard English units, revising the drainage from sub-surface to roadside ditches, changing typical sections to SuperPave asphalt, and adding typical sections for the concrete alternative. A major change suggested by Buchart Horn was separation of the project into a roadway project and a bridge project, which resulted from recommendations by the geotechnical consultant requiring that an additional span be added to the proposed bridge. This change came up during the 60% plan preparation stage and threatened to delay bids on the entire project. Buchart Horn's suggestion was to let the contract for the roadway work first and then let the bridge contract when the redesign was completed. As a result, LTM met the construction schedule required by the LADOTD.</p>
<p>11/19 – 08/22</p>	<p>Marlyville Fontainebleau Group D Street Repairs, City of New Orleans, LA. BH provided professional engineering design and construction administration services for FEMA-eligible street repairs on assigned streets in the Gert Town and Marlyville Fontainebleau neighborhoods. Services included development of preliminary and final roadway design plans, drainage analysis and report, project specifications, project cost estimates, checklists, design reports, and project schedule in accordance with City of New Orleans and FEMA guidelines, along with other tasks as assigned.</p>
<p>10/11 - Ongoing</p>	<p>Master Contract for Engineering Services, ArDOT, Statewide AR. Multiyear, on-call contract to assist with various roadway projects statewide, including interstate rehabilitation and capacity (widening) projects. Services under this contract, which are assigned on a task order basis, may include environmental NEPA studies, surveying, roadway design and plans, bridge design and plans, geotechnical/testing, ROW plans, etc. Senior Designer responsible for developing roadway plans, including improvement to existing drainage, quantities, and cost estimate</p>

Firm employed by: WSP USA Inc. 				
Name	Max Nassar		Years of relevant experience with this employer	4
Title	Senior Vice President		Years of relevant experience with other employer(s)	42
Degree(s) / Years / Specialization		BA / 1976 / Psychology		
Active registration number / state / expiration date		N/A		
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities		WSP Principal-in-Charge		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
	Max is a native of Jefferson Parish, Louisiana and has spent 30 years in executive level positions in Fortune 500 Companies in both the manufacturing/industrial sector and architectural engineering consulting services sector. Over the past 20 years, he has overseen a multiplicity of infrastructure projects in the southeast United States, and Central America, with a value in the billions. Many of these projects have been in southeast Louisiana and have been performed for a variety of public and private clients including Louisiana Department of Transportation and Development, The Mississippi Department of Transportation, The Louisiana Department of Natural Resources, The New Orleans Regional Planning Commission, The New Orleans Regional Transit Authority, and others. Max’s international experience includes port and harbor consulting at Puerto Cortes in Honduras, and construction oversight of the Port Connector Roadway in Honduras and Guatemala. He has successfully led negotiations and mediations for a variety of private clients.			
04/20 – Ongoing	LADOTD, Contract for Innovative Procurement and Alternative Delivery Support Services, LA: Project Principal, the project includes provision of engineering, financial, management and administrative advice and services to assist with Innovative Project Delivery Methods in connection with administering the procurement process of Design Build, Construction Management at Risk, and/or Public Private Partnerships (P3) projects. The current effort includes leading the procurement of the Calcasieu Bridge in Lake Charles, Louisiana. To be included in the effort is a Level 2 Toll Study. The current Calcasieu Bridge is one of the most critical projects in Louisiana’s Transportation System and has been identified as the most detrimental to economic development.			
10/19 – Ongoing	LADOTD Level 1 Toll Feasibility Study for a new Mississippi River Bridge between LA 1 and LA 30 (Project I.D. No. Number 101, a Priority B Megaproject in the Louisiana Statewide Transportation Plan): Project Principal, the project includes enhancing the Capital Region Planning Commission (CRPC) Travel Demand Model (TDM to include a toll diversion model in order to be able to use the model to evaluate demand for the 3rd Crossing alternatives under different tolling scenarios. Additionally, WSP will generate estimates of annualized gross toll revenue based on the demand as well as prepare a conceptual plan to implement tolling including public outreach, economic impacts, toll infrastructures, institutional requirements, revenue risk, etc.			
05/19 – Ongoing	Board of Commissioners, Port of New Orleans, New Orleans, LA: Seabrook Bridge Span Replacement Project, New Orleans, LA: Project Principal for this project which included structural design, mechanical design, coordination of the preparation of plans and specifications, construction administration and resident inspection, and quality assurance and			



	the assurance of timely delivery to the client. The Seabrook Bridge is a Strauss-Trunnion Bascule Bridge over the Inner Harbor Canal in New Orleans.
05/19 – Ongoing	Board of Commissioners, Port of New Orleans, New Orleans, LA: Almonaster Bridge Span Replacement Project, New Orleans, LA: Project Principal for this project which included structural design, mechanical design, coordination of the preparation of plans and specifications, construction administration and resident inspection, and quality assurance and the assurance of timely delivery to the client. The Seabrook Bridge is a Strauss-Trunnion Bascule Bridge over the Inner Harbor Canal in New Orleans.
06/19 – 05/20	NCDOT Design-Build Bridge Replacement, Structure #1: I-485 over Westinghouse Blvd., Mecklenburg County, NC: Principal in Charge for local bridge staff designing this bridge replacement and widening. Staff assignments include modeling, analysis, and design of the prestressed bridge along with preparing bridge final design plans, as well as quality control of other prepared plans.
06/17 - Ongoing	LADOTD, IDIQ Contract for Electrical and Mechanical Engineering Services: Project Principal for this Task Order based engineering services contract which supports efforts on mechanical and electrical services related to roadways, pump stations and other mechanical and electrical needs. <ul style="list-style-type: none"> ✓ Task Order 1: State Project No. H.010439: Boyd Street & 21ST Street Pump Station Improvements ✓ Task Order 2: State Project No. H.010439.5: Boyd Street & 21St St Pumping Station Improvements I-110 ✓ Task Order 3: State Project No. H.010565 Acadian St. Pumping Station Improvements ✓ Task Order 4: State Project No. H.010565.5 Acadian Street Pumping Station ✓ Task Order 5: State Project No. H.972249.1 Generator Site Investigation and Load Study for Airline Drive Pump Station and LADOTD Maintenance Facility and Construction Docs for Airline Drive Pump Station ✓ Task Order 6: State Project No. H.010253: Bluebonnet Blvd Pump Station Improvements LA 1248 ✓ Task Order 7: State Project No. H.010251: Chippewa St Pumping Station Improvements US61/190
02/21 - Ongoing	Pontchartrain Levee District (PLD), St. Charles Parish, LA: Project Principal for assessment of the Cross Bayou Pumping Station, a flood control pumping station with influent from the canal along the Airline Highway and effluent to Lake Pontchartrain via the Cross Bayou canal. Equipped with five main diesel and one electrical low flow submersible pumps, the pumping station can deliver a total capacity of over a half million gallons per minute; it is a key pumping facility in the St. Charles Parish flood control infrastructure. The assessment involved pump and pump drives, the on-site fuel storage and delivery system, various mechanical and electrical systems and included an opinion of probable construction costs to rehabilitate the station to a state of good repair.

Firm employed by: WSP USA Inc. 				
Name	Mark Shlyakov, PE		Years of relevant experience with this employer	2.5
Title	Complex Structural Engineer Load Rater		Years of relevant experience with other employer(s)	44
Degree(s) / Years / Specialization		N/A		
Active registration number / state / expiration date		PE.38927 / LA / Exp. 09/2024 (also licensed in FL; MA; NJ; PA; TX; GA; WV; MD)		
Year registered	2014	Discipline	Structural Engineering	
Contract role(s) / brief description of responsibilities		QA/QC		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
	Mark Shlyakov has more than 40 years of experience in the design, inspection, and rehabilitation of steel and concrete bridges including horizontally curved composite steel structures, prestressed concrete, post-tensioned concrete segmental, cable-stayed, arch bridges, deep foundations, long-span trusses, retaining walls, and culverts. He previously served as a project manager and senior structural engineer on numerous bridge projects and has performed seismic evaluation, design and retrofit of many bridges throughout Pennsylvania, Tennessee, Florida, and other states. Mark has extensive experience in the analysis and plans preparation of major bridge structures. Mr. Shlyakov meets MPR No. 4.			
01/13 – 11/15	LADOTD Jimmie Davis Bridge over Red River, District 4, Bossier City, Louisiana: Senior structural engineer for this 16-span, 2821-foot-long bridge that includes three central thru-trusses (354'+403'+354') and multiple 200' cantilever plate girders spans. Developed conceptual and final structural steel rehabilitation, truss jacking schemes, and conversion of expansion bearings multiple roller system with hybrid disk bearings. Designed a special strand-jacking system and structural analysis of the trusses and approach spans. Conducted 3D staged modeling with CSiBridge software.			
07/18 – 12/22	SCDOT, Bridge Inspection and Load Rating, South Carolina: Senior Load Rater on this contract, which consists of bridge inspection and determination of the load capacity ratings utilizing BrR and CSI bridge for 2,558 structures including truss, segmental, curved steel girder, movable and significantly retrofitted structures. WSP reviewed the plans, inspection reports, previous load ratings and all other available relevant bridge documents. The load ratings were completed utilizing the information provided by SCDOT and supplemented with information from our field inspections. All load ratings were completed with BrR or CSI Bridge. WSP also utilized drones as an inspection tool to help identify specific areas of bridges where a “hands-on” inspection is required. This resulted in reduced time required for traffic control and access equipment, providing a significant cost savings to SCDOT. In addition, Mark assisted with the 160 load tests involving instrumenting the bridges with strain gauges and driving known loads across the bridge, to assist SCDOT with advanced load posting avoidance measures. The results of the test were utilized to create corrected effective structural models to increase and remove load postings from bridges across the state. These results were extrapolated out, to not only remove postings on the bridges tested, but also on similar bridges in SCDOT’s inventory. WSP efforts saved the State tens of millions of dollars.			
04/16 – 08/16	CFX (FDOT) Ramp G Bridge in SR 417 Boggy Creek Interchange, Load Rating (Bridge 750804), Central Florida Expressway, Orlando, Florida: Engineer-of-Record for structural load rating of four–span, curved, twin steel box girders spanning 201.75ft-246.92ft-201.75ft-246.92ft.			



05/17 – 03/19	City of Oxford, Alabama, Leon Smith Parkway Bridge Widening over Choccolocco Creek, in Calhoun County: Engineer-of-Record for widening design of a four @ 100-foot span bridge and a five @ 100-foot span bridge utilizing prestressed concrete bulb-tees as sub to the prime design firm, GMC, Inc. Work included checking designs and plans sheets and directly supervising the design. Project was reviewed by ALDOT on behalf of the Town of Oxford and partly state funded. (Construction 2021).
05/16 – 07/18	City of Raleigh, NC, B-5556 Replacement of Bridge No. 490 on Lake Dam Road (SR 1427), City of Raleigh Public Works, North Carolina: Project Manager for bridge replacement project with Categorical Exclusion (CE), surveys, hydraulic (FEMA) modeling, utility design/coordination and permitting. Engineer-of Record for design of the 100 foot, two-span precast cored slab bridge replacement. Work included checking the plans and calculations, supervising the design and providing engineering support services. (Construction 2018)
02/09 – 7/14	Florida DOT - District 4, I-595 Express Lanes (Design-Build) between I-75 and I-95, Broward County, Florida: Bridge Design Task Leader and Engineer of Record. Mark was responsible for the final structure designs for 20 bridges in the design-build phase of a P3 toll project. Designs included 15 highway bridges and five bicycle and pedestrian bridges. Roles included preparing preliminary designs, directly supervising, and checking final plans and calculations, writing special provisions, preparing estimates and providing bridge ratings in BrR and construction phase engineering support services. Bridges included curved girders with integral caps.
02/13 – 12/13	NCDOT Rail Division, Project P-5201, Morrisville Parkway underpass of Norfolk Southern, Structure Design, Morrisville, Wake County, North Carolina: Structures task manager and engineer-of-record for a new four-span, curved, ballast deck railroad bridge over Morrisville Parkway. Structure featured drilled shaft piers, steel pile abutment foundations, temporary tie-back soldier pile shoring wall and steel plate girders and rolled beams. Roles included preliminary design, checking final calculations and plans, directly supervising the design, writing special provisions and preparing estimates. (Design 2013; Construction 2016).
04/09 – 07/10	Tennessee Steel Truss Bridge Ratings: Engineer-of-Record for member rating analysis of three steel truss bridges in Tennessee: Old SR25/Cumberland River with 316-foot main span through truss and deck truss approaches; SR375/German Creek with 282-foot main span through-truss; and SR 67/Watauga River with 492 foot main span deck truss. Role included supervising and checking the manual calculations and VIRTIS/BrR analysis.

Firm employed by: WSP USA Inc. 				
Name	Lloyd (Mark) Pearson, PE		Years of relevant experience with this employer	4
Title	QA/QC Engineer		Years of relevant experience with other employer(s)	44
Degree(s) / Years / Specialization		ME / 1979 / Structural Engineering BS / 1977 / Structural Engineering		
Active registration number / state / expiration date		PE.39629 / LA / Exp. 09/2025 (also licensed in AL; MS; FL; GA; NC; SC; VA)		
Year registered	2015	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		QA/QC		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
	Mark is a civil engineer with more than 40 years of experience in project management including multi-discipline highway railway projects and bridges. He is skilled in structural services encompassing the design, inspection and rating of highway and railway bridges and design of pedestrian bridges, box culverts, cut-and-cover tunnels, retaining walls, railroad shoring, and a variety of infrastructure facilities. His experience includes 20 years of design-build and more than 10 years of 3-P projects and proposals. He has served as program and client-services manager for various DOT and railroad clients. Mark is currently task manager for a post-tensioned spliced girder bridge in Mississippi replacing steel through-trusses. Recent tasks have included quality control reviews of bridge load ratings in SC and TX (using AASHTOware BrR) and bridge repair plans in NC. Mr. Pearson meets MPR No. 5.			
07/18 – 12/22	SCDOT, Bridge Inspection and Load Rating, South Carolina: Senior Load Rater/QC Manager on this contract, which consisted of bridge inspection and determination of the load capacity ratings utilizing BrR and CSI bridge for 2,558 structures including truss, segmental, curved steel girder, movable and significantly retrofitted structures. WSP reviewed the plans, inspection reports, previous load ratings and all other available relevant bridge documents. The load ratings were completed utilizing the information provided by SCDOT and supplemented with information from our field inspections. All load ratings were completed with BrR or CSI Bridge. WSP also utilized drones as an inspection tool to help identify specific areas of bridges where a “hands-on” inspection is required. This resulted in reduced time required for traffic control and access equipment, providing a significant cost savings to SCDOT. In addition, WSP performed and Mark QC'd 160 load tests involving instrumenting the bridges with strain gauges and driving known loads across the bridge, to assist SCDOT with advanced load posting avoidance measures. The results of the test were utilized to create corrected effective structural models to increase and remove load postings from bridges across the state. These results were extrapolated out, to not only remove postings on the bridges tested, but also on similar bridges in SCDOT's inventory. WSP efforts saved the State tens of millions of dollars.			
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02/09 – 07/14	Florida DOT - District 4, I-595 Express Lanes (Design-Build) between I-75 and I-95, Broward County, Florida: Bridge Design Task Leader and Engineer of Record. Mark was responsible for the final structure designs for 20 bridges in the design-build phase of a P3 toll project. Designs included 15 highway bridges and five bicycle and pedestrian bridges. Roles included preparing preliminary designs, directly supervising and checking final plans and calculations, writing special provisions, preparing estimates and providing bridge ratings in BrR and construction phase engineering support services. Bridges included curved girders with integral caps.
02/13 – 12/13	NCDOT Rail Division, Project P-5201, Morrisville Parkway underpass of Norfolk Southern, Structure Design, Morrisville, Wake County, North Carolina: Structures task manager and engineer-of-record for a new four-span, curved, ballast deck railroad bridge over Morrisville Parkway. Structure featured drilled shaft piers, steel pile abutment foundations, temporary tie-back soldier pile shoring wall and steel plate girders and rolled beams. Roles included preliminary design, checking final calculations and plans, directly supervising the design, writing special provisions and preparing estimates. (Design 2013; Construction 2016).
04/09 – 07/10	Tennessee Steel Truss Bridge Ratings: Engineer-of-Record for member rating analysis of three steel truss bridges in Tennessee: Old SR25/Cumberland River with 316-foot main span through truss and deck truss approaches; SR375/German Creek with 282 feet main span through-truss; and SR 67/Watauga River with 492 feet main span deck truss. Role included supervising and checking the manual calculations and VIRTIS/BrR analysis.

Firm employed by: WSP USA Inc. 				
Name	Hatem Seliem, PhD, PE, PMP		Years of relevant experience with this employer	1
Title	Vice President, Structural/Bridge Engineer		Years of relevant experience with other employer(s)	19
Degree(s) / Years / Specialization		PhD / 2007 / Civil Engineering (Structural) MS / 2002 / Structural Engineering BS / 2000 / Civil Engineering		
Active registration number / state / expiration date		PE.39759 / LA / Exp. 9/2025 (also licensed in FL; MS; TX; GA; SC; NC; VA; MD)		
Year registered	2015	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Bridge Investigation/Evaluation, Bridge Design		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
	Hatem has 20 years of experience in structural engineering with special emphasis on design and behavior of reinforced and prestressed concrete structures and bridges. He served as the lead design engineer on several large-scale projects. Further, he is a Certified Project Management Professional (PMP) [®] and served as project manager on large-scale projects. He was the lead designer of reinforced concrete and prestressed concrete bridges and structures varying from simple slab spans to box concrete bridges, including multidiscipline coordination. Further, has strong experience for retrofitting structures and bridges using Fiber Reinforced Polymers (FRP) materials. He has in-depth knowledge of national and international design codes including AASHTO, ACI, AISC, PCI, IBC, Eurocode, ECP, and SBC. Hatem has been working on Louisiana projects for the past 10 years including several load rating, evaluation, and rehabilitation of bridge structures encompassing simple slab span to complex bridges. He is a certified Traffic Control Technician (TCT) and Traffic Control Supervisor (TCS). Mr. Seliem meets MPR No. 4.			
10/19 – 09/22	LADOTD, MacArthur Interchange Completion, Phase II, Louisiana: Bridge Engineer of Record responsible for the structural design of the superstructure and substructure, deck drainage design, and construction cost estimate. Further Hatem was the Project Manager to coordinate with subconsultants and LADOTD Project Manager. The project constitutes Providing two new, on-ramp and off-ramp connections between the eastbound of the elevated West Bank Expressway (US 90-Z) and Frontage Road, demolish the existing off-ramp, and widening of the US 90-Z bridge structure to accommodate the new ramps.			
09/20 – 06/21	LADOTD, Load Rating of 396 Bridges, Louisiana: Team leader responsible for the load rating analysis and critical review of Finite Element models and structural analysis. This project involved the load rating of 396 existing off-system bridge structures by the Load and Resistance Factor Rating method (LRFR). Bridge types included prestressed concrete girder bridges, steel girder bridges, precast and CIP slab bridges, concrete culverts, swing bridges, and timber bridges. Three-dimensional finite element modeling is used as necessary for the complex bridges.			
03/19 – 09/19	LADOTD, Evaluation and Load Rating of 27 Complex Off-System Bridges, Louisiana: Team leader responsible for the load rating analysis and critical review of Finite Element models and structural analysis. Included evaluation and load rating of 27 complex off-system bridges. The bridge types included, steel I-beam, plate girder swing spans, plate girder continuous spans, plate girder bascule spans, low truss swing spans, plate girder swing spans and steel box girder.			



02/20 – 11/20	LADOTD, Evaluation of Bridge Deficiencies-Concrete Piles Repair, Louisiana: Led the research team, developed the final report, developed repair plans. Deteriorated concrete piles exhibit different signs of distress, depending on exposure environments, stress level, and construction quality. The scope of this work was to research and identify effective repair systems and/or methods to be used for routine and typical maintenance, of RC and PPC piles for above water and underwater applications.
05/19 – 12/19	LADOTD, Non-Destructive Evaluation and Load Testing of Seven Posted Bridges, Louisiana: Reviewed and validated finite element analysis results. Provided approval of instrumentation planning, review/validation of diagnostic load testing results, and review of final reports and commencement of results. The scope of work was to evaluate seven bridges, five of which are movable bridges, that are posted for a load lesser than the Legal Loads and/or Special Hauling Vehicles. The evaluation was carried out utilizing load rating analysis and load testing coupled with detailed 3-D Finite Element Analysis with the aim of removing current load posting.
06/19 – 03/20	LADOTD, I-20 over Lakeshore Drive and KCS RR, Caddo Parish, Louisiana: Provided review of existing documents including as-built plans, load rating reports, and inspection; QC/QA review of the structural analysis and design of rehabilitation; and Construction cost estimate. Provided Stage 0 Design (Feasibility Study) for four bridge structures of I-20 crossing over Lakeshore Drive and KCS Railroad in Shreveport, LA. Design of rehabilitation to improve the bridges conditions, service life, and load rating was carried out. Different rehabilitation alternates were designed and detailed.
03/17 – 09/19	LADOTD, I-10 over US 165 and MP RR, LADOTD, Louisiana: Led the structural design of the column bents and the supporting drilled shafts; review of construction staging, and development of construction plans for column bents and the drilled shafts; and provided QC/QA review of the superstructure plans. Replacement of the two I-10 bridges overpass US 165 and MP Railroad involved complex construction phasing to maintain traffic on the interstate while removing the old structure and constructing the new bridge.
04/18 – 04/19	LADOTD, LA 182 Over Atchafalaya River (Berwick Bay), Louisiana: Provided QC/QA review of rehab design including FRP, jacking design for bearings replacement; QC/QA review of construction plans; developed the Specifications of Non-Standard items. The simple through truss bridge carries LA 182 over the Atchafalaya River has a total length of 3,746 ft. The approach spans consist of RC slab spans, RC T-beam spans, and two deck truss spans. The navigational spans consist of three through truss spans. Scope of work included evaluation of the existing bridge, rehabilitation design; developing construction plans; perform diagnostic load testing on RC T-beam approach spans; and load rating analysis of the rehabilitated bridge.
10/19 – 9/22	LADOTD, MacArthur Interchange Completion, Phase II, Louisiana: Bridge Engineer of Record responsible for the structural design of the superstructure and substructure, deck drainage design, and construction cost estimate. Further Hatem was the Project Manager to coordinate with subconsultants and LADOTD Project Manager. The project constitutes Providing two new, on-ramp and off-ramp connections between the eastbound of the elevated West Bank Expressway (US 90-Z) and Frontage Road, demolish the existing off-ramp, and widening of the US 90-Z bridge structure to accommodate the new ramps.

Firm employed by: WSP USA Inc. 			
Name	Michael Craig, PE, SE	Years of relevant experience with this employer	14
Title	Southeast In-Service Bridge Dept. Manager/Project Manager	Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization		MS / 1999 / Structural Engineering – Bridge Inspection, Repair and Design BS / 1997 / Civil Engineering	
Active registration number / state / expiration date		PE.41964 / LA / Exp. 03/2024 (also licensed in MS; TX; GA; FL; SC; NC; TN; VA; MD; NE; PR)	
Year registered	2017	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Bridge Investigation/Evaluation	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
	Over the course of the past two and a half decades, Michael has dedicated his career to the field of bridge inspection and evaluation engineering service contracts. During his career, Mr. Craig has conducted inspections, or supervised the inspection, of an impressive portfolio of over 5,000 structures. His expertise extends to load rating analysis, having performed, or managed the load rating over 3,000 bridges, primarily completed in BrR. He has also been involved in load testing of over 160 bridges and conducting material testing and non-destructive testing (NDT) on over 520 bridges. Notably, Michael has taken on leadership roles in some of the most significant bridge inspection and load rating projects across the Southeastern United States. In his management approach for load rating projects, which has proven effective in multiple statewide endeavors, Mr. Craig emphasizes the importance of a cohesive team structure, meticulous pre-planning and staffing, optimization of load rating and load posting avoidance, rigorous progress tracking, and a robust quality assurance/quality control (QA/QC) process. Mr. Craig meets MPR No. 5.		
07/18 – 12/22	SCDOT, Bridge Inspection and Load Rating, South Carolina: Project Manager of this contract, which consists of bridge inspection and determination of the load capacity ratings utilizing BrR and CSI bridge for 2,558 structures including truss, segmental, curved steel girder, movable and significantly retrofitted structures. WSP reviewed the plans, inspection reports, previous load ratings and all other available relevant bridge documents. The load ratings were completed utilizing the information provided by SCDOT and supplemented with information from our field inspections. All load ratings were completed with BrR or CSI Bridge. WSP also utilized drones as an inspection tool to help identify specific areas of bridges where a “hands-on” inspection is required. This resulted in reduced time required for traffic control and access equipment, providing a significant cost savings to SCDOT. In addition, WSP performed 160 load tests involving instrumenting the bridges with strain gauges and driving known loads across the bridge, to assist SCDOT with advanced load posting avoidance measures. The results of the test were utilized to create corrected effective structural models to increase and remove load postings from bridges across the state. These results were extrapolated out, to not only remove postings on the bridges tested, but also on similar bridges in SCDOT’s inventory. WSP efforts saved the State tens of millions of dollars.		



06/01 – Ongoing	NCDOT Structures Bridge Inspection Limited Services Contract, North Carolina: Team Leader, Project Manager and QC Manager. Michael has been continuously involved with the NCDOT bridge inspection and load rating program for 24 years. He has performed field inspections, analysis, and load ratings; designed bridge replacements, evaluated the physical condition for repairs; corrosion condition evaluations, health monitoring, nondestructive testing including UT, DP, and MP, drone Inspections and recommended preservation and maintenance needs. To date he has completed over 4,000 inspections and 2000 load ratings, including many of the state’s longest structures, curved steel structures, movable bridge, segmental boxes, and fracture critical trusses.
06/16 – Ongoing	GDOT, Engineering Services for Cable-Stayed Structures, Georgia: In his role as Project Manager, Michael has overseen the task-order contract that encompassed a range of critical bridge evaluation activities. These include a specialized member inspection of the Sidney Lanier Bridge in 2016, focusing on assessing exposed strands with varying degrees of corrosion. Additionally, there were in-depth National Bridge Inspection (NBI) and emergency post-hurricane inspections of the Talmadge Memorial Bridge in 2017 and 2020. His tasks also included the instrumentation and testing of both cable stays bridges to determine the existing force in each cable. Michael's leadership extended to two separate rehabilitation design contracts, for the Sidney Lanier Talmadge bridges, executed in 2021. The initial rehabilitation project for the Sidney Lanier Bridge primarily addressed issues related to excessive cable vibration, which included repairing cable stays with breached protective sheathing and corroded strands. Subsequently, a second rehabilitation project was carried out on the Sidney Lanier, entailing the installation of external dampers on all 176 stays. In 2022, Michael spearheaded the load rating efforts for both the Sidney Lanier and the Talmadge Signature Cable-Stay Bridges, utilizing a full 3D FEM MIDAS Model of the structures.
06/21 – 06/23	DC Metro, WMATA Rail Bridge Inspections and Load Ratings, DC: In the capacity of a Project Manager, Michael was involved in this significant project related to the DC Metro's WMATA Rail Bridge Inspections and Load Ratings. This endeavor was conducted in collaboration with Gannet Flemming Engineering. The primary objective was to improve outcomes by developing and refining WMATA's asset management procedures. To achieve this overarching goal, WSP performed routine inspections, and load rating analyses to determine the load rating of these structures. Bridge load ratings were completed in BrR and CSI Bridge, and include truss structures, curved steel box structures, and segmental concrete box structures.
06/16 – 06/22	TXDOT NBIS Bridge Inspection and Load Rating, Statewide Texas: Michael was responsible for coordinating staff and resources required for conducting comprehensive inspections and load ratings of various structures. Additionally, he played a key role in assisting with the culvert load posting avoidance program, which involved rigorous load testing and analysis to remove thousands of unnecessary load postings. The reports generated as part of these assessments were instrumental in making informed decisions regarding load limits and ensuring the structural integrity and safety of the infrastructure. The team also successfully completed more than 3463 NBIS routine bridge inspections for TxDOT, along with over two hundred load ratings. The range of inspections and load ratings encompassed reinforced concrete slabs, steel floor system superstructures, steel rolled and plate girders, and prestressed concrete girders for both simple and continuous spans.

Firm employed by: WSP USA Inc. 				
Name	Arunava Saha, PE		Years of relevant experience with this employer	3
Title	Vice President/Georgia Structures Leader		Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization		MS / 1995 / Civil Engineering BS / 1989 / Civil Engineering		
Active registration number / state / expiration date		PE.38334 / LA / Exp. 03/2024 (also licensed in GA; SC; NC; MS; KY; NV)		
Year registered	2013	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Bridge Design		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
	Arun has more than 30 years of experience in the structural engineering field and holds a master's degree in civil engineering. His structural design experience includes prestressed and post-tensioned concrete, structural steel bridges, seismic design, box culverts, and tieback retaining walls. Arun’s bridge design experience includes construction falsework and erection engineering, highly skewed and curved bridges, long-span plate girders, post-tensioned spliced box girders, and trusses. His responsibilities have included preliminary/final/ rehabilitation design, technical design reviews, load rating / BrR, analyses, and management of plan production. He has also developed LOADRATE software using Visual Basic Utilized by GDOT and their consultants to perform load ratings across the state of Georgia. Mr. Saha meets MPR No. 4.			
7/18 - 12/22	SCDOT, Bridge Inspection and Load Rating, South Carolina: Senior Load rater for the contract, which consists of bridge inspection and determination of the load capacity ratings utilizing BrR and CSI bridge for 2,558 structures including truss, segmental, curved steel girder, movable and significantly retrofitted structures. WSP reviewed the plans, inspection reports, previous load ratings and all other available relevant bridge documents. The load ratings were completed utilizing the information provided by SCDOT and supplemented with information from our field inspections. All load ratings were completed with BrR or CSI Bridge. WSP also utilized drones as an inspection tool to help identify specific areas of bridges where a “hands-on” inspection is required. In addition, WSP performed 160 load tests involving instrumenting the bridges with strain gauges and driving known loads across the bridge, to assist SCDOT with advanced load posting avoidance measures. The results of the test were utilized to create corrected effective structural models to increase and remove load postings from bridges across the state. These results were extrapolated out, to not only remove postings on the bridges tested, but also on similar bridges in SCDOT’s inventory. WSP efforts saved the State tens of millions of dollars.			
02/13 – 08/15	LADOTD, Retainer Contract for Bridge Load Rating, Statewide, Louisiana: Project manager for this \$3-million contract. LADOTD selected Stantec Consulting Ltd. to provide bridge load rating services throughout the state. Work began in 2014 and was completed in two years. This contract included load rating of more than 600 bridges. Bridge types included concrete, prestressed concrete, steel, and truss bridges, with lengths ranging from 100 feet to 29,000 feet.			
02/13 – 08/15	LADOTD, Bridge Scour Project, Statewide, Louisiana: Project manager of this approximate \$1-million contract. The project involves analysis of scour critical bridges throughout the state, including finite element analysis using data gathered from field inspection and providing recommendation reports.			

02/13 – 08/15	LADOTD, US 90 over LA 318 Design-Build, St. Mary Parish, Louisiana: Bridge task manager whose responsibilities included attendance at all design-related meetings (internal team and DOTD), resolution of design issues, coordination of project team, QA/QC design calculations and plans, and management of schedule and budget for the bridge task. The US 90 over LA 318 bridges were constructed as twin bridges. Each structure was 1887 feet long with seventeen 111-foot spans, with LADOTD precast, prestressed concrete “LG-54” girders. The superstructure consists of a simple span over LA 318, flanked by four two-span continuous units on the east and west sides. Stantec was the prime design consultant and collaborated with the Gilchrist Construction design-build team.
06/16 – Ongoing	GDOT, Engineering Services for Cable-Stayed Structures, Georgia: In his role as deputy Project Manager, Arun assisted with rehabilitation design of the cable stay dampening system. Arun’s leadership extended to two separate rehabilitation design contracts, for the Sidney Lanier Talmadge bridges, executed in 2021. The initial rehabilitation project for the Sidney Lanier Bridge primarily addressed issues related to excessive cable vibration, which included repairing cable stays with breached protective sheathing and corroded strands. Subsequently, a second rehabilitation project was carried out on the Sidney Lanier, entailing the installation of external dampers on all 176 stays. In 2022, Arun assisted with the load rating efforts for both the Sidney Lanier and the Talmadge Signature Cable-Stay Bridges, utilizing a full 3D FEM MIDAS Model of the structures
02/13 – 08/15	LADOTD, LA 511: Jimmie Davis Bridge Rehabilitation, Bossier Parish, Louisiana: Overall project manager whose responsibilities included maintaining schedule and budget; quality management; coordination with project team, sub-consultants, and client; design, plan productions, and deliverables. This project is located in Bossier Parish and crosses the Red River. The existing bridge is a 16-span structure, totaling approximately 2,823 feet in length. The bridge is on State Route LA 511 and is composed of three main steel truss simple spans: 354 feet, 402.5 feet, and 354 feet long respectively. The truss spans are flanked on both ends by three-span continuous steel deck girders, totaling 610 feet each and spanning the batture at each end. Simple steel girder spans of 70 feet each complete the structure, with five spans at the west end and two spans at the east end of the bridge. Stantec Consulting researched previous repair and inspection documents along with performing in-depth condition verification inspection using rope access method. Based on the findings of the research and site visit, Stantec generated repair strategies and presented the scope of services to LaDOTD. Upon approval, prepared construction plans for rehabilitation and performed load rating based on as-rehabilitated condition. Structural rehabilitation included full deck replacement, structural repair of truss members over 200 locations, design of paint containment system, replacement of nested rocker bearing, design and detailing of jacking scheme of truss spans, pin and hanger replacement.
02/13 – 08/15	LADOTD, Retainer Contract for Bridge Preservation, Statewide, Louisiana: Project manager for this \$6-million on-call contract, which includes a full array of services, such as bridge design, rehabilitation, bridge hydraulics, roadway design, geotechnical investigation, and surveying. LaDOTD selected Stantec Consulting Ltd. to provide bridge task order services throughout the state. To date, the focus of the contract has been to provide design and construction documents for the new widening and rehabilitation of bridges throughout the various districts in Louisiana.



Firm employed by: WSP USA Inc. 				
Name	Trevor Johnson, PE		Years of relevant experience with this employer	18
Title	Director, Structural Engineer		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		BS / 2002 / Structural Engineering		
Active registration number / state / expiration date		PE.45518 / LA / Exp. 09/2025 (also licensed in FL)		
Year registered	2021	Discipline	Structural Engineering	
Contract role(s) / brief description of responsibilities		Bridge Design		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
	Trevor is a lead structural engineer and bridge inspector with extensive experience with bridge rehabilitation, design, analysis, inspection, evaluation, retrofit plan work, and alternative studies. Trevor led several complex projects including high-level, difficult access structures; confined space; movable bridges; and historic structures. Trevor has experience with unique vertical lift bridges, bascules, truss bridges, bobtail (asymmetrical) swing bridge, steel box pier caps, and various prestressed concrete superstructures, and has provided quality assurance/quantity control for numerous bridge design and inspection projects. Mr. Johnson meets MPR No. 5.			
10/19 - 04/20	LADOTD, Port of New Orleans, Almonaster Rail Bascule Bridge, New Orleans, LA: Technical Advisor for the single leaf Strauss truss bascule bridge rehabilitation recommendations and analysis for the repair of deteriorated components of the Almonaster Bridge. Trevor’s duties include advising and review of the on-site inspection, quality control review reports of findings & technical memorandums, and load rating calculations.			
03/19 – Ongoing	LADOTD, Seabrook Rail Bascule Bridge, New Orleans, LA: Technical Advisor for the single leaf Strauss truss bascule bridge and approach span rehabilitation. Trevor’s duties included advising and quality control review of the analysis, design, contract plans and specifications of the full superstructure and bearings replacement for each approach spans along with post design services.			
06/16 – 05/21	FDOT, District Wide Bridge Engineering Design/CEI Support Services, District One, FL: Project Manager and Engineer of Record responsible for this task work order based contract for various repairs, inspections, and rehabilitation projects including multiple movable bridge repairs and mechanical/electrical upgrades, post tension bridge repairs, conventional bridge repairs, emergency response, engineering assessments, painting, fender repairs, pile jackets, cathodic protection system repairs, ABC bridge span replacement, joint repairs, concrete and steel repairs, load ratings, and temporary traffic control. Responsibilities also included determining appropriate scope of work, implemented innovative cost saving approaches, coordinated with owners, stakeholders, and project team, and lead work to high quality standards, constructability, and accurate cost estimates.			
04/16 – 11/19	FDOT, Bridge of Lions Bascule over Matanzas River IWW, St. Augustine, FL: Project Manager and Structural Engineer responsible for the double rolling bascule bridge rehabilitation, spot painting and overcoating of existing metalizing, correcting barrier railing conflicts, partial replacement of the sidewalk slip resistant plates, and repairing all the pedestrian railing and coordinating the electrical rehabilitation and limit switch improvements.			

06/12 - 12/18	FDOT, District Wide Movable and Complex Bridge Repairs, District Two, FL: Project Manager and Engineer of Record responsible for this task work order based contract for various repairs, inspections, and rehabilitation projects including movable bridge repairs, approach span repairs, inspections, and mechanical/electrical upgrades, multiple truss bridge repairs, segmental post tension soft grout investigations and impregnation repairs, painting, joint repairs, concrete spall and crack repairs, load ratings, and temporary traffic control. Responsibilities also included determining appropriate scope of work, cost effective complex steel repairs, minimized impacts on the public, coordinated with owners, stakeholders, and project team, and lead work to high quality standards, constructability, and accurate cost estimates.
11/16 - 03/21	FDOT, Wilson Pigott Draw Bascule Bridge & LaBelle Draw Bascule Bridge over the Caloosahatchee Channel, Lee County, FL: Project Manager and Engineer of Record responsible for these double-leaf Hopkins trunnion bascule bridges. Work included strengthening to bring the structure up to current HL-93 FL120 load rating. Strengthening included innovative solutions of adding post tensioning bars to the floor beams, post installed shear connectors to the cross beams, and carbon fiber wraps to the pre-stressed approach span beams. Rehabilitation included spall repairs, structural steel repairs, coating spot paint, span balancing, span lock repairs, live load shoe adjustments, temporary traffic control, and Wilson Pigott Draw included replacement of the program logic control system (PLC). Also responsible for coordinating with owners, stakeholders, community outreach, and project team, and lead work to high quality standards constructability, and accurate cost estimates.
07/09 – 07/16 & 10/17 – 09/18	FDOT, Main Street Lift Bridge Structural Enhancements, Jacksonville, FL: Project Manager and Engineer of Record responsible for structural enhancement to this landmark 365-foot span drive vertical lift truss bridge including sidewalk replacement, addition of barriers for truss protection, structural repairs of the trusses, towers, floor beams, stringers, rocker nest bearing repairs, approach span repairs, and spot painting. lead inspections, determine appropriate scope of work, establish structural repair methods. Work also included electrical rehabilitation and droop cable replacement. Engineering studies include: Main Sheave Trunnion and Wire Rope Replacement, Fit for Service analysis (remaining life) of trunnion cracks, cost estimate, construction time estimates and Traffic Resistance Barrier Replacement for making improvements to the existing and replacement options.
10/14 – 12/17	FDOT, John Ringling Parkway Bascule Bridge over New Pass, Sarasota, FL: Project Manager and Engineer of Record for this single leaf trunnion bascule span. Trevor's responsible for replacing the concrete filled sidewalk grating, window and door replacement, roof replacement, traffic gate replacement, and structural support for the generator replacement, control system replacement, and a motor re-alignment.

Firm employed by: WSP USA Inc. 				
Name	Casey Howard, PE		Years of relevant experience with this employer	10
Title	Project Manager/Lead Bridge Engineer		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 2013 / Civil Engineering		
Active registration number / state / expiration date		PE.42913 / LA / Exp. 03/2025		
Year registered	2018	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Bridge Investigation/Evaluation, Bridge Design		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
	Casey is a Federal Highway Administration-certified bridge inspector and a structural engineer. His experience includes inspection and report preparation for bridges and culverts for numerous states the across the Southeast. Casey also has experience in the load rating and analysis of steel, timber, prestressed American Association of State Highway and Transportation Officials concrete girder, reinforced concrete deck girders, and prestressed concrete cored slab and box beam bridges for the North Carolina Department of Transportation. Mr. Howard meets MPR No. 5.			
07/18 – 12/22	SCDOT, Bridge Inspection and Load Rating, South Carolina: Deputy Project Manager of this contract, which consists of bridge inspection and determination of the load capacity ratings utilizing BrR and CSI bridge for 2,558 structures including truss, segmental, curved steel girder, movable and significantly retrofitted structures. WSP reviewed the plans, inspection reports, previous load ratings and all other available relevant bridge documents. The load ratings were completed utilizing the information provided by SCDOT and supplemented with information from our field inspections. All load ratings were completed with BrR or CSI Bridge. WSP also utilized drones as an inspection tool to help identify specific areas of bridges where a “hands-on” inspection is required. This resulted in reduced time required for traffic control and access equipment, providing a significant cost savings to SCDOT. In addition, WSP performed 160 load tests involving instrumenting the bridges with strain gauges and driving known loads across the bridge, to assist SCDOT with advanced load posting avoidance measures. The results of the test were utilized to create corrected effective structural models to increase and remove load postings from bridges across the state. These results were extrapolated out, to not only remove postings on the bridges tested, but also on similar bridges in SCDOT’s inventory. WSP efforts saved the State tens of millions of dollars.			
06/16 – 06/22	TXDOT NBIS Inspections and Load Ratings, TxDOT, Statewide Texas: Casey performed comprehensive inspections and load ratings of various structures. Additionally, he played a key role in assisting with the culvert load posting avoidance program, which involved rigorous load testing and analysis to remove thousands of unnecessary load postings. The reports generated as part of these assessments were instrumental in making informed decisions regarding load limits and ensuring the structural integrity and safety of the infrastructure. The team also successfully completed more than 3463 NBIS routine bridge inspections for TxDOT, along with over two hundred load ratings. The range of inspections and load ratings encompassed reinforced concrete slabs, steel floor system superstructures, steel rolled and plate girders, and prestressed concrete girders for both simple and continuous spans.			



<p>06/16 - Ongoing</p>	<p>GDOT, Engineering Services for Cable-Stayed Structures, Georgia: In his role as Deputy Project Manager, Casey has overseen the task-order contract that encompassed a range of critical bridge evaluation activities. These include a specialized member inspection of the Sidney Lanier Bridge in 2016, focusing on assessing exposed strands with varying degrees of corrosion. Additionally, there were in-depth National Bridge Inspection (NBI) and emergency post-hurricane inspections of the Talmadge Memorial Bridge in 2017 and 2020. His tasks also included the instrumentation and testing of both cable stays bridges to determine the existing force in each cable. Casey assisted with rehabilitation design of the cable stay dampening system. Michael's leadership extended to two separate rehabilitation design contracts, for the Sidney Lanier Talmadge bridges, executed in 2021. The initial rehabilitation project for the Sidney Lanier Bridge primarily addressed issues related to excessive cable vibration, which included repairing cable stays with breached protective sheathing and corroded strands. Subsequently, a second rehabilitation project was carried out on the Sidney Lanier, entailing the installation of external dampers on all 176 stays. In 2022, Casey Assisted with the load rating efforts for both the Sidney Lanier and the Talmadge Signature Cable-Stay Bridges, utilizing a full 3D FEM MIDAS Model of the structures.</p>
<p>06/21 - 06/23</p>	<p>DC Metro, WMATA Rail Bridge Inspections and Load Ratings, DC: In the capacity of a deputy Project Manager, Casey was involved in this significant project related to the DC Metro's WMATA Rail Bridge Inspections and Load Ratings. This endeavor was conducted in collaboration with Gannet Flemming Engineering. The primary objective was to improve outcomes by developing and refining WMATA's asset management procedures. To achieve this overarching goal, WSP performed routine inspections, and load rating analyses to determine the load rating of these structures. Bridge load ratings were completed in BrR and CSI Bridge, and include truss structures, curved steel box structures, and segmental concrete box structures. A key aspect of the project involved prioritizing repairs. This prioritization process is integral to the current and future bridge asset management and capital program development.</p>
<p>2012 - Ongoing</p>	<p>NCDOT Structures Bridge Inspection Limited Services Contract, North Carolina: Team Leader, and QC Manager. Casey has been involved with the NCDOT bridge inspection program for 9 years. He has performed field inspections, analysis and ratings; evaluated the physical condition; and recommended preservation and maintenance needs. Casey has also led the design for numerous bridge repair and preservation projects under this contract including: hydro-demolition and latex-modified concrete overlays, joint replacement, beam end repairs, timber and concrete pile repairs, galvanic protection of prestressed girders, cathodic and sacrificial anode protection of bent caps, bearing replacement and prestressed pile jacketing with sacrificial anodes. To date he has completed over 1000 load ratings utilizing, Mathcad, Excel and BrR; and 2,000 inspections, including many of the state's longest structures, segmental boxes, and fracture critical trusses.</p>




Firm employed by: WSP USA Inc. 				
Name	William (Coley) Mitchell, CBI		Years of relevant experience with this employer	11
Title	Senior Technical Specialist		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		AS / 2011 / Architectural Engineering		
Active registration number / state / expiration date		N/A		
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities		Bridge Investigation/Evaluation		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
	William has experience as team leader and non-destructive testing (NDT) inspector on numerous bridges across the Southeast and Texas. He is well versed in the procedures, policies, and standards required to perform NDT inspections of bridge components and is experienced in coordinating with various agency personnel, subcontractors and vendors. William has a wide variety of experience in bridge inspections, varying from cable-stayed, truss, and suspension span bridges, to single-span timber bridges and culverts.			
07/18 - 12/22	SCDOT, Bridge Inspection and Load Rating, South Carolina: Deputy Project Manager of this contract, which consists of bridge inspection and determination of the load capacity ratings utilizing BrR and CSI bridge for 2,558 structures including truss, segmental, curved steel girder, movable and significantly retrofitted structures. WSP reviewed the plans, inspection reports, previous load ratings and all other available relevant bridge documents. The load ratings were completed utilizing the information provided by SCDOT and supplemented with information from our field inspections. All load ratings were completed with BrR or CSI Bridge. WSP also utilized drones as an inspection tool to help identify specific areas of bridges where a “hands-on” inspection is required. This resulted in reduced time required for traffic control and access equipment, providing a significant cost savings to SCDOT. In addition, WSP performed 160 load tests involving instrumenting the bridges with strain gauges and driving known loads across the bridge, to assist SCDOT with advanced load posting avoidance measures. The results of the test were utilized to create corrected effective structural models to increase and remove load postings from bridges across the state. These results were extrapolated out, to not only remove postings on the bridges tested, but also on similar bridges in SCDOT’s inventory. WSP efforts saved the State tens of millions of dollars.			
06/17 - 01/18	MnDOT, St. Croix Bridge Inspection, Minnesota and Wisconsin: Team Leader for the initial, element level inspection of the St. Croix River Crossing extradosed cable-stayed bridge. A baseline inspection was performed, providing the client with accurate and repeatable reporting of deficiencies. Due to geometric constraints and to minimize impact to ongoing construction activities, rope access was utilized to inspect several complex bridge elements, including the pylons and below deck stay cable anchorages. In addition to inspection, the scope of work included providing recommendations for updating the maintenance and inspection manual for the new signature structure. The 5,279-ft-long bridge opened to traffic in 2017 and contains 10 main-river crossing extradosed cable-supported spans and continuous post-tensioned precast and cast-in-place box girder approach spans.			

<p>03/16 - Ongoing Reselected 2017</p>	<p>TXDOT NBIS Bridge Inspection and Load Rating, Statewide Texas: Team Leader responsible for performing inspections coordinating staff and resources required for conducting comprehensive inspections and load ratings of various structures. Additionally, he played a key role in the field assisting with the culvert load posting avoidance program, which involved rigorous load testing and analysis to remove thousands of unnecessary load postings. The reports generated as part of these assessments were instrumental in making informed decisions regarding load limits and ensuring the structural integrity and safety of the infrastructure. The team also successfully completed more than 3463 NBIS routine bridge inspections for TxDOT, along with over two hundred load ratings. The range of inspections and load ratings encompassed reinforced concrete slabs, steel floor system superstructures, steel rolled and plate girders, and prestressed concrete girders for both simple and continuous spans. William used rope access to gain the proper hands-on access required and perform non-destructive testing on problematic detail and crack locations across the state.</p>
<p>06/16 - Ongoing</p>	<p>GDOT, Engineering Services for Cable-Stayed Structures, Georgia: One of six Team Leaders that completed the inspection and rehabilitation of the Talmadge Memorial and Sidney Lanier cable-stayed bridges. This task-order basis contract has included a special member inspection of the Sidney Lanier Bridge (2016) to evaluate exposed strands with various degrees of corrosion present, in-depth NBI and emergency post-hurricane inspection of the Talmadge Memorial Bridge (2017 and 2020) and the rehabilitation of the dampening system for the cable stays, and two rehabilitation design contracts for the Sidney Lanier Bridge. The first rehabilitation project for the Sidney Lanier Bridge primarily addressed deficiencies associated with excessive cable vibration, including repairs to cable-stays with breached protective sheathing and corroded strands. The second rehabilitation project included the installation of external dampers at all 176 stays. Due to geometric constraints, and to minimize impact to traffic, rope access was utilized to inspect several complex bridge elements, including the pylons and below deck stay cable anchorages.</p>
<p>2011 - Ongoing</p>	<p>NCDOT 2011 - 2022, NBIS Bridge Inspection Team Leader, Statewide, North Carolina: Project Manager. William has been involved with the NCDOT bridge inspection program for 10 years. He has performed field inspections, analysis and load ratings; evaluated the physical condition; and recommended preservation and maintenance needs. To date he has completed over 1,500 inspections, including many of the state’s longest structures, segmental boxes, and fracture critical trusses.</p>




Firm employed by: WSP USA Inc. 				
Name	Marlena Cutura, EIT		Years of relevant experience with this employer	3
Title	Civil Engineer		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 2020 / Civil Engineering		
Active registration number / state / expiration date		Engineering Intern: GA EIT028746		
Year registered	N/A	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Bridge Design (Support)		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
	Marlena Cutura is a Civil EIT with experience in roadway engineering. Her project experience includes geometric design, corridor modeling, multi-discipline coordination, and plan production in accordance with applicable guidelines. In addition, Marlena has experience utilizing the following software: MicroStation/Inroads, OpenRoads, AutoTurn, Microsoft Suite, and Geographical Information System (GIS).			
03/23 - Ongoing	GDOT SR 54 at Gordon Road Safety Improvement, Roundabout, Coweta County, Georgia: Engineering Intern. WSP is providing design services for a proposed roundabout at the intersection of SR 54 and Gordon Road for safety improvement to reduce crash frequency and severity and improve operational efficiency. Marlena served as the lead designer for the roundabout. Marlena designed a conventional four-leg roundabout with OSOW vehicle accommodation though a variable truck apron around the center island. In addition to geometrics and performance check packages, she also created the models for the roundabout and aided in plan production for various sections of the project.			
05/21 - Ongoing	GDOT City of Summerville SR 1/US 27 Bypass Design Services, Chattooga County, Georgia: Engineering Intern. WSP is providing design services for the construction of a new bypass south of the City of Summerville to connect with an existing section of State Route 1/U.S. Route 27. The State Road 1/U.S. Route 27 facility will also be widened as part of this project. The bypass will alleviate congestion along the State Route 1/U.S. Route 27 corridor by shifting through traffic away from downtown Summerville and accommodate current and future demand due to the route’s inclusion as part of the GRIP System and the state’s Freight Corridor Network. Marlena served as the lead designer for the three roundabouts on this project: <ul style="list-style-type: none"> • <i>At the intersection of SR 114 and the Proposed Bypass, Marlena designed a hybrid 4-leg roundabout (2x1) with turbo features, such as raised lane dividers, while also accommodating OSOW vehicles by utilizing outside truck blisters for over tracking during skewed turns.</i> • <i>At the intersection of SR 100 and the Proposed Bypass, Marlena designed a conventional single-lane, 3-leg roundabout that also accommodates the demand for OSOW vehicle travel.</i> • <i>At the intersection of SR 1 and the Proposed Bypass, Marlena designed a Hybrid 3-leg Roundabout (2x1) with turbo features that accommodate OSOW vehicles.</i> For all three of these roundabouts, Marlena completed the horizontal and vertical geometrics and produced performance check packages including Turning Envelopes, Fastest Paths, Stopping Sight Distances, and Intersection Sight			



	Distance checks by utilizing AutoTurn and MicroStation InRoads software. In addition, she created the models for each roundabout and produced cross and typical sections, calculated pavement quantities, produced right of way plans, and aided in various other plan production efforts.
02/21 – Ongoing	GDOT Interstate 285 at Interstate 20 W. Interchange General Engineering Consultant, Atlanta, Georgia: Engineering Intern. WSP is serving as the general engineering consultant and owner’s representative during the pre-let and post-let phases of this design-build project. The project includes new lane miles along Interstate 20, interchange operational performance enhancements, new collector-distributor lanes, and connections to the Express Lanes system. WSP’s scope also included environmental documentation, preliminary design, procurement support and construction engineering inspection services related to the owner’s verification firm role. As an Engineering Intern, Marlana produced the right-of-way plans for the entirety of the project, as well as calculating R/W area takes and easements for coordination. She has conducted various sight distance studies including ISD and SSD by utilizing InRoads Sight Visibility Tool. She has also aided in creating Design Exception/Variance documents and exhibits for approval such as sight distance variance exhibits and spot shoulder reduction exception exhibits. She created the initial phases of erosion and sediment control plans using and quantifying best management practices (BMPs) as well as calculating pavement quantities for this project.
08/23 – 11/23	GDOT I-285 PCC Replacement Project, Cobb and Fulton County, Georgia: Engineering Intern. WSP is providing services for PCC pavement replacement structures, inside shoulder widening, cross-slope and stopping sight distance corrections, guard rail and median barrier replacement and ITS system reconstruction along I-285 from CS 843/Collier Road to CR 2838/Paces Ferry Road. As an EI on this project, Marlana assisted in creating Erosion Control plans such as the 54-series (BMP Location Details) for the length of the project, 51-Series (ESPCP General Notes), as well as calculating various erosion control quantities.
03/21 – 09/22	GDOT I-85 Widening Phase III Design-Build from US 129 to US 441, Jackson and Banks Counties, Georgia: Engineering Intern. WSP is providing the design-build services to widen I-85 one lane toward the inside median in the northbound and southbound directions beginning at US 129 in Jackson County and ending at US 441 in Banks County. The Project will also include replacement and widening of two pairs of mainline bridges, the first pair crossing over North Oconee River, and the second pair crossing over Ridgeway Church Road. As an engineering intern on this project, Marlana assisted with collecting various quantities, creating erosion and sediment control plans, and conducting profile optimization of the vertical alignments.

Firm employed by: Vectura Consulting Services, LLC				
Name	Sheelagh Brin Ferlito, PE, PTOE		Years of relevant experience with this employer	8
Title	Vectura Principal		Years of relevant experience with other employer(s)	27
Degree(s) / Years / Specialization		Bachelor of Science / 1988 / Civil Engineering		
Active registration number / state / expiration date		PE.0025383 / LA / Exp. 9/2025 PTOE # 932 / National / Exp. 9/2024		
Year registered	1993	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Traffic Engineering		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
	Brin co-founded VECTURA in 2015 and has focused her career on traffic and transportation engineering. Her professional experience includes the development of regional planning studies, intersection and corridor improvement studies, traffic impact studies, traffic/pedestrian signal equipment design, ITS design and CE&I services for construction projects. She is familiar with Federal Highway Administration (FHWA) and Louisiana Department of Transportation and Development (LA DOTD) traffic guidelines, policies and procedures. Her projects have been located in communities throughout Louisiana for both private companies and public agencies. Ms. Ferlito meets MPR No. 6.			
07/21 - Ongoing	H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge, LA) Brin is the task leader for Vectura for the Construction Engineering and Inspection of 24 traffic signals. Brin oversaw the review of signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Brin and Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.			
07/19 – Ongoing	MOVEBR New Capacity Projects Program Management (Baton Rouge, LA) Brin is the lead traffic engineer for entire the New Capacity Projects program management team. All traffic engineering scope of services, traffic / speed data collection, traffic design studies, safety studies, and traffic signal design plans are reviewed by Brin. She is in constant communication with the Traffic Engineering staff of DOTD and EBR Traffic Engineering Department. She understands the current requirements for all aspects of traffic engineering projects.			
07/19 – Ongoing	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 Louisiana DOTD.			
04/18 – 06/21	H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish) Brin reviewed 60 Percent Preliminary Signing and Striping Plans and developed documented comments based on LADOTD Road Design Manual, LADOTD Standard Details and MUTCD. She is also the project manager for the design of temporary traffic signal plans that will be implemented during the roundabout construction at the intersection of US 171 at Boone Street in Leesville, LA. She coordinated access management issues using aerials, aged traffic volumes and Synchro Software.			



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 the 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.
02/17-10/17	Stage 0 Judge Tanner Boulevard at N. Causeway Roundabout Study (St. Tammany Parish, LA) Brin developed the safety analyses for a Stage 0 Study for 4 intersections in the Mandeville area. The study was based on EDSMs VI.1.1.1 / VI.1.1.5 and DOTD Traffic Engineering Manual Section 20.2. Brin assisted collecting 7-day, 24-hour counts w/ Classification, turning movement counts for peak periods and speed data for mainlines. She developed signal timing in the PTV Vistro software. The signal timings were then used in Sidra to complete the HCM analyses. Brin provided a quality control review of the traffic report.
06/16-09/17	H.004490 Stage 0 Roundabout Studies (Lafayette Parish, LA) Brin developed sections of a Stage 0 Feasibility Study for roundabouts the conformed to DOTD EDSMs and Traffic Engineering Manual Section 20.2 at ten intersections in the Lafayette area. Brin, along with Laurence, collected 7-day, 24-hour counts w/ classification, turning movement counts for AM and PM peak periods and speed data for mainlines. Brin provide a QC review of the Sidra analyses and developed traffic signal timing for 3 intersections for Years 2019 and 2039, AM & PM peak hours and developed a crash analyses as defined in Section 20.2 of TEM. CMF factors were identified for the preferred alternative to predict the number of crashes that could be eliminated. Brin provided a QC review of the final draft.
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.

Firm employed by: Vectura Consulting Services, LLC			
Name	Laurence Lucius Lambert, II, PE, PTOE, PTP	Years of relevant experience with this employer	8
Title	Vectura Principal	Years of relevant experience with other employer(s)	18
Degree(s) / Years / Specialization	Bachelor of Science / 1997 / Civil Engineering Master of Science / 2006 / Civil Engineering MBA / 2010		
Active registration number / state / expiration date	PE.0029901 / LA / Exp. 3/2024; PTOE # 1303 / National / Exp. 2/2025		
Year registered	2002	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Traffic Engineering		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
	Laurence co-founded VECTURA in 2015 and has performed traffic services ranging from transit facility location studies to corridor studies that focus on complete street improvements. He also performed intersection / corridor studies for some of the most complicated corridors in the state of Louisiana using HCM and microsimulation tools to tackle these projects. Laurence also developed transportation components of several city, parish and regional comprehensive master plans. He currently serves as the Chair on the East Baton Rouge Complete Street Citizen Advisory Committee and the Board of Directors for the Capital Area Transit System (CATS). Laurence also taught the transportation engineering course in the Civil Engineering department at the University of New Orleans as an adjunct instructor. Mr. Lambert meets MPR No. 6.		
02/21 - 03/21	H.013256.5 I-10 ITS Scott to Lake Charles (Southwest Louisiana) 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.		
07/22 – 09/22	H.013716.5 – US 167: Camellia Blvd – Churchill Dr (Lafayette, LA) Pedestrian Count Study Laurence developed a technical memorandum as part of a DOTD Safety IDIQ contract to document if an approach at a signalized intersection met the warrants listed in the Traffic Engineering Manual Sections 3B.2.4 and 3B.2.8 for a pedestrian marked crosswalk.		
07/19 – Ongoing	MOVEBR New Capacity Projects Program Management (Baton Rouge, LA) At the beginning of the program, Laurence worked with the Capital Region Planning Commission to produce measures of effectiveness from the travel demand model to prioritize the MOVEBR project list. Laurence and Pong Wu developed a list of vehicle miles traveled, V/C ratios and vehicles hours of delay. Laurence also developed specifications of Rectangular Rapid Flashing Beacons (RRFB) for the City of Baton Rouge.		
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.		
04/18 – 12/21	H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish, LA) Laurence provided a Quality Control review of the temporary construction and sequence of construction plans. Vectura also provided Quality Control review of signing and		



	striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the Manual on Uniform Traffic Control Devices (MUTCD) details on roundabouts.
02/20 – 09/21	College Drive Corridor Enhancement from Perkins Road to I-10 (Baton Rouge, LA) Laurence was the project manager to develop Chapter 1 (Data Collection), Appendix A (Initial Data Collection), and Appendix B (Final Data Collection) for proposed improvements College Drive. Since the I-10 interchange was included in the study, approval from DOTD was required. Vectura collected, turning movement counts, 85% speed data, travel time runs, queue measurements, field observations, verification of Traffic Signal Inventories, and bicycle / pedestrian / transit observations.
09/17-04/18	US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Equipment Design Slidell, LA Laurence assisted Brin in the development of 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.
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.
01/17 – 07/17	RPC Task ST-1.17 Minnesota Park Road Improvements (Tangipahoa Parish) Laurence was the task leader for a traffic data collection and intersection analyses of a Stage 0 feasibility study. Laurence utilized Sidra software to perform an alternative analyses Highway Capacity Manual Analyses that included STOP, signal, and a roundabout. The DOTD procedures for utilizing Sidra were followed for this project. Laurence stamped the final version of the traffic study for the Stage 0.
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.

Firm employed by: Vectura Consulting Services, LLC			
			
Name	Reece Rodrigue, PE, PTOE, RSP1	Years of relevant experience with this employer	4
Title	Project Traffic Engineer	Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization	Bachelor of Science / 2013 / Civil Engineering		
Active registration number / state / expiration date	PE.0042074 / LA / Exp. 3/2024; PTOE # 4508 / National / Exp. 7/2025		
Year registered	2017	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	Traffic Engineering		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
	Reece is an experienced transportation engineer who has performed traffic data collection, traffic signal warrants, traffic studies, safety studies, temporary traffic control design and modifications. He is proficient in the use of the latest traffic engineering software tools to aid in the completion of these projects. He also has an appreciation for pedestrian signalization crosswalks, and maintaining ADA compliance. He is familiar with local, state, and federal traffic engineering guidelines and policies.		
04/21 - Ongoing	MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA Reece is a project engineer for the design of traffic signal upgrades at 10 intersections. This project included a traffic design report, preliminary and final plans for traffic signals that included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. The design also included traffic signal synchronization signal timing and pedestrian signal timing.		
07/21 – Ongoing	H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge) 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.		
01/21 – 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 was a project engineer, who participated 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 an 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 was a project 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. 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.		

04/20 - Ongoing	H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project (Belle Chasse) Reece is the project engineer who designed the temporary traffic signal for the intersection of LA 23 at Engineers Rd. The design of the temporary signals is set 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, which was also used in planning for the permanent and temporary signal timing plans. Reece also produced 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. Reece maintains correspondence with the fellow design engineering team for product consistency. In addition, Reece reviewed and approved shop drawings that were submitted by the contractor.
04/21 - Ongoing	MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA Reece is a project engineer for the design of traffic signal upgrades at 10 intersections. This project included a traffic design report, preliminary and final plans for traffic signals that included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. The design also included traffic signal synchronization signal timing and pedestrian signal timing.
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). 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.


Firm employed by: Vectura Consulting Services, LLC 				
Name	Kristen A. Farrington, PE, PTOE, RSP1		Years of relevant experience with this employer	2
Title	Project Traffic Engineer		Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization		Bachelor of Science / 2013 / Civil Engineering		
Active registration number / state / expiration date		PE.0042785 / LA / Exp. 3/2025; PTOE # 4863 / National / Exp. 3/2026		
Year registered	2018	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Traffic Engineering		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
	Kristen has performed numerous Stage 0 and other traffic design studies for the LA DOTD. Kristen fully understands the National Environmental Policy Act (NEPA) process as it relates to transportation engineering studies and can deliver traffic studies for federal and state approval. Kristen is also an expert at MicroStation as well other traffic analysis software. Kristen took formal Geographic Information Systems (GIS) training and can utilize the GIS software to present crash data and other environmental information.			
05/23 – 07/23	H.013722 Morgan City Sidewalks & Shared Use Path (Morgan City, LA) Kristen was the lead engineer as part of a DOTD Safety IDIQ contract to document if an approach at a signalized intersection met the warrants listed in the Traffic Engineering Manual Sections 3B.2.4 and 3B.2.8 for a pedestrian marked crosswalk. The study also included an evaluation of a mid-block crossing based on the criteria set in Section 3B.2.7 of the Traffic Engineering Manual. The study consisted of vehicular and pedestrian counts, spot speed study, a safety analysis and field observations.			
04/21 - Ongoing	CP No. 16 CI-US-0032 Bus Rapid Transit (BRT) Improvement Project (Baton Rouge, LA) Kristen a project engineer for a traffic design study and traffic signal design of 19 signals along three corridors: Plank Road, 22nd Street and US 190 (Florida Street). Kristen assisted the prime consultant with the safety analysis as well.			
08/21 – 04/22	H.013267 Downtown to Scotlandville Parkway Trail Safety Enhancement Study (Baton Rouge, LA) Kristen was a project engineer for a design study to evaluate the recommended street crossing treatments of the trail at eight locations. The project consisted of collecting vehicular speed and volume data at the proposed trail crossings. Geometric field checks were also performed to determine if any hazards to pedestrians or cyclists existed. Once the field data was collected and analyzed, appropriate crossing treatments utilizing the FHWA STEP Guide for Improving Pedestrian Safety at Unsignalized Locations were developed that included Rectangular Rapid-Flashing Beacons (RRFB) and Pedestrian Hybrid Beacons (PHB's). Currently, Vectura is developing plans for the PHB's at four locations which will be the first implementation of PHB's in the Baton Rouge area on a state route.			
02/20 – 09/21	MOVEBR College Drive Enhancement Project (Baton Rouge, LA) Kristen assisted with the data collection task of the College Drive project limits. Tasks included in data collection were 7-day tube counts, intersection turning movement counts, approach tube counts, unmet demand observations, driveway counts, travel time runs, pedestrian / bicycle counts, and weaving counts.			
06/19 - 02/21	H.013459 US 167 Improvements Stage 0 Elsie Street to Gilbert Street (St. Landry Parish, LA) Kristen served as project manager for a Stage 0 study to evaluate the addition of a third lane to US 167 from Elsie Street south to a point past			

	Gilbert Drive. Environmental impacts and cost estimates were prepared, as well as a benefit-cost analysis of all improvements considered. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis. Designed high-level concept exhibits and comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes.
06/19 - 02/21	H.013460 US 167 Improvements Stage 0 Enola Street to Ross Road (Evangeline Parish, LA) Kristen served as project manager for a Stage 0 study of a two-lane road to remove a curvilinear section of US 167 from Enola Street near LA 748, southeast for approximately 1.2 miles. The study compared connecting existing property owners to a new roadway with driveways or intersection of old roadway. Environmental impacts and cost estimates were prepared. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis, as well as a benefit-cost analysis. Designed high-level concept exhibits and a comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes.
04/19 – 06/21	H.013817.1 LA 117 Improvements Stage 0 (Vernon and Natchitoches Parishes, LA) Kristen served as project engineer responsible for a Stage 0 study for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study evaluated the impacts of correcting deficient vertical and horizontal geometry along the corridor, widening for the addition of shoulders, and adding passing lanes and turn lanes at strategic locations along the corridor. Kristen was responsible for performing the safety analysis including crash rate number method, over-representation, CAT Scan quality assurance, HSM existing safety analysis, and No-Build Analysis. Kristen designed high-level concept exhibits, evaluated environmental impacts, and prepared high level cost estimates and comparison matrices to determine which preliminary alternatives best meet the purpose and need of the project. Kristen compiled all findings in the Stage 0 report and coordinated with stakeholders and local agencies to ensure the purpose and need of project is met.
03/19 – 11/19	H.012311 LA 429 Connector Stage 0 (Ascension Parish, 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 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 - 03/21	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.

Firm employed by: Vectura Consulting Services, LLC					
Name	Bridget S. Robicheaux, PE, PTOE		Years of relevant experience with this employer	6	
Title	Project Traffic Engineer		Years of relevant experience with other employer(s)	9	
Degree(s) / Years / Specialization		Bachelor of Science / 2007 / Civil Engineering Master of Science / 2014 / Civil Engineering			
Active registration number / state / expiration date			PE.0041272 / LA / Exp. 3/2025; PTOE # 4824 / National / Exp. 3/2026		
Year registered	2016	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Traffic Engineering		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
	Bridget obtained her master’s degree in Civil Engineering at LSU with her research focused on transportation and highway safety. Bridget's professional experience includes work in both the private and public sector where she worked for Louisiana Department of Transportation and Development Traffic Engineering Section. She has developed numerous traffic and safety studies and is well-versed in the latest traffic engineering software packages and the standards of practice for transportation and traffic studies.				
07/21 – Ongoing	H.007160 EBR Computerized Traffic Signal, Phase VB (Baton Rouge). Bridget has reviewed the signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Bridget also reviewed the traffic signal supports and documented all of her comments in a quality control tracker spreadsheet.				
06/21 - 06/21	CP No. 16 CI-US-0032 Bus Rapid Transit (BRT) Improvement Project (Baton Rouge, LA). Bridget assisted with the traffic signal design of 19 signals along three corridors: Plank Road, 22nd Street and US 190 (Florida Street).				
03/21 - 07/22	H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge, LA). Bridget is part of the team responsible for Construction Engineering and Inspection. Bridget has reviewed the signal mast arm shop drawings (checking pole quantities and markups) to assist the City-Parish of Baton Rouge in accepting the manufactured poles.				
04/20 - 07/20	H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project (Belle Chasse, LA). Bridget assisted the project engineer who designed the temporary traffic signal for the intersection of LA 23 at Engineers Rd by pulling crash data along LA 23, reviewing and summarizing crash reports, and performing CATScan analysis.				
04/19 - 01/20	Traffic Studies for Broussard Middle School and Billeaud Elementary School (Lafayette Parish, LA). Bridget was the project engineer for developing a Traffic Study for two school entrances in Broussard, LA. Her project tasks included traffic data collection, forecast traffic volume development, existing traffic analyses and future traffic analyses using HCM software. She performed turn lane warrants based on NCHRP Report Number 457 as well as storage lengths based on queues and DOTD requirements.				
07/19 – Ongoing	MOVEBR New Capacity Projects Program Management (Baton Rouge, LA). Bridget assists Brin on a daily basis for the entire New Capacity Projects program management team. Bridget has performed multiple reviews of traffic studies and traffic signal designs. This includes reviewing raw data, unmet demand, volume maps, existing and build analyses, and safety analyses for accuracy and consistency throughout the report. She provides comments in a spreadsheet known as				

	<p>the Comment Tracker. All comments are posted in the Comment Tracker so that all parties are aware. Many of these projects are located on state routes and require approval by the Traffic Engineering staff of DOTD and EBR Traffic Engineering Department. She understands the current requirements for all aspects of traffic engineering projects. Using methods outlined in NCHRP 765, Bridget helped to develop design year volumes for the Jones Creek (Airline to Jefferson) MOVEBR project. She has developed Turn Lane tech memos for the MOVEBR Old Hammond Highway Segments 1A and two projects and for the MOVEBR Highland at Siegen project.</p>
07/18 – 04/19	<p>LA 1 Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Design West Baton Rouge Parish, Addis, LA. Bridget assisted Brin with the crosswalk study by pulling and formatting the crash data. She also assisted Brin with the crash analysis and formatting the findings.</p>
10/17 - 07/18	<p>Travel Demand Model Update: Southeast Louisiana Travel Model (New Orleans, LA). Bridget developed base year traffic volumes to calibrate and test of the regional travel demand as part of updating the New Orleans Regional Planning Commission Travel Demand Model in TransCAD. Specifically, Bridget obtained and reviewed the over 4,000 traffic counts (cars / trucks) that were used in the validation of the SELATRAM model to check for consistency, reasonableness, and completeness. She tabulated her results in a spreadsheet that was included in a technical memorandum.</p>
09/17 - 11/17	<p>US 11 (Front St.) at US 190 Bus. (Fremaux Ave.) Traffic Study (St. Tammany Parish, LA). Bridget participated in the development of a Crosswalk Traffic Engineering Study for the City of Slidell as part of improvements to the intersection of US 11 (Front St.) at US 190 Bus. (Fremaux Ave.). Bridget processed raw traffic videos and developed AM and PM peak period turning movement vehicle count figures. She also assisted Brin with a PTV Vistro model for the AM and PM Peaks for the five intersections for capacity analyses as well as progression analyses. She also developed portions of the report.</p>
02/17 - 10/17	<p>Judge Tanner Boulevard at N. Causeway Roundabout Study (St. Tammany Parish, LA). Bridget participated in the development of a Stage 0 Feasibility Study for roundabouts at four intersections in St. Tammany Parish. The scope was developed based on EDSMs VI.1.1.1 / VI.1.1.5 and DOTD Traffic Engineering Manual Section 20.2. Bridget developed traffic turning movement counts for morning and evening peak periods including peak hour factor and heavy vehicle percentages. Growth rates for design year volumes were also developed based on information provided from the TransCAD model. She performed portions of the Sidra unsignalized, signalized and roundabout analyses for implementation and design years and report development.</p>
06/16 - 09/17	<p>H.004490 Stage 0 Roundabout Studies, (Lafayette Parish, LA). Bridget assisted with developing a Stage 0 Feasibility Study for roundabouts at seven intersections in the Lafayette area. The scope was developed based on EDSMs VI.1.1.1 / VI.1.1.5 and DOTD Traffic Engineering Manual Section 20.2. Bridget developed traffic turning movement counts diagrams for peak periods including peak hour factor and heavy vehicle percentages. She developed the speed data analyses as well as assisted with performing Sidra unsignalized, signalized and roundabout analyses for implementation and design years. Bridget also developed several figures that were included in the report.</p>

17. Firm Experience:

Firm name	 Buchart Horn, Inc. ENGINEERS - ARCHITECTS - PLANNERS	Past Performance Evaluation Discipline(s)*	Planning, Traffic
Project name	New Roundabout at LA 931 and Roddy Road	Firm responsibility (prime or sub?)	Prime
Project number	MA-18-10	Owner's name	Ascension Parish
Project location	Gonzales, LA	Owner's Project Manager	Kenny Matassa
Owner's address, phone, email	PO Box 2392, Gonzales, LA 70707, 225.450.1012, kmatassa@apgov.us		
Services commenced by this firm (mm/yy)	07/17	Total consultant contract cost (\$1,000's)	\$629
Services completed by this firm (mm/yy)	02/22	Cost of consultant services provided by this firm (\$1,000's)	\$500

Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)

Firm's Role: BH was selected by Ascension Parish to provide Road Design & Traffic Engineering services for a period of five years (2017-2022) under the MoveAscension program. One of the projects assigned under this program was the intersection improvements and roundabout study/design for the intersection of LA 931 and Roddy Road.

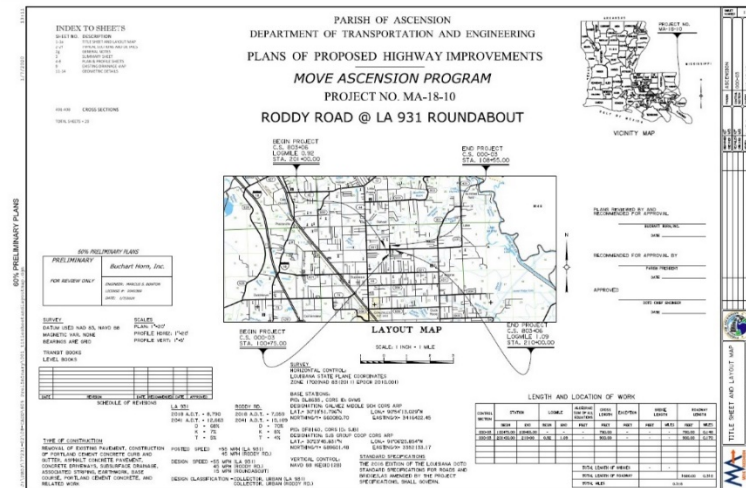
Although Roddy Road is a Parish roadway, the fact that it intersects with a State Route triggered the need for LADOTD review and approval. BH successfully implemented the Traffic Engineering Process and Report in the study and design and has received preliminary approval from LADOTD for a project permit at this location.


This intersection historically involved high frequency and high severity crashes. BH provided design services for a new single-lane asphalt roundabout at the intersection of LA 931 and Roddy Road in Gonzales, LA. Services included preparing a roundabout report (crash analysis, cost-benefit analysis, traffic analysis, speed study, safety analysis), electrical lighting design, subsurface drainage, permit application, preliminary and final design plans, specifications, special provisions, construction estimates, and engineering calculations. The design complies with state and federal guidelines.

In addition to our Prime responsibilities on other MoveAscension program projects, BH has made multiple contributions to the as a project-specific subconsultant within various Teams.

Relevant Services: • Roadway Design • LADOTD Minimum Design Guidelines • TEPR Compliant Study • Roundabout Report and Design • Historical Crash Analysis • Construction Cost Estimate • Traffic and Safety Study • Agency Coordination

Firm Members Involved: Jimmy Dickerson, Joseph Mingo, Kevin Gaspard, Hugo Leiva, Cal Joy, Karren Atchison



Firm name	 BUCHART HORN Buchart Horn, Inc. <small>ENGINEERS - ARCHITECTS - PLANNERS</small>		Past Performance Evaluation Discipline(s)*	Planning, Traffic
Project name	New Roundabout, Parish Road 929 at Parker Road		Firm responsibility (prime or sub?)	Prime
Project number	81054-08	Owner's name	Ascension Parish	
Project location	Prarieville, LA		Owner's Project Manager	Marco Gonzalez
Owner's address, phone, email	1100 Webster Street, Donaldsville, LA 70804, 205.641.5377, marco.gonzalez@volkert.com			
Services commenced by this firm (mm/yy)	07/17	Total consultant contract cost (\$1,000's)	\$486	
Services completed by this firm (mm/yy)	08/18	Cost of consultant services provided by this firm (\$1,000's)	\$365	

Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)

Firm's Role: BH provided feasibility study and design services for a roundabout at the intersection of Highway 929 and Parker Road. The project consisted of two phases; the first was LADOTD, Parish, and pipeline utility coordination to determine feasibility and receive written approvals. The second was design and permitting. BH evaluated conceptual alternatives for the intersection in order to improve capacity and/or safety. Upon acceptance and authorization from LADOTD and the pipeline companies, BH provided the design and specifications for public bidding.

Firm Members Involved: Jimmy Dickerson, Joseph Mingo, Kevin Gaspard, Karren Atchison, Cal Joy, Hugo Leiva



Firm name	 Buchart Horn, Inc. <small>ENGINEERS - ARCHITECTS - PLANNERS</small>		Past Performance Evaluation Discipline(s)*	Planning, Traffic
Project name	US 425 Roundabout Design, Retainer Contract for Highway Safety, Sigma Consulting Group, Inc./LADOTD, Rayville, LA.		Firm responsibility (prime or sub?)	Sub
Project number	44-2710 / H.010204.5	Owner's name	Sigma Consulting Group, Inc.	
Project location	Rayville, LA	Owner's Project Manager	Greg Sepeda	
Owner's address, phone, email	10305 Airline Hwy, Baton Rouge, LA 70816, 225.298.0800, gsepeda@sigmacg.com			
Services commenced by this firm (mm/yy)	11/13	Total consultant contract cost (\$1,000's)	\$5100	
Services completed by this firm (mm/yy)	08/19	Cost of consultant services provided by this firm (\$1,000's)	\$226	

Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)


Firm's Role: BH was responsible for the design and completion of preliminary and final plans for a six-legged roundabout at US 425 at Louisa/Julia Street, Grimshaw Street/Christian Drive in Rayville, LA, as a task order for the LADOTD Retainer for Highway Safety Statewide. The existing intersection is surrounded by commercial development, several drives and a truck stop, less than 300 feet from I-20. The project was identified for safety improvements after identification and evaluation of correctable crashes and operational needs.

The multi-lane concrete roundabout includes a frontage road and a turnout allowing truck traffic access to the frontage road. BH also designed the stormwater drainage system for the roadway improvements and drainage plan and profile sheets for open-swale and subsurface conveyances are included in the plans.



The design of this project includes a title sheet and layout map, typical sections and details, general notes, summary sheets, plan and profile sheets, drainage plan and profile sheets, existing drainage map, design drainage map, summary of drainage structures sheet, geometric details, suggested graphical grades, suggested striping and permanent signing layout, suggested sequence of construction and construction signing layout, signage summary sheet, erosion control plan, right-of-way map, special detail sheets, and cross sections..

Firm Members Involved: **Jimmy Dickerson, Joseph Mingo, Karren Atchison**

Firm name	 BUCHART HORN ENGINEERS - ARCHITECTS - PLANNERS	Buchart Horn, Inc.	Past Performance Evaluation Discipline(s)*	Planning, Traffic
Project name	Harrison Avenue Improvements – Design and Study, Covington, LA		Firm responsibility (prime or sub?)	Prime
Project number	17-047	Owner's name	St. Tammany Parish	
Project location	Covington, LA	Owner's Project Manager	Truman Sharp III	
Owner's address, phone, email	PO Box 628, Covington, LA 70434, 985.898.2557, tdsharp@stpgov.org			
Services commenced by this firm (mm/yy)	03/17	Total consultant contract cost (\$1,000's)	\$3,127 (to date)	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)	\$1,621 (to date)	

Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)

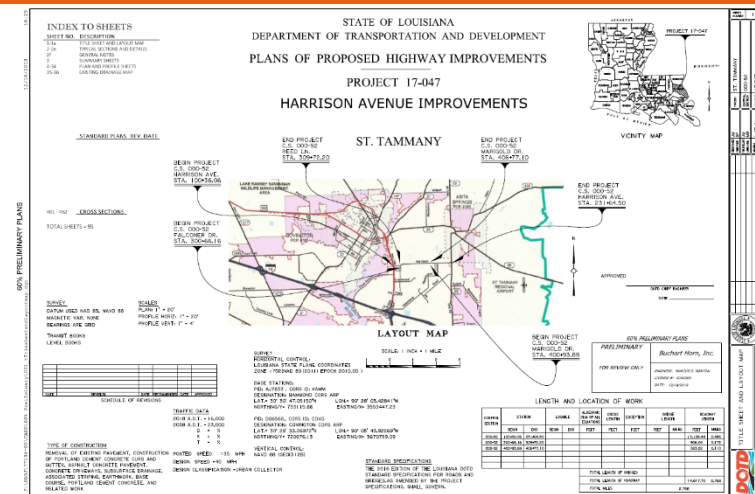
Firm's Role: Harrison Avenue is a 2.49 mile, two-lane, undivided Major Urban Collector with no shoulders, open ditch drainage, and a posted speed of 35 mph. It serves as a vital transportation link between US 190 and LA 59. The area has experienced significant levels of residential development in recent years as numerous subdivisions have been constructed along the corridor, leading to congestion. More than 15,000 vehicles travel the roadway daily and many residents only have access to their homes by way of Harrison Avenue. The traffic volumes along the corridor, in conjunction with the existing roadway conditions, no shoulders, and open ditches, increases the potential for unsafe roadway conditions contributing to numerous crashes along the corridor.

BH was selected by the Parish to conduct a feasibility study and subsequent design and construction management of recommended improvements. Our staff evaluated two proposed alternates for the reconstruction of Harrison Avenue and is now providing design services for the selected concept – a two-lane roadway with raised median, sidewalks, and subsurface drainage.

Improvements will include **two new roundabouts**, right-in/right-out turns at street intersections, designated U-turn locations and designated left turn locations with bulb outs. The design will include a title sheet and layout map, typical sections and details, general notes, summary sheets, plan and profile sheets, drainage plan and profile sheets, existing drainage map, design drainage map, summary of drainage structures sheet, geometric details, suggested graphical grades, suggested striping and permanent signing layout, suggested sequence of construction and construction signing layout, signage summary sheet, erosion control plan, waterline relocation plan, right-of-way map, special detail sheets, and cross sections.

Services provided will include support for Right-of-Way acquisition, Wetland Delineation, Jurisdictional Determination, USACE Section 404 and LADOTD Permitting.

Firm Members Involved: Jimmy Dickerson, Cal Joy, Kevin Gaspard, Karren Atchison, Brian Young, Matt March, Jeff Stone, Andy Pinkley, Hugo Leiva, Joseph Mingo, David Britner



Firm name	WSP WSP USA, Inc.		Past Performance Evaluation Discipline(s)*	Bridge
Project name	Inspection and Load Rating Contract		Firm responsibility (prime or sub?)	Prime
Project number	188658	Owner's name	South Carolina Department of Transportation, Districts 2 and 7	
Project location	South Carolina		Owner's Project Manager	Emily Bickley, PE
Owner's address, phone, email	955 Park Street, Columbia, SC 29202, 803-737-1053, BickleyEJ@scdot.org			
Services commenced by this firm (mm/yy)	08/19	Total consultant contract cost (\$1,000's)		\$14,300
Services completed by this firm (mm/yy)	12/22	Cost of consultant services provided by this firm (\$1,000's)		\$14,300

Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)



Firm's Role: In this comprehensive project, we undertook the load Rating of 2558 structures in South Carolina Districts 2 & 7, a task that included 14 intricate structures (including movable and trusses) spanning the Savannah River. Our team at WSP initiated the project by examining a plethora of documents, including plans, inspection reports, prior load ratings, and any other pertinent bridge-related records. Next, we completed site assessments of these structures. In an innovative approach, we harnessed the capabilities of drones for the site assessments. This approach considerably reduced the time required for traffic control and access equipment, thereby leading to substantial cost savings for SCDOT. We updated the records for each bridge, diligently incorporating all the collected data. The load ratings were meticulously calculated in strict accordance with the South Carolina Department of Transportation's (SCDOT) Load Rating Guidance Document (LRGD) and the contemporary standards laid out by the American Association of State Highway and Transportation Officials (AASHTO), using AASHTOWare BrR software. Furthermore, our team at WSP conducted an impressive total of 520 material and non-

destructive tests (NDT), along with 160 load tests. These load tests involved the instrumentation of bridges with strain gauges and the application of calibrated truck loads. The data gathered through these tests played a pivotal role in constructing accurate structural models, effectively increasing load capacity, and eliminating load restrictions on bridges throughout the state. Notably, these enhancements were not limited to the tested bridges but were extrapolated to **benefit over 700** similar bridges within SCDOT's inventory.#

Load Ratings 2558; Load Tests 160; Material Testing and NDT 520 Bridges


As part of our commitment to efficiency and real-time data sharing, WSP developed an innovative Geographic Information System (GIS) platform. This platform facilitated swift data collection in the field and seamless real-time data transfer among WSP personnel, SCDOT staff, and other collaborating consultants. This technological advancement streamlined the entire project, enhancing communication and data accessibility throughout its duration.

Key Staff: Michael Craig; Arunava Saha; Casey Howard; Mark Pearson; William Mitchell

“WSP has demonstrated organization, technological efficiencies, and technical expertise during this project. WSP's experience in site assessments, load ratings, load testing, material testing, and everything in between have taken a very difficult project and provided us with many solutions to common issues through innovative ideas and processes.”

Emily Bickley, PE SCDOT Project Manager



Firm name	 WSP USA, Inc.		Past Performance Evaluation Discipline(s)*	Bridge
Project name	Engineering Services for Cable-Stayed Structures, GA		Firm responsibility (prime or sub?)	Prime
Project number	188658	Owner's name	Georgia Department of Transportation	
Project location	Georgia		Owner's Project Manager	Robbie Koirala, PE
Owner's address, phone, email	935 East Confederate Avenue, Building 24, Room 408, Atlanta GA, (404)635-2893, rkoirala@dot.ga.gov			
Services commenced by this firm (mm/yy)	06/16	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)		\$3,000

Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)

Firm's Role: Under this task-order contract, our scope of work has encompassed various critical aspects:

- 1) **Load Rating of Sidney Lanier and Talmadge Cable-Stayed Bridges:** We conducted a thorough evaluation, including in-depth inspections, internal guide pipe assessments, dampening system analyses, and forced vibration testing, to determine the current condition and recommend necessary repairs. Detailed 3-D numerical models were developed to analyze the bridges for load rating of the superstructure and substructure. The load rating analysis incorporated inspection findings.
- 2) **Special Member Inspection of Sidney Lanier Bridge:** We conducted a meticulous inspection of 49 cable stays within deck-level guide pipes. Notably, 25 of these showed significant deterioration.
- 3) **Routine Safety Inspection of Talmadge Memorial Bridge:** This comprehensive inspection involved a visual assessment of all aspects of the bridge, including the bridge deck, tower interiors and exteriors, substructure, cable exteriors, and various support structures like light poles and overhead signs.
- 4) **Repair Plans for Sidney Lanier Bridge:** We addressed substantial deficiencies linked to excessive cable vibration, including issues like cracked stay piles, neoprene bearing failures, and corrosion of stay strands. Bearing replacement included bridge jacking analysis and design.
- 5) **Dampening Retrofit Plans for Sidney Lanier Cable Stays:** Our team designed a retrofit solution to mitigate excessive cable vibration, incorporating an external viscoelastic damping system.
- 6) **Dampening Retrofit Plans for Talmadge Memorial Bridge:** Similar to task #4, we formulated dampening retrofit plans to address vibration concerns on this bridge.
- 7) **In-Depth Inspection of Talmadge:** Our scope involved a comprehensive visual inspection and repair recommendations of all primary structural elements.
- 8) **Operation and Maintenance (M&O) Manual for Sidney Lanier and Talmadge Bridges:** We developed a comprehensive manual to guide GDOT's staff in maintaining these bridges effectively throughout their service life.

Relevant Features:

- *Load rating of two cable-stayed bridges incorporating inspection findings*
- *Dampening retrofit plans for Talmadge Memorial Bridge*
- *Repair of Sidney Lanier Bridge including jacking and bearings replacement*



WSP was asked by GDOT to present this project at the 2023 Southeast Bridge Preservation Conference.

Key Staff: Michael Craig; Hatem Seliem; Arunava Saha; Casey Howard; William Mitchell

Firm name	wsp WSP USA, Inc.		Past Performance Evaluation Discipline(s)*	Bridge
Project name	Fracture-critical Member Bridge Inspections, Texas		Firm responsibility (prime or sub?)	Prime
Project number	188359	Owner's name	Texas Department of Transportation (TxDOT)	
Project location	Statewide, Texas		Owner's Project Manager	Lu Trujillo, PE
Owner's address, phone, email	125 E. 11th Street, Austin, TX 78701, (512) 416-2075, Lu.Trujillo@TxDOT.gov			
Services commenced by this firm (mm/yy)	06/16	Total consultant contract cost (\$1,000's)		\$10,000
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$2,8964

Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)

Firm's Role: WSP is providing statewide fracture-critical inspection, tunnel inspection and ultrasonic bridge pin testing services for the TxDOT on a work authorization basis. This was a renewal of a previous \$4,000,000 Fracture-Critical Member Bridge Inspection contract with TxDOT. Services include: reviewing previous inspection reports and load ratings, completing the necessary inspection activities, preparing inspection reports that identify the condition evaluation of the structure, recommending maintenance activities, reporting critical findings, generating any requested load ratings, and updating database records, where necessary. To date, WSP has performed inspections on numerous structure types, including cable-stayed, tub girders, through and pony trusses, plate caps, box caps, railroad flat cars, and two or three-girder framing systems. Services have included non-destructive testing (dye penetrant and magnetic particle) and ultrasonic testing of fracture-critical pins, performed by our Level II certified pin testing technicians. Traditional access equipment utilized in conducting the inspections includes boom lifts, bucket trucks, and under-bridge inspection vehicles. Throughout the contract, WSP utilized innovative access techniques to eliminate or reduce the need for costly traffic control, including the use of technical climbing techniques, rope access, and novel aerial lift equipment (bucket boats).


WSP has also completed over two-hundred load ratings. Load ratings were performed based on the 2020 TxDOT Load Rating Guide and AASHTO Manual for Bridge Evaluation, 3rd Edition. The load rating software used was AASHTO BrR (Version 6.8.4 and 7.0). The Inspections and load ratings have included reinforced concrete slabs, steel floor system superstructures, steel rolled and plate girders, and prestressed concrete girders for simple and continuous spans. Under this contract, TxDOT requested WSP's assistance to perform load testing of 14 culverts and systematic program to extrapolate the data obtained to provide a method of **load posting avoidance** across the entire inventory of **14,000+ culverts**. WSP also assisted with emergency post-Hurricane Harvey bridge inspections in the Houston area. As a testament to WSP's depth of available qualified resources, 8 inspection teams were quickly mobilized to perform these emergency assessments; WSP completed 340 post-hurricane emergency assessments in 1 week.

TxDOT FC Contract Stats to Date:

- Total FC Bridges: 392
- Total FC Elements: 1043
- Total Truss Spans:
- 144 (includes deck, pony and thru)
- Pins UT Tested: 136
- Total Bent Caps: 355 (includes plate and box caps)
- Total FC Girder Spans: 299 (includes plate, box and railroad flat cars)
- 200 Load Ratings
- Load Testing

Key Staff: Michael Craig; Casey Howard; William Mitchell



Firm name	 Vectura Consulting Services, LLC		Past Performance Evaluation Discipline(s)*	Traffic
Project name	Roundabout: US 171 at Boone St.		Firm responsibility (prime or sub?)	Sub
Project number	H.011909.5	Owner's name	Louisiana Department of Transportation and Development (LADOTD)	
Project location	Vernon Parish, LA		Owner's Project Manager	Josh Harrouch
Owner's address, phone, email	PO Box 94245 Baton Rouge, LA 70804-9245, (225) 242-4640, Joshua.Harrouch@LA.GOV			
Services commenced by this firm (mm/yy)	04/17	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)		\$82

Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)

Project Description: Vectura designed temporary traffic signal plans as part of the sequence of construction plan for a roundabout construction at the intersection of US 171 at Boone Street in Leesville, LA. The purpose of the project was to replace the existing signalized intersection with a multilane roundabout at Boone Street.

Temporary Traffic Signal Design

Vectura performed following design tasks to develop temporary traffic signal plans


- Detailed study of sequence of construction plans to determine the optimal traffic signal operation and required traffic signal equipment for each sequence of construction phase
- Reviewed potential access issues for all the impacted driveways / streets along the project area for each sequence of construction phase
- Developed multiple traffic signal timing plans by time of day for each sequence of construction phase to maintain progression along main corridor
- Developed temporary signal plans including pole and span wire layout, signs, striping, power source, signal timings by time of day, vehicle detection, signal head placement, wiring diagram, pole height calculations, clearance calculations, quantities, construction cost estimate
- Coordinated with DOTD Traffic Section and District Traffic Engineer

Quality Control Review

Vectura provided Quality Control review of signing and striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the Manual on Uniform Traffic Control Devices (MUTCD) details on roundabouts.

Personnel Utilized on this project: **Brin Ferlito, Reece Rodrigue, Laurence Lambert, and Bridget Robicheaux**



Firm name	 Vectura Consulting Services, LLC		Past Performance Evaluation Discipline(s)*	Traffic
Project name	East Baton Rouge Parish MOVEBR Program		Firm responsibility (prime or sub?)	Sub
Project number	CP-No. 19-CS-HC-0001	Owner's name	East Baton Rouge Parish	
Project location	Baton Rouge, LA		Owner's Project Manager	Tom Stephens, PE
Owner's address, phone, email	1100 Laurel Street Baton Rouge, LA 70802, (225) 389-3186 ext 5634, TStephens@brla.gov			
Services commenced by this firm (mm/yy)	07/19	Total consultant contract cost (\$1,000's)		N/A
Services completed by this firm (mm/yy)	12/22	Cost of consultant services provided by this firm (\$1,000's)		\$873

Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)

Project Description: As part of the East Baton Rouge Parish MOVEBR (\$912 Million Dollar) Program, Vectura currently provides traffic engineering services for all Capacity Projects. Vectura routinely collaborated with EBR Parish and DOTD Stakeholder such as Section 27, Safety Section, and DOTD District 61. The primary task was to peer review all traffic-related deliverables from consultants for 25 capacity projects to date. Submittal review in various stages included but not limited to the following:

Scope: Purpose and need, contract scopes, manhours and fees

Data Collection: Raw tube counts, peak period determination, signalized / unsignalized intersection turning movement counts, unmet demand, explanation for any count discrepancies, speed data, peak period observations, geometric field documentation, sight distance, warrants analyses

Design Year Volume Development: Travel Demand Model data, Growth rate methodologies in accordance with NCHRP 765, design year volume development

Existing and No Build Analyses

- HCS, Synchro, SIDRA, VISSIM, analyses for existing and No Build conditions based on traffic volumes, lane usage, truck percent, required SIDRA roundabout settings, speed, and Traffic Signal Inventory form information
- CATScan, collision diagrams, conflict points, crash analyses report as per DOTD standards
- Defined problems

Tier 1: Preliminary high-level list of alternatives based on defined problems and established comparison criteria.

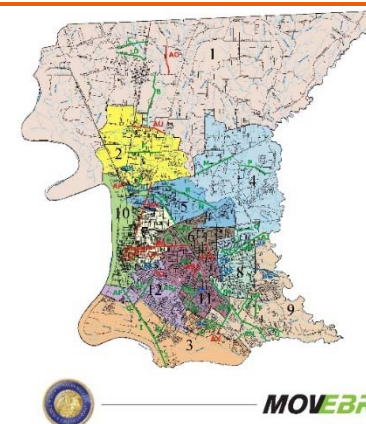
Build Year Alternative Analyses


- Reviewed traffic volume redistribution, alternative conceptual layouts included access management, restricted median openings, signalized /unsignalized intersections, median U-turns at existing signal locations, RCUT intersections, and roundabouts
- Turn lane calculations, AutoTURN, construction cost estimates

Design

- Confirmed design plans matched recommendations in the Traffic and Design Studies
- Reviewed construction plans including geometric layout, striping, signs, roundabout and traffic signal design
- Plan in Hand, coordinated with EBR TED, DOTD, utilities, consultant team

Personnel Utilized on this project: Brin Ferlito, Laurence Lambert, Bridget Robicheaux, Reece Rodrigue, and Kristen Farrington



Firm name	 Vectura Consulting Services, LLC		Past Performance Evaluation Discipline(s)*	Traffic
Project name	LA 30 Roundabouts at Tanger I-10		Firm responsibility (prime or sub?)	Sub
Project number	H.010960.5	Owner's name	Louisiana Department of Transportation and Development (LADOTD)	
Project location	Ascension Parish, LA		Owner's Project Manager	Josh Harrouch
Owner's address, phone, email	PO Box 94245 Baton Rouge, LA 70804-9245, (225) 242-4640, Joshua.Harrouch@LA.GOV			
Services commenced by this firm (mm/yy)	04/17	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)		\$153

Describe the project including the firm's role and members involved. (Highlight members to be used in this proposal.)

Project Description: Vectura designed temporary traffic signal plans that will be implemented during construction of the three roundabouts 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 the Tanger Boulevard. Vectura also provided Quality Control review of construction plans.

Temporary Traffic Signal Design

Vectura performed following design tasks to develop temporary traffic signal plans

- Detailed study of sequence of construction plans to determine the optimal traffic signal operation and required traffic signal equipment for each sequence of construction phase
- Reviewed potential access issues for all the impacted driveways / streets along the project area for each sequence of construction phase
- Developed multiple traffic signal timing plans by time of day for each sequence of construction phase to maintain progression along main corridor
- Developed temporary signal plans including pole and span wire layout, signs, striping, power source, signal timings by time of day, vehicle detection, signal head placement, wiring diagram, pole height calculations, clearance calculations, quantities, construction cost estimate
- Coordinated with DOTD Traffic Section and District Traffic Engineer

Quality Control Review

Vectura provided Quality Control review of signing and striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the Manual on Uniform Traffic Control Devices (MUTCD) details on roundabouts.

Personnel Utilized on this project: **Brin Ferlito, Reece Rodrigue, Laurence Lambert and Bridget Robicheaux**



18. Approach and Methodology:

The successful completion of the LA 44: Pelican Point Roundabout and Widening project will require an experienced, multidisciplinary team that is familiar with the LADOTD's projects and standards. Our strong team of professionals has in-depth knowledge of traffic and planning, roundabout design, bridge design and project management. We have performed numerous transportation projects in Louisiana like the project that will be assigned under this contract.

Our team was carefully chosen for their experience and qualifications as well as their certifications. Our team will be available to begin working on this project upon assignment and contract execution to ensure the project's design and construction requirements remain on schedule. Our team includes engineers with years of experience in the study, design, and construction of roundabouts, roadways, and bridges. The BH team was carefully selected to include Vectura Consulting Services, LLC who will provide support for traffic and the Transportation Management Plan (TMP); and WSP USA, Inc. for bridge evaluation and bridge design services.

BH has been in business for nearly 80 years and has maintained a local presence in Louisiana for more than 50 years. Our Louisiana staff has considerable experience with successfully delivering transportation projects at the state and local level including roundabouts. The BH team's extensive experience as well as local and regional resources will be utilized to deliver this project on-schedule and within budget.

Project Specific: LA 44 at Pelican Point is located just outside the city limits of Gonzales, LA in Ascension Parish. A multi-lane roundabout and widening of LA 44 will be designed from the LA 44 widening and roundabout at LA 941 (H.010909) southern project limits to the shopping center south of the Pelican Point intersection. LA 44 is currently a 2-lane road with no passing zones and 1'-5' paved shoulders. The posted speed limit is 55 mph. The existing LA 44/Pelican Point intersection is a T-intersection with turn lanes and traffic movements controlled by a signal. The LA 44/Pelican Crossing Drive intersection is offset to the north by approximately 250 feet and is stop controlled on the Pelican Crossing Drive approach. The northern project limits are the existing 2-lane bridge over the Panama Canal which was designed to LADOTD standards. Along the east side of the project is an open ditch approximately 2000 feet long with safety end treatments on the culverts. There appears to be adequate ROW for the widening. South of the LA 44/Pelican Point intersection is the shopping center where the project limits terminate with a southbound right-turn lane into the shopping center. LA 44 is classified as a major collector urban roadway.

Understanding the Project Scope: The safety of the motoring public should be paramount in any project design. The BH team includes highway safety professionals who, in keeping with LADOTD's vision of Destination Zero Deaths (DZD), will work with the LADOTD project manager and team to ensure that safety is considered in all phases of project design.

This project involves the construction of a multi-lane roundabout at LA 44 and Pelican Point Parkway, widening of LA 44 from a 2-lane to a 4-lane roadway for approximately 1800 feet and the evaluation and design for the bridge over the Panama Canal. After a site visit on January 31st, three key aspects of the project were identified: **widening and possible replacement of a 2-lane bridge over the Panama Canal, the intersection of Pelican Crossing Drive approximately 250 feet north of the proposed roundabout, and the southern terminus of the project.** Understanding the scope and working with the LADOTD Project manager and team is a key factor to keeping this project on schedule and on budget. Since communication is key on any project, the BH Project Manager will ensure that communication takes place on a continuous basis.

BH has developed a company-wide Quality Management Plan. This plan establishes that quality is inherent in everything we do and guides the delivery of our products and services. BH's Quality Management Plan describes the general guideline procedures that are in place at BH and are followed by all BH personnel. Project-specific Quality Management Plans will be developed for each and every project for which BH receives a Notice-to-Proceed, if required. It is our goal to provide our clients with quality projects. By following our Quality Management Plan, BH produces projects that meet and/or exceed our client's expectations.

Roadway Services (Preliminary and Final Plans): BH's teams first steps in the design and plan development phase will be to gather and study all existing data pertinent to this project. BH is aware of the importance of reviewing the supplied documents from LADOTD because ensuring the accuracy of these documents will directly affect the schedule, budget, and plan development. Another important step for BH's team will be to coordinate a Kick-off meeting for receiving a clear understanding of the projects scope.

The BH teams has a great working relationship with each other and realizes continuous communication between the team members will be a key to the success of this project. The BH roadway plan development and submittals will directly correlate to WSP's bridge design plans and will need to be combined for a streamline submittal.

The BH team will follow the required LADOTD process for submittals (60%, 90%, 100% Preliminary Plans and 60%, 95% and 100% Final Plans). Each submittal, as per LADOTD's project manager and team will be submitted through the utilization of Project Wise. BH's team has extensive experience with the use of Project Wise through previous LADOTD projects.

BH's preliminary plan's objective is to determine a roundabout location that is safe, understandable, and fits in the context of the surrounding area while making sure ROW acquisition and utility relocations are minimized. Furthermore, the intersection of Pelican Crossing Drive just 250 feet north of the proposed roundabout location will need to be analyzed to understand if realignment is necessary during the design of the roundabout. Autoturn and Fastest Path will be used when designing the roundabout to make sure it meets current LADOTD standards as well as creating the safest environment possible for the user. BH will communicate with the LADOTD project manager and team to determine an exact location for the southern terminus. The main entrance to the shopping center has a southbound right-turn lane which will be an ideal location for the transition to one-lane because of the already established lane. The preliminary plans will also identify if any additional ROW is needed, but from BH's on-site visit, LADOTD has acquired sufficient ROW for this project. BH's team will use the LADOTD Road Design Manual and the AASHTO Geometric Design of Highway and Streets throughout the plan development process.

The BH team will not proceed to final plans until notified that environmental clearance has been obtained. BH's final plans will include all finalized designs, cost estimates, QA/QC checklists, constructability/biddability form, and any additional forms required by LADOTD. BH understands the requirements for hearings, public meetings, and plan reviews based on the detailed discussion in the kick-off meeting and continuous communication throughout the project. BH's team understands the importance of maintaining traffic during construction and will have a detailed Traffic Controls plans as well as a TMP created by Vectura Consulting Services, LLC. Vectura will follow EDSM VI.1.1.8 that outlines what is required for a TMP. Vectura will coordinate with DOTD to obtain traffic volume and safety data for traffic study to perform safety analysis and alternative route analysis. If historic data is not available, Vectura will follow the Traffic Study Scope of Services as outlined on the DOTD Traffic Engineering website. Staff from Vectura have worked closely with the staff of DOTD through the development and implementation of the TEPR process. Vectura will utilize this experience to navigate the TEPR process to arrive upon the optimum management of traffic. Along with specifying the correct TTC Details, Vectura will coordinate with the bridge / road designers on a Work Zone Impact Management Strategy document to minimize risk and delays to the travel public.

Bridge Services: Existing Bridge: The bridge is in the City of Gonzales carrying traffic of state road LA 44 over Panama Canal. The bridge was built in 2008 and designed for a vehicular live load of HS-20. The superstructure is a five-span, cast-in-place reinforced concrete slab with a span length of 20 ft, and total bridge length of 100 ft. The bridge is two-way traffic with two, 12-ft lanes and a total bridge width of 39 ft.

Task 1: Review of As-Built Plans & Existing Documents: The first task in the bridge evaluation process involves methodically collecting and reviewing essential documents. This task is critical as the accuracy and comprehensiveness of these documents directly affect the evaluation's outcomes. All gathered documents will be electronically submitted to LADOTD via the AssetWise/ProjectWise platform, ensuring efficient and organized digital dissemination for easy access and tracking.

Task 2: In-Depth Investigation: The WSP inspection team, led by Casey Howard, PE, NDT II (MPR 5), and William (Coley) Mitchell, CBI, NDT II, will carry out the in-depth site investigations. Both leaders are experienced senior bridge inspectors with NHI certification in both routine and fracture critical bridge inspections. The team will coordinate with relevant stakeholders for comprehensive site visits. Howard and Mitchell have completed all necessary work zone training, equipping them with the knowledge and skills required for thorough and safe site inspections.

Task 3: Load Rating Analysis of Existing Bridges: WSP will establish a load rating methodology in accordance with the guidelines outlined in the LADOTD BDEM and Bridge Design Technical Memorandum No. BDTM.96. This methodology will be formally presented to the LADOTD PM before beginning the load rating analysis. For the analysis of existing superstructures, our primary tool will be AASHTOWare Bridge Rating (BrR), a widely recognized and utilized software for bridge load rating assessments. For existing substructures, we will employ the pre-approved Leap Concrete (RC Pier) software, supported by our in-house Mathcad and Excel calculations. If the widening of existing bridges is determined to be the viable option and cannot be efficiently analyzed using BrR, a refined analysis will be necessary. This will involve simulating the interaction between new and existing structures, as well as the incorporation of construction staging. Such an analysis will be conducted using one of the pre-approved finite element analysis (FEA) software tools, such as Midas Civil or CSI Bridge. Additionally, for these widened structures, WSP will generate influence lines for critical sections of the controlling members. The results of the influence lines will be documented using the LADOTD COMPSTIL2 standard input file format.

Task 4: Bridge Evaluation Report: WSP will produce an in-depth bridge evaluation report. This report will not only cover the fundamental aspects of bridge evaluation but also benefit from the team's vast experience in bridge assessments and repairs. The report will include: i) thorough evaluation of existing bridge, supported by all necessary documentation, ii) well-founded recommendations on whether to widen or replace the existing bridge, including the rationale behind these suggestions, and iii) detailed results from the load rating analysis of the existing bridge. A crucial aspect of evaluating the feasibility of widening existing bridge is adhering to the LADOTD BDEM, which requires that all bridges in Louisiana must be designed to withstand the Louisiana Design Vehicle Live Load 2011 (LADV-11), which is a significant increase (greater than a 1.30 factor) over the AASHTO LRFD HL-93 notional design load. Given that the current bridges were designed for an HS-20 vehicular live load, significant flexural strengthening will be necessary to meet the increased demands of LADV-11.

Phase II: Design of New Bridges

Task 5: Design Criteria: A detailed bridge design criteria will be developed in accordance with the latest revision of LADOTD BDEM, and applicable Bridge Design Technical Memoranda (BDTM). The design criteria will be submitted to LADOTD PM for review and approval.

Task 6: Preliminary Construction Plans: The Preliminary Plans' objective is to determine the most economical structures for widening or replacement. Further, if widening of the existing bridge is the feasible alternative, possible strengthening techniques will be discussed to identify the most feasible option given the increased live load demand and long-term durability. The preliminary plans will identify the preliminary construction sequence and right-of-way (RoW) taking lines, if necessary. The 100% Preliminary Plans will be approved by LADOTD PM once verified that all comments from Plan-in-Hand (PIH) meeting have been addressed.

Task 7: Final Construction Plans: Final Plans will include detailed bridge structure plans, finalize construction sequence and staging, and update construction cost estimates. Final QA/QC checklists and constructability review forms will be completed after the review of the 60% Final Plans by LADOTD Bridge Design Section.

Task 8: Load Rating Analysis of As-Designed Bridge: similar to load rating of the existing bridge, AASHTOWare Bridge Rating (BrR) software will be utilized for rating the superstructures in case of bridge replacement. However, in case of widening existing bridge, refined analysis might be deployed in case that BrR software is proven to be inefficient. Further if refined analysis is to be utilized, influence lines will be generated for the critical section(s) of the controlling member(s).

Task 9: Special Provisions and Non-Standard Pay Items: Special provisions will be developed for work that is not covered by the 2016 Louisiana Standard Specifications for Roads and Bridges. Similarly new pay items that are not listed in the latest revision of LADOTD Standard Pay Items will be coordinated with LADOTD PM to be incorporated.

Task 10: Construction Cost Estimate: The preliminary construction cost estimate will be developed and submitted along with the 100% Preliminary Plans. The contingency to be used for the preliminary cost estimate will be coordinated with LADOTD PM. The cost estimate will be updated with every submittal of the Final Plans. LADOTD Bid History will be utilized to develop the construction cost estimate considering projects of the similar nature and size, as possible.

Project Schedule & Project Expertise: BH’s team understands this project needs to be complete with final plans submitted within the 2-year contract time. The schedule will keep track of milestone submittals (60%, 90% 100% preliminary plans and 60%, 95% 100% final plans) as well as meetings and progress schedules along the way. BH’s team has completed numerous successful transportation projects across the southeast and has distinct expertise in roundabout design using LADOTD approved software (e.g., Microstation, InRoads, HYDR2009) to streamline submittals. The BH team has widespread knowledge in plan preparation and QA/QC to deliver preliminary and final design plans on time. We have assembled a full-service Team that provides considerable depth of talent for each of the key project discipline categories. To ensure our ability to meet the schedule, we support our design and planning professionals with engineers, designers, technicians, and support staff. These additional resources enable us to optimize our efforts and streamline our work schedules.

Project Schedule

LA 44: Pelican Point Roundabout and Widening																			
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Project Plan Development																			
Scoping and Project Work Plan																			
Kickoff Meeting																			
Review Supplied Information																			
60% Preliminary																			
90% Preliminary																			
100% Preliminary																			
60% Final																			
90% Final																			
95% Final																			
100% Final																			



19. Workload:

Firm(s)	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project name	Remaining Unpaid Balance**
Buchart-Horn, Inc.	Environmental	H.005257, FAP 9902(518), 700-99-0302	Houma-Thibodaux to I-10 Corridor Environmental Impact Statement	\$3,284
Buchart-Horn, Inc.	Environmental	H.009153.2, FAP H009153	US 84 Improvements	\$9,574
Buchart-Horn, Inc.	Bridge	44-11353, H.0110309.5-2	MacArthur Interchange Completion-Phase II Lighting	\$113,440
Buchart-Horn, Inc.	Bridge	44-11353, H.010616.5-2	New I-20 Overpass over LA 544 Lighting	\$25,156
Buchart-Horn, Inc.	Bridge	44-11353, H.014302.6	US 165 Roadway Lighting	\$145,883
Buchart-Horn, Inc.	Bridge	44-11353, H.010319.5	I-110 Lighting from North Street to Plank Road	\$7,444
WSP USA, Inc	Bridge	H.010253.5	ELEC. & MECH. ENG. ON CALL TO9	\$109,387
WSP USA, Inc	Planning	H.003931.5	LADOTD P3 Advisory Services On-Call TO2	\$40,552
WSP USA, Inc	Planning	H.003931.5	LADOTD P3 Advisory Services On-Call TO2	\$884,763
Vectura Consulting Services, LLC	Traffic	44-17293, H.010616	I-20: LA 544 Overpass Replacement	\$74,429
Vectura Consulting Services, LLC	Traffic	44-5484, H.005168.2	New Orleans Rail Gateway Avondale EA	\$92,995
Vectura Consulting Services, LLC	CE&I/OV	44-20018, H.007160	EBR Computerized Traffic Signal, Ph VB	\$33,910
Vectura Consulting Services, LLC	Traffic	H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	\$14,740

Vectura Consulting Services, LLC	Traffic	4400021519, H.012030.5	KCS RR Overpasses HBI	\$572
Vectura Consulting Services, LLC	Traffic	4400023075, H.013522	S. Lewis Street Widening	\$7,499
Vectura Consulting Services, LLC	ITS	4400016364, H.015136.4	Northshore Regional ITS Architecture Update	\$11,421
Vectura Consulting Services, LLC	ITS	4400017922, H.012845.1	C/AV Team and Working Group Support	\$13,949
Vectura Consulting Services, LLC	ITS	44000020058, H.011507.1	Monroe Phase 3 SEA	\$29,217
Vectura Consulting Services, LLC	Traffic	4400018271, H.014746.5	LA 383 Stage 0 Corridor Study	\$22,388
Vectura Consulting Services, LLC	Traffic	4400018271, H.011242.1	LA 384 (Big Lake Rd to McNeese St)	\$31,827

(Add rows as needed)


DO NOT SUM

20. Certifications/Licenses:



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Mr. James Quinton Dickerson III
 133 Hemlock Road
 Batesville, Mississippi 78606

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Mr. James Quinton Dickerson III		
License/Certificate Type - Number	Expiration Date	
PE.0038922	09/30/2024	
Status: Active		
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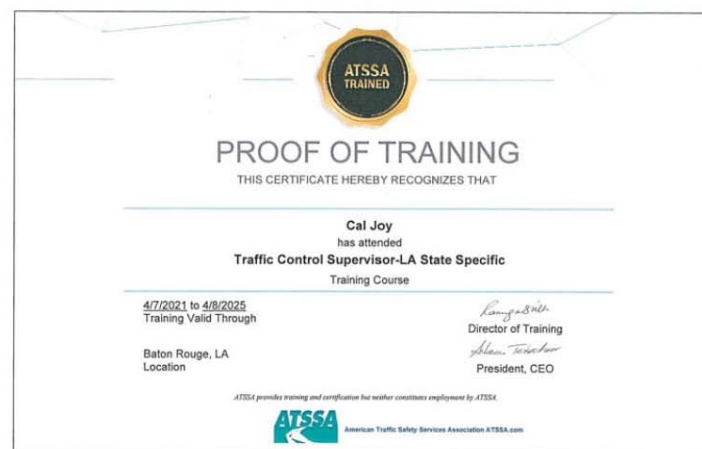
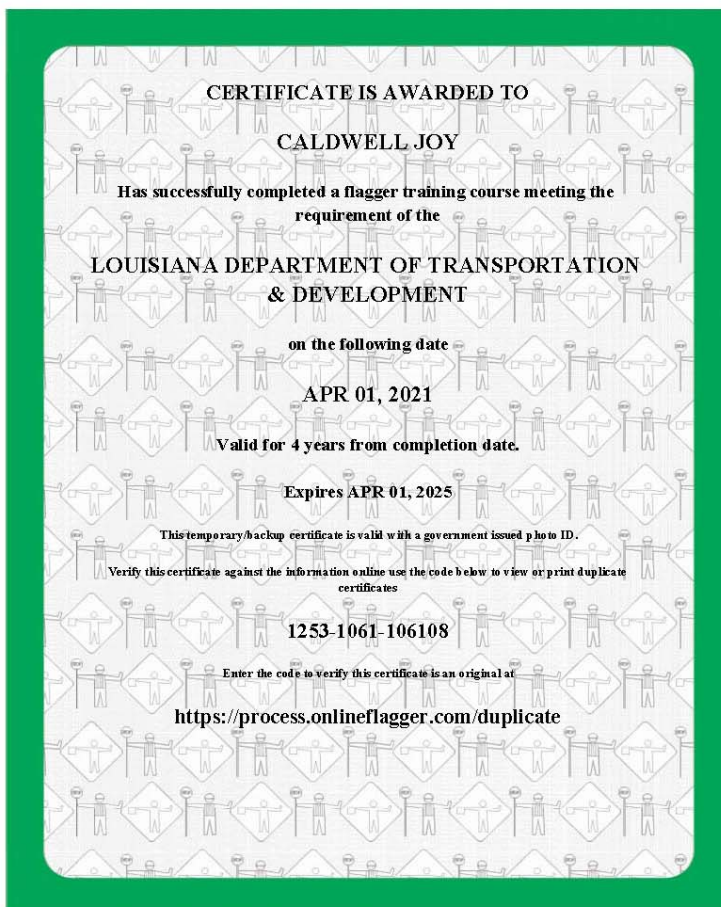
Mr. Caldwell Phillips Joy II
 18163 East Petroleum Drive, Suite A
 Baton Rouge, Louisiana 70809

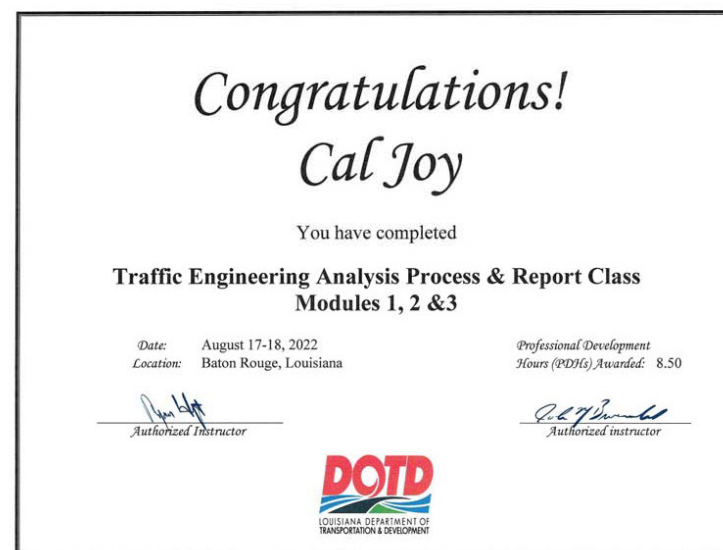
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Mr. William Andrew Pinkley
 3150 Lenox Park Boulevard
 Memphis, Tennessee 38115

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Mr. William Andrew Pinkley		
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PE.0040713	09/30/2024	
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 3314 Westervelt Avenue
 Baton Rouge, Louisiana 70820

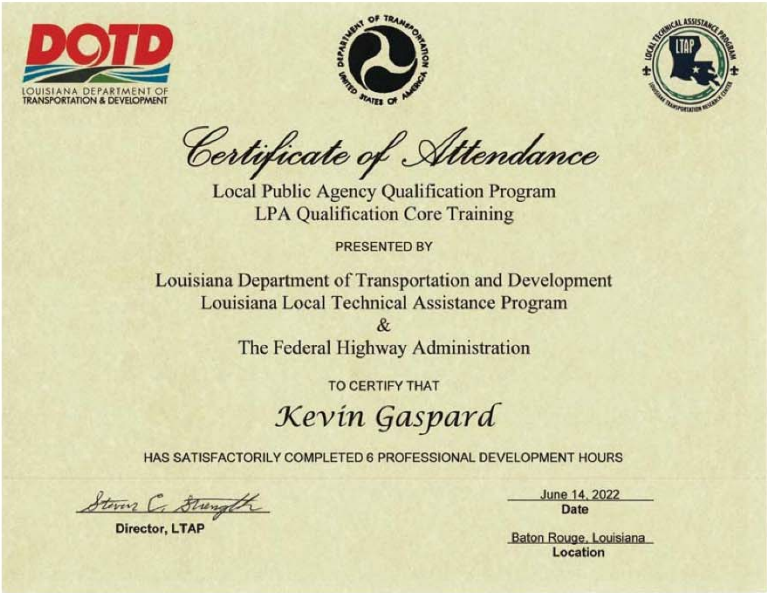
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Modules 1, 2 & 3

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Hours (PDHs) Awarded: 8.50


Authorized Instructor



Authorized Instructor


LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD
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Mr. Joseph Folse Mingo
3500 North Causeway Boulevard, Suite 1060
Metairie, Louisiana 70002



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(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6227
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Mr. Joseph Folse Mingo

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Status: Active	

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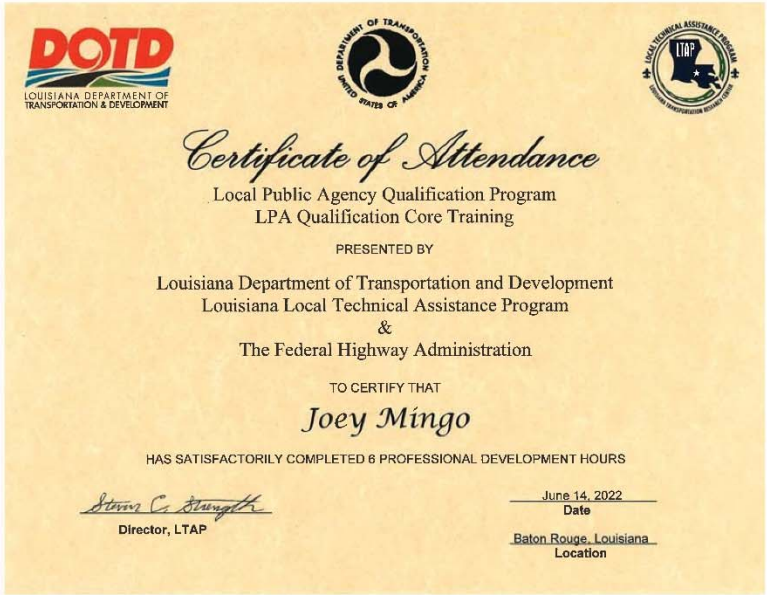
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
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Hours (PDHs) Awarded: 8.50


Authorized Instructor


Authorized instructor


LOUISIANA DEPARTMENT OF
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Mr. Hugo Antonio Leiva
10028 Ole Millstead Court
Baton Rouge, Louisiana 70816

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ENGINEERING & LAND SURVEYING BOARD
(LPELS)**

9643 Brookline Avenue, Suite 321
Baton Rouge, LA 70809
Phone (225) 925-6291
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Mr. Hugo Antonio Leiva

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EI.0034035	09/30/2023
Status: Active	

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

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10/27/2021

4 Year Certification | Online Flagger

(<https://onlineflagger.com/wp-login.php?>

Logout

action=logout&redirect_to=https%3A%2F%2Fonlineflagger.com&_wpnonce=2d7f4ee33f&redirect_to=https%3A%2F%2Fonlineflagger.com)

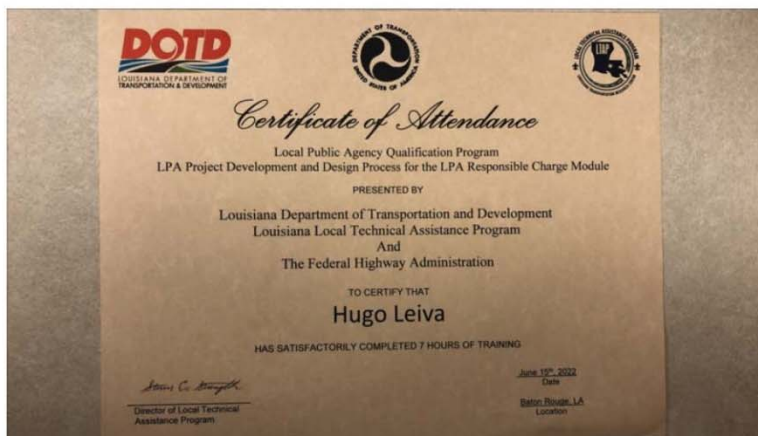
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(<https://onlineflagger.com/members/hleiva-092921211037/>)

Print PDF Print

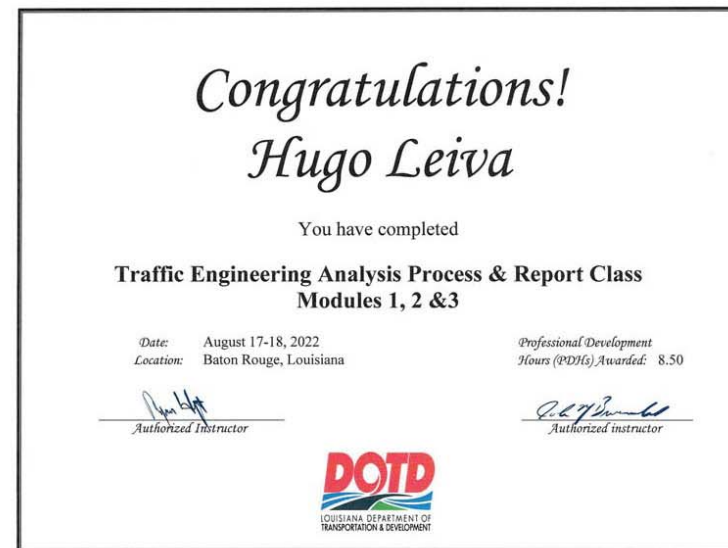


<https://onlineflagger.com/certificates/4-year-certification?c=1061&u=115864>

1/2



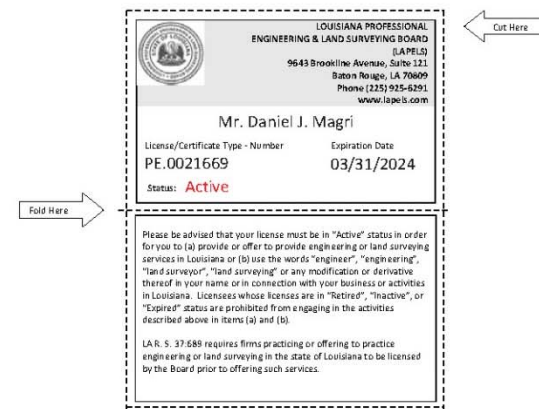
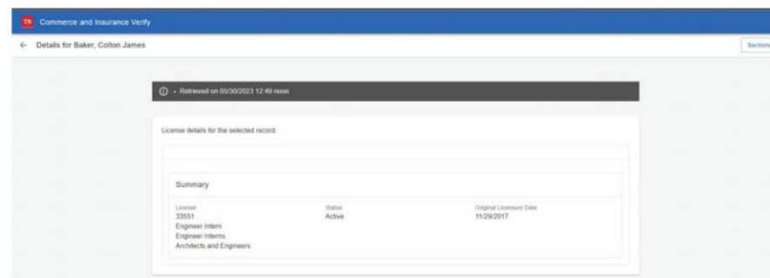






LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD
 As of 2/6/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS)
 has the following information on file:

Mr. Daniel J. Magri
 18163 East Petroleum Drive, Suite A
 Baton Rouge, Louisiana 70809



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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD
 As of 2/6/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS)
 has the following information on file:

Mr. Mark Shiyakov
 2731 Via Capri, Unit 921
 Clearwater, Florida 33764

 LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone: (225) 925-6227 www.lapels.com		Cut Here
Mr. Mark Shiyakov		
License/Certificate Type - Number	Expiration Date	
PE.0038927	09/30/2024	
Status: Active		
Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).		
LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.		

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD
 As of 2/6/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS)
 has the following information on file:

Mr. Lloyd Mark Pearson
 105 Burkwood Lane
 Raleigh, North Carolina 27609

 LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone: (225) 925-6227 www.lapels.com		Cut Here
Mr. Lloyd Mark Pearson		
License/Certificate Type - Number	Expiration Date	
PE.0039629	09/30/2025	
Status: Active		
Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).		
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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD
 As of 2/6/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS)
 has the following information on file:

Mr. Hatem Mohamed Seliem Ph.D.
 4704 Stoney Trace
 Tallahassee, Florida 32309

 LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone: (225) 925-6227 www.lapels.com		Cut Here
Mr. Hatem Mohamed Seliem Ph.D.		
License/Certificate Type - Number	Expiration Date	
PE.0039759	09/30/2025	
Status: Active		
Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).		
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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD
 As of 2/6/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS)
 has the following information on file:

Mr. Michael Warren Craig
 101 Wilander Drive
 Cary, North Carolina 27511

 LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone: (225) 925-6227 www.lapels.com		Cut Here
Mr. Michael Warren Craig		
License/Certificate Type - Number	Expiration Date	
PE.0041964	03/31/2024	
Status: Active		
Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).		
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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD
 As of 2/6/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS)
 has the following information on file:

Mr. Arunava Saha
 WSP 3400 Peachtree Road, Tower Place 100, Suite 2400
 Atlanta, Georgia 30326

 LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone: (225) 925-6227 www.lapels.com		Cut Here
Mr. Arunava Saha		
License/Certificate Type - Number	Expiration Date	
PE.0038334	03/31/2024	
Status: Active		
Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).		
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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD
 As of 2/6/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS)
 has the following information on file:

Mr. Trevor K. Johnson
 2202 North West Shore Boulevard, Suite 300
 Tampa, Florida 33607

 LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone: (225) 925-6227 www.lapels.com		Cut Here
Mr. Trevor K. Johnson		
License/Certificate Type - Number	Expiration Date	
PE.0045518	09/30/2025	
Status: Active		
Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).		
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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 2/6/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Casey Jordan Howard
128 Talbert Road, Suite A
 Mooresville, North Carolina 28117



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

Mr. Casey Jordan Howard

License/Certificate Type - Number	Expiration Date
PE.0042913	03/31/2025

Status: **Active**

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National Highway Institute Certificate of Training

MICHAEL W. CRAIG

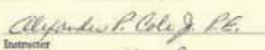
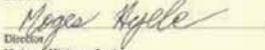
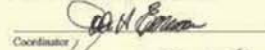
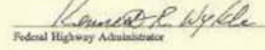
has satisfactorily completed training in

SAFETY INSPECTION OF IN SERVICE BRIDGES

conducted by

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
MICHAEL BAKER, JR., INC.

<i>Location:</i> RALEIGH, NORTH CAROLINA	<i>Hours of instruction:</i> 80
<i>Date:</i> MARCH 5 - 16, 2001	<i>Continuing Education Units:</i> 6.0

 Instructor  Director National Highway Institute	 Coordinator  Federal Highway Administrator
--	--




National Highway Institute Certificate of Training

Michael Craig

has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

WSP

<i>Date:</i> January 10-12, 2023	<i>Hours of Instruction:</i> 18
<i>Location:</i> Raleigh, NC	

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




National Highway Institute Certificate of Training

Michael Craig

has participated in


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

hosted by

Parsons Brinckerhoff

<i>Date:</i> Oct 06-09, 2015	<i>Hours of Instruction:</i> 25
<i>Location:</i> Lawrenceville, NJ	

 Instructor  Instructor	 Local Coordinator  Valerie Briggs, Director National Highway Institute
--	---

National Highway Institute Certificate of Training

Michael Craig

has participated in

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

hosted by

WSP | Parsons Brinckerhoff, Inc.

<i>Date:</i> July 18-19, 2016	<i>Hours of Instruction:</i> 11
<i>Location:</i> Herndon, VA	

 Instructor  Instructor	 Local Coordinator  Valerie Briggs, Director National Highway Institute
--	---







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

Certificate of Training

Casey Howard
has participated in

FHWA-NHI-130055 Safety Inspection of In-Service Bridges
hosted by
WSP GROUP

Date: January 27- February 7, 2014 **Hours of Instruction:** 60
Location: Charlotte, NC

[Signature]
 Instructor

[Signature]
 Local Coordinator

[Signature]
 Instructor

[Signature]
 Local Coordinator

Richard Barnaby, Director
 National Highway Institute

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

Certificate of Training

Casey Howard
has Successfully Completed

FHWA-NHI-130053 Bridge Inspection Refresher Training
hosted by
WSP

Date: November 01-03, 2022 **Hours of Instruction:** 18
Location: Mooresville, NC

[Signature]
 Instructor

[Signature]
 Local Coordinator

[Signature]
 Instructor

[Signature]
 Local Coordinator

Thomas Harman, Director
 National Highway Institute

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

Certificate of Training

Casey Howard
has participated in

FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges
hosted by
Stantec

Date: August 23-26, 2016 **Hours of Instruction:** 25
Location: Denver, CO

[Signature]
 Instructor

[Signature]
 Local Coordinator

[Signature]
 Instructor

[Signature]
 Local Coordinator

Valerie Briggs, Director
 National Highway Institute

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

Certificate of Training

Casey Howard
has participated in

FHWA-NHI-134029 Bridge Maintenance Training
hosted by
WSP GROUP

Date: October 1-4, 2013 **Hours of Instruction:** 24
Location: Charlotte, NC

[Signature]
 Instructor

[Signature]
 Local Coordinator

[Signature]
 Instructor

[Signature]
 Local Coordinator

Richard Barnaby, Director
 National Highway Institute





SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS



Acknowledges that

CASEY HOWARD

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

CERTIFIED

Level 2 Rope Access Technician

SPRAT #151444

AWARDED: February 19, 2021

Expires: February 19, 2024

TROLL, EVALUATIONS COMMITTEE CHAIR

TOM WOOD, SPRAT PRESIDENT

©2012 - Present, Society of Professional Rope Access Technicians



National Highway Institute

Certificate of Training



Casey Howard

has participated in

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

hosted by

WSP GROUP

Date: January 27- February 7, 2014

Hours of Instruction: 60

Location: Charlotte, NC

Instructor

Local Coordinator

Richard Barnaby, Director
National Highway Institute





PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

William Mitchell
has attended
Louisiana Traffic Control Supervisor
Training Course

8/16/2023 to 8/16/2027 CEU: 1.50
Training Valid Through

New Orleans, LA
Location

John H. Cook
Vice President of Education and Technical Training

Alan Teicher
President, CEO

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





National Highway Institute Certificate of Training

William Mitchell
has participated in

FHWA-NHI-130053 Safety Inspection Refresher Training

hosted by
WSP USA

Date: January 16-18, 2018 **Hours of Instruction:** 18
Location: Cary, NC

John Rowe
Instructor

Valerie Briggs
Local Coordinator

Thomas Galvan
Instructor

Valerie Briggs
Valerie Briggs, Director
National Highway Institute




National Highway Institute Certificate of Training

William Mitchell
has participated in

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

hosted by
WSP

Date: February 18-21, 2014 **Hours of Instruction:** 21
Location: Cary, NC

Shawn J. Smith
Instructor

Richard Barnaby
Local Coordinator

Richard Barnaby
Richard Barnaby, Director
National Highway Institute




National Highway Institute Certificate of Training

William Mitchell
has participated in

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

hosted by
WSP | Parsons Brinckerhoff, Inc.

Date: July 18-19, 2016 **Hours of Instruction:** 11
Location: Herndon, VA

Shawn J. Smith
Instructor

Valerie Briggs
Local Coordinator

Shawn J. Smith
Instructor

Valerie Briggs
Valerie Briggs, Director
National Highway Institute






LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 2/27/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mrs. Sheelagh Brin Ferlito
2512 Tiger Crossing Drive
Baton Rouge, Louisiana 70810

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
	Mrs. Sheelagh Brin Ferlito	
License/Certificate Type - Number	Expiration Date	
PE.0025383	09/30/2025	
Status: Active		

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

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Dear Certified Flagger:

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

Sincerely,

Donna M. Clark

VP of Education and Technical Services


PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT

Brin Ferlito
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

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

Sheelagh Ferlito
Director of Training

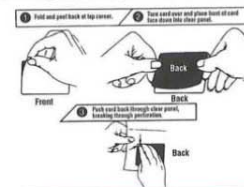
Baton Rouge, LA
Location

Sheelagh Ferlito
President, CEO

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

 American Traffic Safety Services Association ATSSA.com

Laminating the front of your card with Dual Laminate:



 American Traffic Safety Services Association

This is to affirm that
Sheelagh Ferlito
has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Issue Date 5/9/2023 ATSSA
Exp. Date 5/8/2027 Instructor Name _____
State Issued LA Instructor Signature *Donna M. Clark*


A1600126216 [Verify at Flagger.com](http://VerifyAtFlagger.com)


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





Certificate of Completion
presented to
Brin Ferlato
for completing the
**Traffic Engineering Analysis Process & Report
Module 1**

Date: June 4, 2018
Location: Baton Rouge, Louisiana
Professional Development
Hours (PDHs) Awarded: 4


Authorized Instructor



Authorized Instructor



Authorized Instructor



LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT


Certificate of Completion
presented to
Brin Ferlato
for completing the
**Traffic Engineering Analysis Process & Report
Module 2**

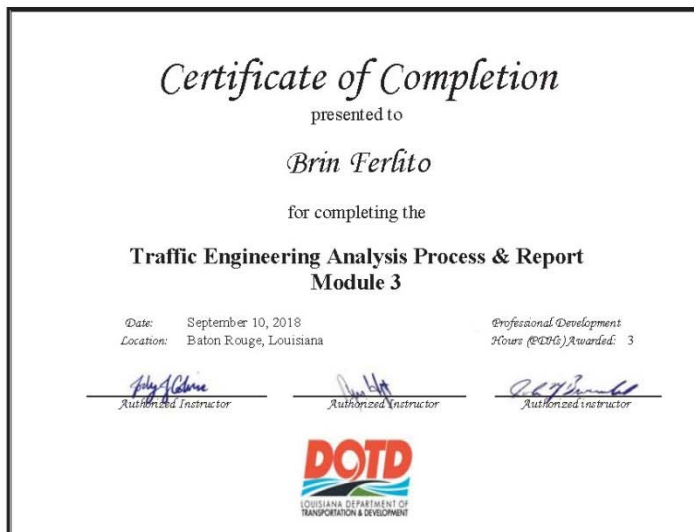
Date: June 11, 2018
Location: Baton Rouge, Louisiana
Professional Development
Hours (PDHs) Awarded: 4


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Authorized Instructor

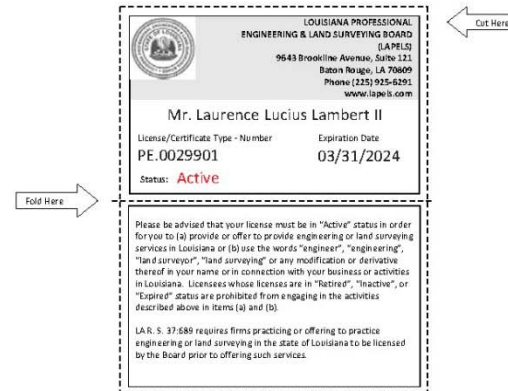

Authorized Instructor


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TRANSPORTATION & DEVELOPMENT



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD
As of 5/26/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS)
has the following information on file:

Mr. Laurence Lucius Lambert II
P. O. Box 14269
Baton Rouge, Louisiana 70898



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Transportation Professional Certification Board Inc.

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



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

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

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

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

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Sincerely,

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





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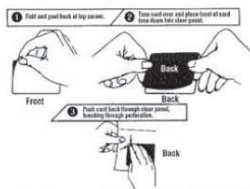
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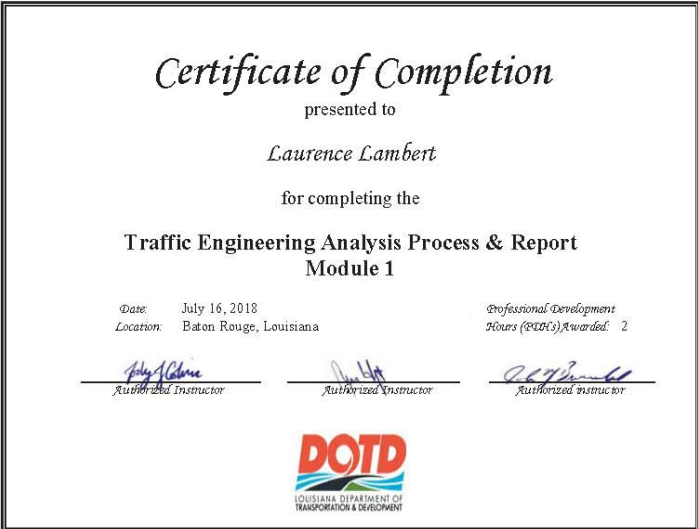
Sincerely,

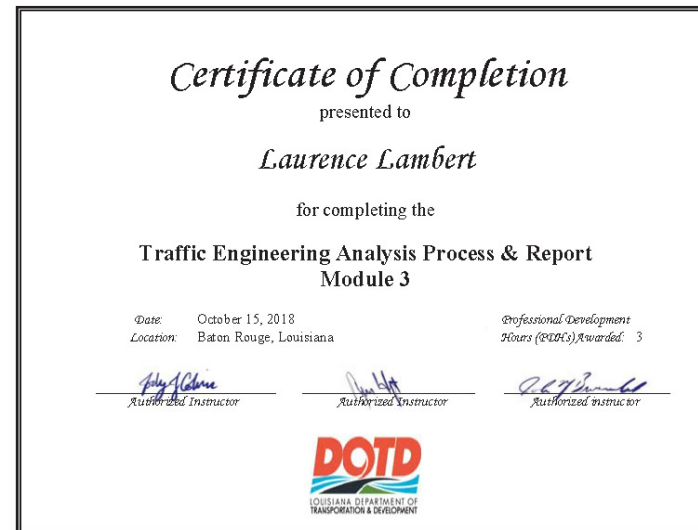
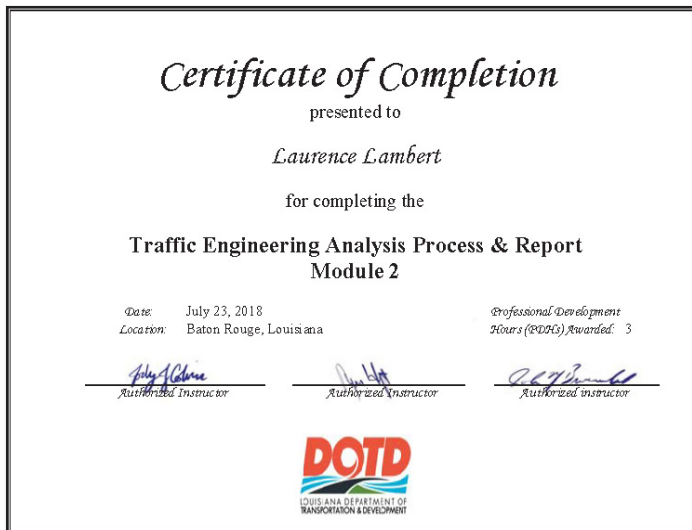
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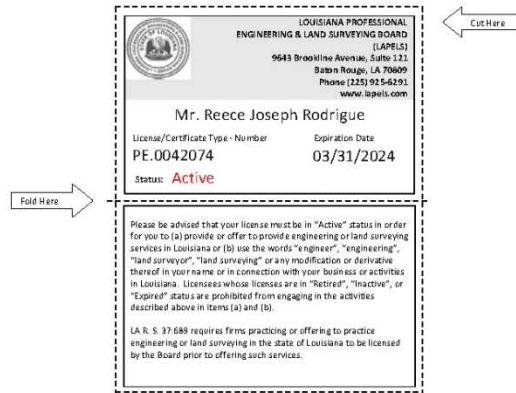




LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 5/26/2023 the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Reece Joseph Rodrigue
6158 Catina Street
New Orleans, Louisiana 70124



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

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Laurence Lambert

From: Reece Rodrigue
Sent: Friday, June 10, 2022 8:55 AM
To: Laurence Lambert
Subject: FW: TPCB Renewal Approval Notice

See renewal notice below.

Reece Rodrigue, PE, PTOE
Vectura Consulting Services, LLC
m. 504.421.2782

From: info@ite.org <info@ite.org>
Sent: Friday, May 6, 2022 8:20 AM
To: Reece Rodrigue <rrodrigue@vecturacs.com>
Subject: TPCB Renewal Approval Notice

Transportation Professional Certification

1627 Eye Street, NW • Suite 600 • Washington, DC 20006 USA • Tel: 202-785-0060 • F

Mr. Reece J. Rodrigue, P.E., PTOE
Vectura Consulting Services, LLC

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

Your certification is renewed through 7/17/2025.

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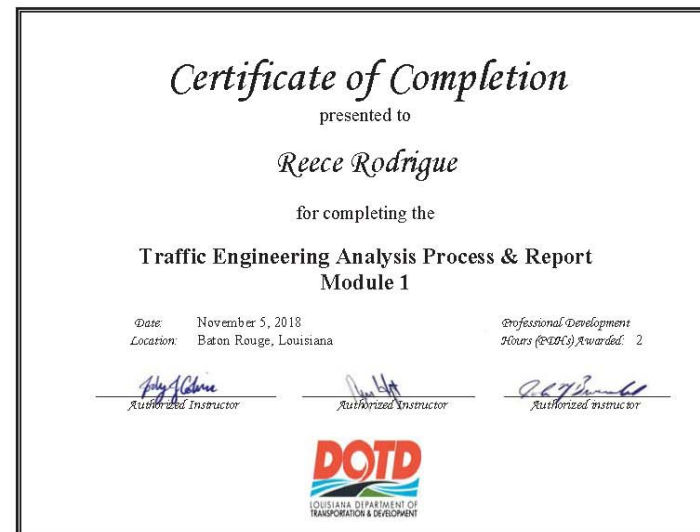
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Thank you for your continued PTOE certification and best wishes in the coming years.

Sincerely,

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







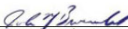
Certificate of Completion
presented to
Reece Rodrigue
for completing the
**Traffic Engineering Analysis Process & Report
Module 2**


Date: November 26, 2018
Location: Baton Rouge, Louisiana

Professional Development
Hours (PD/C) Awarded: 3.5


Authorized Instructor


Authorized Instructor



Authorized Instructor



LOUISIANA DEPARTMENT OF
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Certificate of Completion
presented to
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for completing the
**Traffic Engineering Analysis Process & Report
Module 3**


Date: December 3, 2018
Location: Baton Rouge, Louisiana

Professional Development
Hours (PD/C) Awarded: 3


Authorized Instructor


Authorized Instructor


Authorized Instructor


LOUISIANA DEPARTMENT OF
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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD
As of 5/26/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS)
has the following information on file:

Mrs. Kristen Gahagan Farrington
4004 Hastings Street
Metairie, Louisiana 70002

Transportation Professional Certification Board Inc.

1827 Eye Street, NW • Suite 550 • Washington, DC 20006 USA • Tel: 202-785-0080 • www.tpcb.org



Mrs. Kristen Gahagan Farrington, P.E., PTOE, RSP1
4004 Hastings Street
Metairie, LA 70002
USA

Dear Mrs. Farrington,

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



Your certification is renewed through 3/26/2026.



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

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

Sincerely,

Joseph C. Balskus, P.E., PTOE, RSP1
Chair, Transportation Professional Certification Board Inc.

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com		
	Mrs. Kristen Gahagan Farrington License/Certificate Type - Number Expiration Date PE.0042785 03/31/2025 Status: Active		
Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b). LA R. 5:37-689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.			

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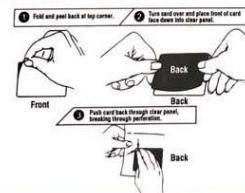
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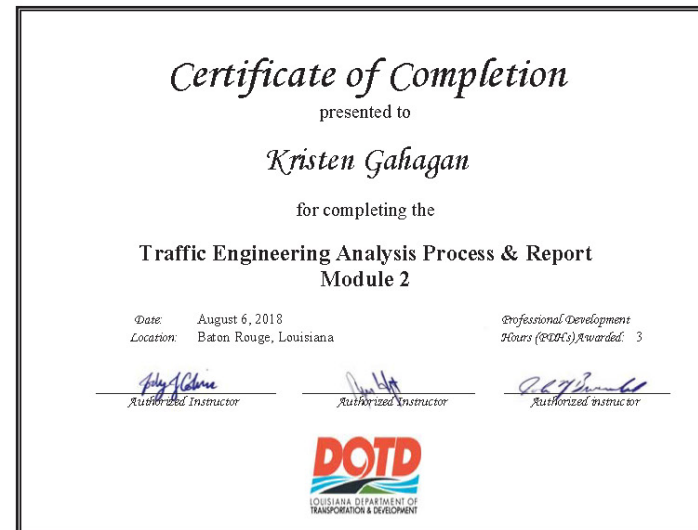
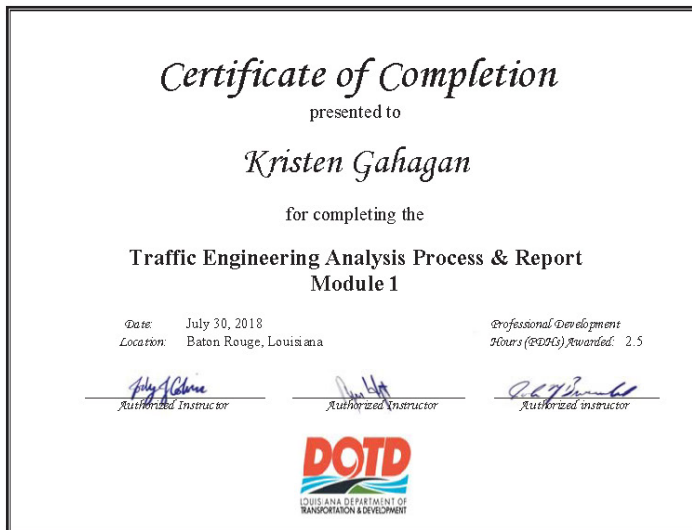
Kangas Smith
Director of Training

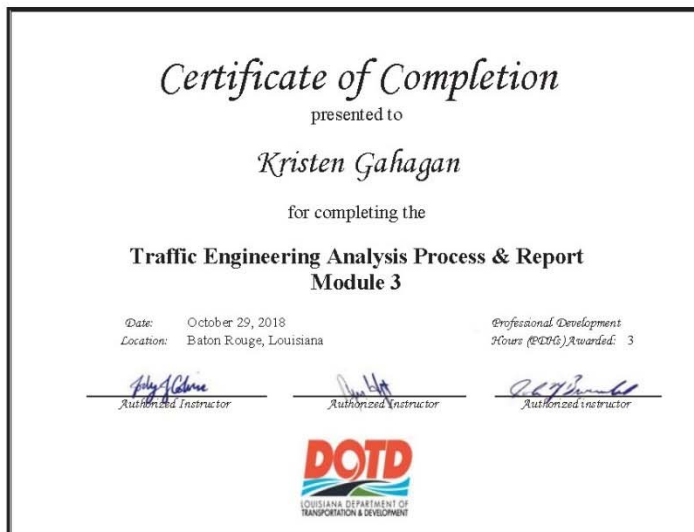
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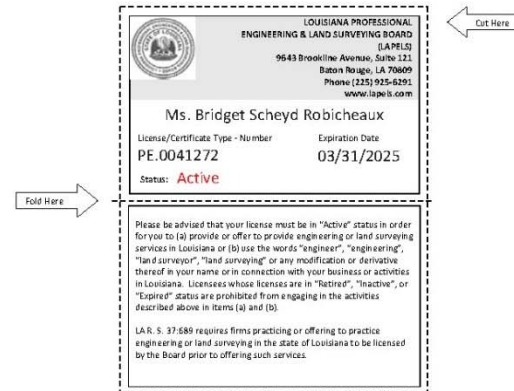






LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD
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has the following information on file:

Ms. Bridget Scheyd Robicheaux
6410 Louis XIV Street
New Orleans, Louisiana 70124



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Transportation Professional Certification Board, Inc.

certifies that

Bridget Scheyd Robicheaux

*has met all of the requirements established by the Certification Board
to use the title of*

Professional Traffic Operations Engineer

*unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 1824 issued in Washington, DC, USA*

08/26/2020

Diane W. Morabito
Diane W. Morabito
Chair



Jeffrey F. Danz
Jeffrey F. Danz
Executive Director

Transportation Professional Certification Board Inc.

1627 Eye Street, NW • Suite 550 • Washington, DC 20006 USA • Tel: 202-785-0060 • www.tpcb.org



Mrs. Bridget S. Robicheaux, P.E., PTOE
6410 Louis XIV Street
New Orleans, LA 70124
USA

Dear Mrs. Robicheaux,

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

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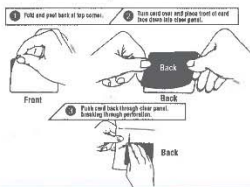
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Sincerely,

Roger Smith
 Director of Training

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 Office: 540-368-1701 • Toll-Free: 800-272-8772 • Fax: 540-368-1717
www.atssa.com





Certificate of Completion
presented to
Bridget Robicheaux
for completing the
**Traffic Engineering Analysis Process & Report
Module 1**


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

Professional Development
Hours (PDHs) Awarded: 2.5


Authorized Instructor


Authorized Instructor



Authorized Instructor



LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT


Certificate of Completion
presented to
Bridget Robicheaux
for completing the
**Traffic Engineering Analysis Process & Report
Module 2**


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

Professional Development
Hours (PDHs) Awarded: 3

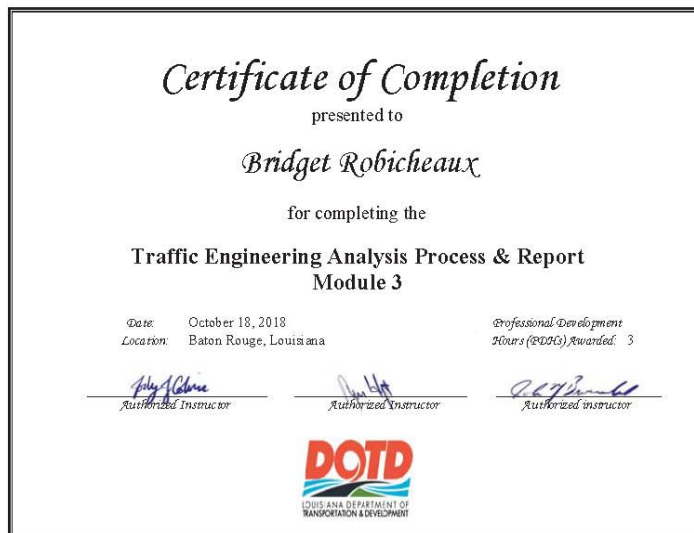

Authorized Instructor


Authorized Instructor


Authorized Instructor


LOUISIANA DEPARTMENT OF
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21. QA/QC Plan and/or Work Plan:

**BRIDGE DESIGN QUALITY CONTROL PLAN
FOR
CONTRACT NO. 4400028432
STATE PROJECT NO. H.015569.5
FEDERAL AID PROEJCT NO. H015569
LA 44: I-10 ROUNDABOUTS
ROUTE: LA 44 & I-10
ACENSION PARISH**

Submitted to:
Louisiana Department of Transportation and Development

Submitted by: _____ Date: _____
Arunava Saha, PE., Lead Design Manager
WSP USA Inc.

Approved by: _____ Date: _____
Lloyd (Mark) Pearson, PE, Quality Control Manager
Mark Shlyakov, PE, Quality Assurance Manager
WSP USA Inc.

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LIST OF APPENDICES

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 Appendix D LADOTD Bridge Design Section Policy on QC-QA

1.0 INTRODUCTION

This Project Quality Control Plan (PQCP) has been prepared in accordance with WSP USA Inc. (WSP) corporate quality policy and the Scope of Services for the **LA 44: I-10 Roundabouts Bridge Services**. WSP maintains a documented quality system that conforms to the International Organization for Standardization (ISO). As such, WSP is certified to ISO 9001:2008 standards. Appendix A provides a copy of WSP's current ISO certificate. To maintain this certification, every element of our operation is audited by an independent third-party auditing firm to verify compliance with the ISO standards and with our quality system.

This PQCP details the proposed methods of controlling and assuring quality on all work products associated with this project. It includes the project team organization, processes for quality control and assurance reviews, proposed methods for documentation of comments and responses, record keeping, and plans to manage subconsultants and vendors (if applicable). The PQCP delineates who will be responsible for these actions and when they should occur in relation to the project schedule. Interfaces, points of coordination, and specific responsibilities are clearly defined.

The PQCP will be updated throughout the duration of the project, as necessary, whenever staff and/or project scope changes occur.

1.1 Project Description

This bridge services scope of work is two (2) phases. The first phase is to evaluate the two existing slab bridges to determine if they should be widened or replaced. The second phase is to design the widening or replacement bridges.

The two existing bridges are slab bridges with a total bridge length of approximately 125 ft. carrying state highway LA 44 over Conway Bayou. Evaluation of the existing bridge includes in-depth field investigation, load rating analysis, and development of bridge evaluation report. The bridge evaluation report shall identify the justifications for whether the existing structure shall be replaced or widened as well as detailed scope of rehabilitation work in case of widening.

The second phase which is the design phase includes developing a design criteria, develop preliminary bridge plans and construction cost estimate, prepare final bridge plans, carry out as-designed bridge load rating, develop special provisions and non-standard pay items, and revise construction cost estimate in accordance with the final bridge plans.



Figure 1 : Project Location Map



1.2 Project Governing Standards and Criteria

The project Scope of Services requires that this project comply with the guidelines, manuals, and standards listed below. Project team members will refer to these references, and amended versions as appropriate, when working on this project.

1. AASHTO Standards – <https://www.transportation.org/>
2. AASHTO—A Policy on Geometric Design of Highway and Streets – https://bookstore.transportation.org/collection_details.aspx?ID=110
3. ASTM Standards – <https://www.astm.org/BOOKSTORE/BOS/index.html>
4. CyberSecurity Training – <https://forms.gle/djZGA6nUMWeSG4P6>
5. DOTD Bridge Design Manual – http://www.wsp.dotd.la.gov/inside_LaDOTD/Divisions/Engineering/Bridge_Design/Pages/BDEM.aspx
6. DOTD Complete Streets – http://www.wsp.dotd.la.gov/inside_LaDOTD/Divisions/Engineering/CompleteStreets/Pages/default.aspx
7. DOTD Construction Contract Administration Manual – http://apps2.engineering/Construction/forms/CCA_Manual/01_Construction_Contract_Administration_Manual_2011.pdf



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8. Consultant Contract Services Manual – http://www.wsp.dotd.la.gov/inside_LaDOTD/Divisions/Engineering/CCS/Manuals/CCS%20Manual%202017.pdf
9. DOTD Hydraulics Manual – http://www.wsp.dotd.la.gov/inside_LaDOTD/Divisions/Engineering/Public_Works/Hydraulics/Documents/Hydraulics%20Manual.pdf
10. DOTD Location and Survey Manual – http://www.wsp.dotd.la.gov/inside_LaDOTD/Divisions/Engineering/LocationSurvey/Manuals%20and%20Forms/Location_and_Survey_Manual.pdf
11. DOTD – Addendum "A" to the Location & Survey Manual – http://www.wsp.dotd.la.gov/inside_LaDOTD/Divisions/Engineering/LocationSurvey/Manuals%20and%20Forms/Location%20and%20Survey%20Manual%20-%20Addendum%20A.pdf
12. DOTD – Louisiana Standard Specifications for Roads and Bridges – http://www.wsp.dotd.la.gov/inside_LaDOTD/Divisions/Engineering/Standard_Specifications/Pages/Standard%20Specifications.aspx
13. DOTD – Materials Sampling Manual – http://www.wsp.dotd.la.gov/inside_LaDOTD/Divisions/Engineering/Materials_Lab/Pages/Menu_MSM.aspx
14. DOTD – Minimum Design Guidelines – http://www.wsp.dotd.la.gov/inside_LaDOTD/Divisions/Engineering/Road_Design/Memoranda/Minimum%20Design%20Guidelines.pdf
15. DOTD – Off-System Highway Bridge Program Guidelines – http://www.wsp.dotd.la.gov/inside_LaDOTD/Divisions/Engineering/Bridge_Design/Manuals/Other%20Manuals%20-%20Guidelines/2019%20Federal%20Aid%20Off-System%20Highway%20Bridge%20Program%20Guidelines.pdf
16. DOTD – Roadway Design Procedures and Details Manual – http://www.wsp.dotd.la.gov/inside_LaDOTD/Divisions/Engineering/Road_Design/Pages/Road-Design-Manual.aspx
17. DOTD – Stage 1 Planning/Environmental Manual of Standard Practice – http://www.wsp.dotd.la.gov/inside_LaDOTD/Divisions/Engineering/Environmental/Pages/Stage_1.aspx
18. DOTD – Testing Procedures Manual – http://www.wsp.dotd.la.gov/inside_LaDOTD/Divisions/Engineering/Materials_Lab/Pages/Menu_TPM.aspx
19. DOTD – Traffic Engineering Manual – http://www.wsp.dotd.la.gov/inside_LaDOTD/Divisions/Engineering/Traffic_Engineering/Misc%20Documents/Traffic%20Engineering%20Manual.pdf



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20. DOTD – Traffic Engineering Process and Report – http://www.sp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/Traffic_Engineering/Manuals/Publications/Pages/TEPR.aspx
21. DOTD – Traffic Signal Design Manual – http://www.sp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/Traffic_Engineering/Traffic%20Control/Traffic%20Signal%20Manual%20V2.0%205-28-2015.pdf
22. E-CFR – Electronic Code of Federal Regulations – <https://ecfr.io/>
23. FHWA – Bridge Inspector's Reference Manual (BIRM) – http://www.sp.dotd.la.gov/Inside_LaDOTD/Divisions/Operations/BridgeMaintenance/Pages/Documents-and-Manuals.aspx
24. FHWA – Manual on Uniform Traffic Control Devices (Non-DOTD Link) – <http://mutcd.fhwa.dot.gov/>
25. National Electrical Safety Code (NESC) – <https://standards.ieee.org/products-services/nesc/index.html>
26. National Electrical Code (NFPA 70) – <https://www.nfpa.org/codes-and-standards/all-codes-and-standards/list-of-codes-and-standards/detail?code=70>
27. NEPA National Environmental Policy Act – <https://www.epa.gov/nea>

1.3 Definition of Terms

The use of the terms *quality control (QC)* and *quality assurance (QA)* within the PQCP have the following meanings:

- Quality Control refers to actions, procedures, and methods that are routinely employed at the production and administrative levels, and under the jurisdiction of the Project Manager, to produce the desired result of quality professional services.
- Quality Assurance refers to actions, procedures, and methods employed at the management and senior technical levels to verify that prudent quality control procedures are in place, are being followed, and that the desired result of quality professional services is being achieved.



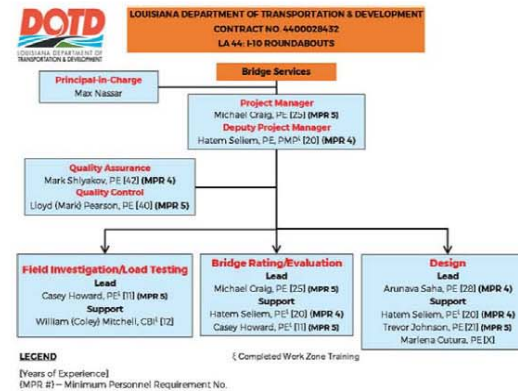
2.0 PROJECT ORGANIZATION

2.1 Project Team

Figure 2 presents the team, including the management, QA/QC, and technical staff assigned to the various elements of the bridge design services.

Each member of the team shares the responsibility in ensuring quality professional services are being achieved for this project.

Figure 2: Bridge Services Staff



2.2 Team Member QA/QC Responsibilities

The main functions of key staff classifications in relation to quality control and quality assurance are described below.

- Engineering/Planning Technical Staff will plan and execute assignments to produce work in accordance with the Scope of Services and in the form the Florida Department of Transportation (LADOTD) requests and expects. The most important place to assure quality is at the technical staff production level where the work is planned and



executed. This is accomplished by selecting the most experienced and skilled professionals to perform each specific task.

- Project Engineers/Planners/Scientists are highly experienced professionals who will direct a team of technical staff in producing a particular element of the project. They will also establish quality control procedures for their responsible areas and assign quality control functions for their staff. These procedures will comply with the PQCP.
- Michael Craig, PE, as Project Manager (PM), will allocate resources to various elements of the work, prepare, and implement the PQCP, schedule the various activities, and adjust the plans as the work progresses to resolve identified potential problem areas in a timely manner. Working with the respective Project Engineer/Planner/Scientist, the PM will identify the suitable persons/teams to perform QC reviews on each project element/deliverable and will maintain records of all QC and QA reviews in the project files.

The PM will perform a final quality check of all work before it is submitted to LADOTD, ensure that the procedures outlined in this document have been followed without exceptions, and maintain frequent contact and communication with LADOTD to assure satisfaction with the project's progress and performance.
- Quality Control Reviewers are persons or teams who will perform independent technical reviews on specific project tasks, verify the quality and technical adequacy of the project deliverables, and assure compliance with applicable standards and requirements. The QC Reviewers are not directly involved in the preparation of the documents/plans. The following is a list of reviewers who will be available for bridge design services tasks:
 - Mark Shlyakov, PE (42 year of experience)
 - Lloyd (Mark) Pearson, PE (40 year of experience)
- Max Nassar, as Principal-in-Charge (PIC), will allocate the required resources to perform the project, and monitor the project to ensure adherence to the contractual terms and the PQCP. The PIC will provide periodic audits of technical performance of WSP staff and subconsultants and will obtain client feedback and input regarding the project and WSP's performance.
- Mark Pearson, PE and Mark Shlyakov, PE, as Quality Control Manager (QCM) and Quality Assurance Manager (QAM), will ensure that all deliverables have entered the QC review process and adequate time has been allowed to perform a complete QC review. The QAM has the authority to delay the submittal of a deliverable should he deem that this deliverable has not received a satisfactory QC review prior to its submittal. The QAM shall not participate in the production of any elements of the project.

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3.0 QUALITY CONTROL AND QUALITY ASSURANCE REVIEWS

3.1 General

Prior to submittal, each deliverable will undergo QC and QA reviews consistent with this PQCP and LADOTD's Bridge Design Section QC/QA Policy in Appendix D. LADOTD's quality control checklists will be used to verify that each deliverable complies with the current requirements and expectations.

The QC reviews of studies, reports, drawings, specifications, calculations, cost estimates, and/or other project related deliverables will require a minimum of two individuals:

- The deliverable *Author* (for documents) or *Originator* (for plans and calculations). During the QC process, this individual will also function as the *Corrector* and *Back-checker*.
- The *QC Reviewer/Checker* who will also function as the *Verifier*.

Deliverables resulting from the participation of multiple disciplines may involve multiple Originators/Back-checkers/Correctors and QC Reviewers/Checkers/Verifiers. All QC Reviewers/Checkers/Verifiers will be Engineers/Planners/Scientists who are experienced in the discipline being checked and not actively involved in the preparation of the deliverable. No Author or Originator will perform a formal QC check on his/her own work.

The QAM will perform the QA reviews.

A checkpoint is a copy of a document (report/memorandum), drawing, or calculation in its pre-submission form used to check and mark comments, additions, deletions, and corrections. The checkpoint is identified as such by being accompanied by a QC form (for documents) or bearing the specific QC stamp (for drawings and calculations).

Section 3.2 discusses the checking procedures that will occur during the QC and QA reviews.

3.2 Checking Procedures

3.2.1 Checking of Documents

Each document developed for the project will undergo two QC reviews. Figure 3 provides a flow diagram of the QC and QA review processes for documents. The first QC review will be a technical review to check the technical accuracy of the document's content and its compliance with applicable guidelines, procedures, regulations, and standards. The technical review will occur first because it may lead to major changes in the document content and/or structure. The second QC review will be an editorial review to check for spelling, grammar, formatting, readability, consistency, and plain language. The editorial review will occur on a clean copy of the revised document after the technical QC review is completed.

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Upon completion of the document, the responsible Project Engineer/Planner/Scientist (Author) will initiate the technical and editorial QC reviews by filling out the top two sections and the "name" column of the third section of the QC form shown in Figure 4.

For both reviews, comments/corrections will be marked in red by the QC Reviewers on the checkprints; the QC Reviewers will initial the bottom right corner of each checkprint page that has no comments. Upon completion of the reviews, the QC Reviewers will sign and date the QC form and return it along with the marked-up checkprint to the Author. The Author, who will also act as the Corrector and/or Back-checker, will confirm the corrections/comments, consult with the appropriate person(s) to resolve conflicts, and revise the document in accordance with the comments. As QC Reviewer comments are addressed, the Author will highlight them in yellow on the checkprint. After discussion with the QC Reviewer, if comments are deemed no longer valid, the Author will cross them out in black on the marked-up document and provide a brief note explaining the reason. This process is done twice, once for the technical review and once for the editorial review.

The Author will initial and date the QC form and return it along with the checkprint and a revised document to the QC Reviewer who, acting as the Verifier, will confirm with green check marks on the checkprint that each comment is addressed satisfactorily. Should comments be not properly addressed, the QC Reviewer will return both documents to the Author for additional changes. When the QC Reviewer is satisfied with all corrections, he/she will initial and date the QC form and return it to the Author with the documents. This action completes the document's QC review process. At the end of this process, all comments on the checkprint must be either highlighted in yellow or crossed out in black (with an explanation), each comment must bear the QC Reviewer's green check mark.

Figure 3: Document Quality Control and Quality Assurance Process

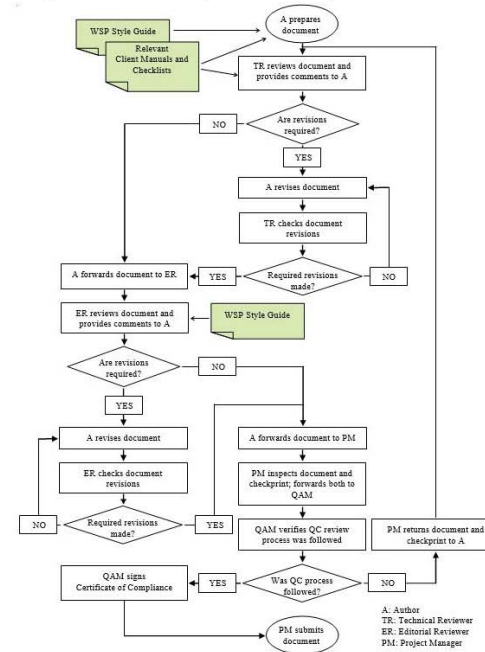


Figure 4: Quality Control Form for Documents

DOCUMENT QUALITY CONTROL FORM

Labor Charge Number	Project #	Task #	
Due Date for Technical Review	Due Date for Editorial Review		
Estimated Hours for Technical Review	Estimated Hours for Editorial Review		

PROJECT INFORMATION

Project Name	
Document Title	
Document Date	
Electronic File Path & Name	
File Number	
Document Author(s)	
Project Manager	

TECHNICAL/EDITORIAL REVIEWS

		NAME	INITIALS	DATE
TECHNICAL REVIEW	Primary Review <small>(red correction)</small>	TR		
	Revised <small>(yellow highlight over red, black explanation of disagreement to change)</small>	A		
	Revisions Reviewed <small>(green check on revision=OK, green circle = additional correction with red comment on new version)</small>	TR		
	Primary Review <small>(red correction)</small>	ER		
EDITORIAL REVIEW	Revised <small>(yellow highlight over red, black explanation of disagreement to change)</small>	A		
	Revisions Reviewed <small>(green check on revision=OK, green circle = additional correction with red comment on new version)</small>	ER		
	PM Approval			
	QAM Approval			

SPECIAL INSTRUCTIONS FOR REVIEWER (IF ANY)

A = Author, Responsible for following document through process
 TR = Technical Reviewer
 ER = Editorial Reviewer
 PM = Project Manager
 QAM = Quality Assurance Manager



At the closing of the QC review process, the Author will deliver to the PM a clean copy of the submittal document, the technical review and editorial review checkprints, and the QC form. The PM will inspect the checkprints and submittal document to verify that the process has been adequately followed, all comments were properly addressed, and the deliverable meets LADOTD's expectations. After completing this inspection, the PM will initial and date the QC form and prepare and sign the QC/QA Certification (see Appendix B). The PM will forward the checkprints, the submittal document, the completed QC form, and the signed QC/QA Certification to the QAM.

As a final check, the QAM will verify that the QC process has been followed by reviewing the checkprints, the QC form, and the submittal document. If the QAM finds that the process was not adequately followed, he will return the documents to the PM with further instructions. If he is satisfied that the process has been followed, the QAM will initial the QC form and sign the QC/QA Certification, which the PM will submit to LADOTD with the submittal document. The QAM will also return the checkprints to the PM.

After completion of the QC and QA review processes, the PM will file the technical and editorial QC review checkprints, the QC form, a record copy of the submitted document, and a copy of the QC/QA Certification in the project files for record keeping. The submittal document shall be in both hard copy paper format and pdf electronic format. The checkprint(s), the QC form, and the QC/QA Certification QC may be either hard copy or scanned and saved as an electronic format in the project directory.

3.2.2 Checking of Drawings

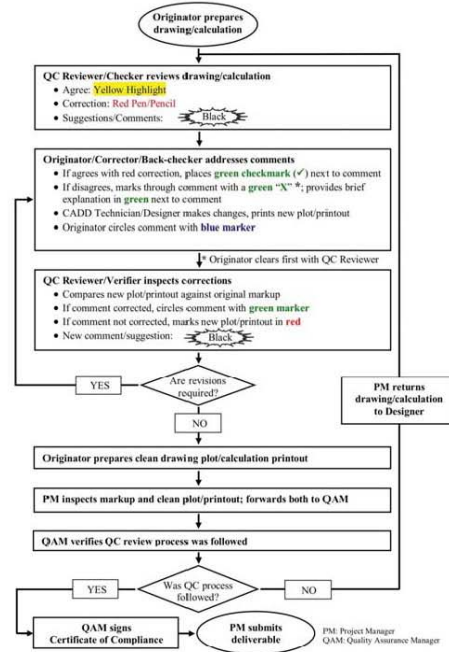
Teams of staff prepare drawings under the direction of Project Engineers/ Planners/Scientists assigned by the PM. The drawings are developed progressively by an iterative process using provided sources of information, such as reports, record data, preliminary sketches, samples, and workups, in conformance with the requirements, design criteria, and standards and guidelines provided by LADOTD. Before a drawing is considered as a completed deliverable, an independent qualified QC Reviewer will check it for:

- Conformance with the design criteria and project requirements
- Completeness and clarity
- Coordination with other aspects of the project (e.g., structural, civil, traffic, right-of-way), and with other associated project documents
- Compatibility of notes and references
- CADD standards, graphic standards, and proper plans preparation practice
- Coordination with adjacent projects

The checking process used for drawings is described and shown in Figure 5. The first formal issue of a drawing is the checkprint; it is routed by its Originator (the responsible Project Engineer/Planner/Scientist) to the assigned QC Reviewer(s)/Checker(s). Multiple copies of checkprints may be routed to several QC Reviewers/Checkers of different departments with interfacing project responsibilities.



Figure 5: Drawing and Calculations Quality Control and Quality Assurance Process



The Originator will place the QC stamp, shown in Figure 6, on the first page/sheet of the checkprint and fill in the first line. The QC Reviewers/Checkers will inspect the project drawings to determine if they meet the objectives of the task and are complete, accurate, and suitable for their intended use. The QC Reviewer/Checker will mark all items on the drawing(s) to indicate either agreement or disagreement. The following colors will be used:

- **Yellow highlight:** QC Reviewer/Checker agrees with the drawing or element
- **Red marking:** area requiring correction
- **Black marking:** relevant comments noted by the QC Reviewer/Checker

As the QC Reviewers/Checkers inspect and mark each drawing, they will initial the bottom right corner of the pages/sheets of the checkprint that do not have markups to indicate they have been inspected and will fill in the second line of the QC stamp. Following their review, the QC Reviewers/Checkers will return the checkprints to the Originator.

The Originator, acting as the Back-checker, will inspect and confirm the suggested corrections/comments, consolidate and coordinate comments from different QC Reviewers/Checkers, and (if needed) consult with the Checkers and other appropriate person(s) to resolve conflicts. A green check mark will be placed on the checkprint next to the comments that need to be addressed. Comments that are no longer valid, based on discussions between the Originator and the QC Reviewer(s)/Checker(s), will be crossed out with a green "X." A brief explanation will be written in green next to the comment.

Figure 6: Drawing and Calculations QC Stamp

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SUBMITTAL QC CHECKING PROCESS			
	Signature	Date	Discipline
ORIGINATOR (Ready for Checking)			
CHECKER Correct: Yellow Highlight Incorrect: Red Marking Comments: Black Cloud			
BACKCHECKER (Originator) Agree: Green Check Disagree: Green Strike Through			
CORRECTOR Blue Circle			
VERIFIER Correct: Green Circle Incorrect: Red and Blue Print & return to Backchecker New Comment: Black Cloud			
QC Process Approved By:			

After the Originator/Back-checker reviews and addresses all comments on each drawing, he/she will fill in the third line of the QC stamp.

The Originator, acting as the Corrector, will decide on the proper follow-up actions for each comment and direct the CADD staff to perform the required changes on the CADD files. Once the CADD staff makes the corrections to the original CADD file(s), he/she will plot a clean set



of the revised drawing(s). The Originator/Corrector will verify the corrections and, if satisfied, will mark with a blue circle the QC Reviewer's comment on the checkprint. After this task is completed, the Originator/Corrector will fill in the fourth line of the QC stamp and return both the checkprint and the clean drawing(s) to the QC Reviewer.

The QC Reviewer, acting as the Verifier, will compare the revised drawing(s) against the checkprint. If the comment has been properly addressed, the QC Reviewer/Verifier will circle the comment in green. If a comment is not satisfactorily addressed and/or has new comments, the QC Reviewer/Verifier will mark the clean drawing and return both sets (revised drawings and original checkprints) to the Originator and the process will be repeated. The newly marked checkprints will be attached to the original checkprint set for record keeping. At the end of this process, all comments on the checkprints will be circled in blue and green or crossed out in green. After all corrections are verified by the QC Reviewer/Verifier, he/she will fill in the fifth line of the QC stamp.

At the closing of the QC review process, the Originator will deliver to the PM the checkprint(s) and clean copies of the submittal drawing(s). The PM will inspect the checkprint(s) and submittal drawing(s) to verify that the process has been adequately followed, all comments were properly addressed, and the drawing(s) meet LADOTD's expectations. After completing this inspection, the PM will fill in the sixth line of the QC stamp and prepare and sign the QC/QA Certification (see Appendix B). The PM will forward the checkprint(s), the submittal drawing(s), and the signed QC/QA Certification to the QAM.

As a final check, the QAM will verify that the QC review process has been followed by inspecting the check print, the QC stamp, and the submittal drawing(s). If he is satisfied that the process has been followed, the QAM will also sign the QC/QA Certification, which the PM will submit to LADOTD with the submittal drawing(s). If the QAM finds that the process was not adequately followed, he will return the drawing(s) to the PM with instructions for completing the missing elements.

After completion of the QC and QA processes, the PM will file the checkprint(s), a record copy of the submitted drawings, and a copy of the QC/QA Certification in the project files for record keeping. The record copy of submitted drawings shall be in both hard copy paper format and pdf electronic format. The checkprint(s) and the QC/QA Certification may be either hard copy or scanned and saved as an electronic format in the project directory.

3.2.3 Checking of Calculations

Calculations can be manual or computer generated printouts. Manual calculations will be prepared in pencil on the standard WSP computation sheets, shown in Figure 7. A calculation may also include supporting information such as forms, charts, graphs, and data sheets, which must be attached to the computation sheets. Assumptions upon which calculations are based shall be stated in the calculations. Assumptions with limited application should immediately precede the calculations to which they apply.

The QC and QA review processes to be followed for the calculations are the same as the drawings QC and QA review processes, shown in Figure 5.

After completion of his/her task, the Originator (the designer/analyst responsible for the calculations) will create a checkprint with copies of all computation sheets, computer printouts, and other related support attachments. He/she will place the QC stamp, shown in Figure 6,



on the first page of the checkprint, or, if necessary, on the back of the first page to avoid clutter; he/she will fill in the first line of the QC stamp.

Figure 7: WSP Manual Computation Sheet



The Originator will review the data and the Scope of Services with the assigned QC Reviewer/Checker. The Originator will provide the QC Reviewer/Checker with design criteria, copies of pertinent information, and related documents and calculations.

The QC review will include verification of the introductory material on the calculation sheet, the assumptions, and the calculations. The QC Reviewer/Checker will verify that all information is appropriate, correct, complete, consistent, legible, and reproducible. The QC Reviewer/Checker will mark all items on the calculation sheets and printouts to indicate his/her agreement or disagreement and initial the bottom right corner of the pages/sheets that do not have markups to indicate they have been inspected. The following is the color code to be used for marking calculations:

- **Yellow highlight** QC Reviewer/Checker agrees with the calculation, assumption
- **Red marking** calculation, assumption, etc., requiring correction
- **Black marking** relevant comments noted by the QC Reviewer/Checker

Following his/her review, the QC Reviewer/Checker will fill in the second line of the QC stamp and return the checkprint to the calculations Originator. The Originator, acting as the Back-checker, will inspect and confirm the suggested corrections/comments, consolidate and coordinate comments from different QC Reviewers/Checkers, and (if needed) consult with the QC Reviewers/Checkers and other appropriate person(s) to resolve conflicts. Green check marks will be placed on the checkprint next to the comments that need to be addressed. Comments that are no longer valid, based on discussions between the Originator and the QC Reviewer(s)/Checker(s), will be crossed out with a green "X" and a brief explanation will be written in green next to the comment. After completion of this task, the Originator/Back-checker will fill in the third line of the QC stamp.

The Originator, acting as the Corrector, will make the necessary revisions to the calculation sheets and/or printouts to address the comments. As each comment is addressed, the Originator/Corrector circles the comment in blue on the checkprint. After completion of this task, the Originator/Corrector will fill in the fourth line of the QC stamp and print a revised, clean calculations set. Both the checkprint and the clean calculations set will then be returned to the QC Reviewer(s).



The QC Reviewer(s), acting as the Verifier(s), will compare the revised calculations set against the original checkprint. If he/she finds that the comment has been properly addressed, the QC Reviewer/Verifier will circle the comment in green on the original checkprint. If he/she finds that a comment is not satisfactorily addressed and/or has new comments, the QC Reviewer/Verifier will mark the revised calculations set, return both sets to the Originator, and the process will be repeated. The newly marked checkprints will be attached to the original checkprint set for record keeping. At the end of this process, all comments on the checkprints will be either circled in green and blue or crossed out in green. After all corrections are verified by the QC Reviewer/Verifier, he/she will fill in the fifth line of the QC stamp.

At the closing of the QC review process, the Originator will deliver the checkprint(s) and a clean copy of the submittal calculations to the PM. The PM will inspect the checkprint(s) and submittal calculations to verify that the QC process has been adequately followed, all comments were properly addressed, and the calculations meet LADOTD's expectations. After completing this inspection, the PM will fill in the sixth line of the QC stamp and prepare and sign the QC/QA Certification (see Appendix B). The PM will forward the checkprint(s), the submittal calculations, and the signed QC/QA Certification to the QAM.

As a final check, the QAM will verify that the QC review process has been followed by inspecting the checkprint, the QC stamp, and the submittal calculations set. If he is satisfied that the process has been followed, the QAM will also sign the QC/QA Certification, which the PM will submit to LADOTD with the submittal calculations. If the QAM finds that the process was not adequately followed, he will return the checkprint and final calculations set to the PM with instructions for completing the missing elements.

After completion of the QC and QA processes, the PM will file the checkprint(s), a record copy of the submitted calculations, and a copy of the QC/QA Certification in the project files for record keeping. The record copy of submitted calculations shall be in both hard copy paper format and pdf electronic format. The checkprint(s) and the QC/QA Certification may be either hard copy or scanned and saved as an electronic format in the project directory.

3.3 Resolution of Technical Differences

During the QC review process, there may be differences in opinions between the QC Reviewer and the Originator on whether a comment is valid or how it should be addressed. If the QC Reviewer does not agree with the way his/her comment was addressed, he/she will first discuss the matter with the Originator. If the difference in opinion cannot be resolved through the discussion, the QC Reviewer will inform the PM of the issue; the PM will seek the assistance of a senior technical expert to resolve the difference. If necessary, the issue will be taken to the Department Manager and/or Principal-in-Charge for resolution.

3.4 Documentation of Comments and Responses

All comments made by external reviewers – outside of WSP – shall be recorded by memorandums, letters, or marked plans/documents received from the reviewers. In the event that comments are received through meetings with reviewers, minutes summarizing the comments received will be prepared. Comments received by a project team member other than the PM will be forwarded to the PM. Where it is necessary to discuss and clarify the comments with the reviewer(s) prior to responding, the PM shall arrange for the meeting.



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The Project Engineers/Planners/Scientists, who are responsible for the deliverable on which comments were received, will prepare responses to the comments. The responses shall be in writing in a memorandum format and, at minimum, shall include the deliverable's review date, the reviewer's name, the responder's name, the reviewer's comments, and the responses to the comments. The PM will review all comments and responses before submitting them to LADOTD. The comments/responses memorandum is considered a project deliverable and will undergo the document QC and QA review processes discussed in Section 3.2.1. The PM will be responsible for the submittal of the comments/responses memorandum to the appropriate reviewing entity of LADOTD.

After submittal of the comments/responses memorandum to LADOTD, the Project Engineers/Planners/Scientists responsible for the deliverable will make the necessary revisions to the deliverable in accordance with the responses. Each comment/response on the memorandum shall be initialed by the appropriate Project Engineer/Planner/Scientist, indicating that they have verified that the comment response has been adequately implemented.

The PM will maintain copies of the submitted comments/responses memorandums, the QC review checkprints, and the initialed memorandums in the project files.

4.0 QUALITY RECORDS AND AUDITS

4.1 Quality Records

The PM is responsible for maintaining QC and QA records for all project deliverables. At a minimum, the following items will be archived in the project files for each submitted deliverable:

- The QC review checkprint(s); the checkprints can be in various formats
 - paper format with hand written markups
 - electronic Adobe Acrobat Portable Document Format (.pdf) files produced from scanning paper copies and saved in the project's directory (drawings or documents)
 - Electronic Microsoft Word file using the track changes feature and saved in the project's directory (documents)
- A record hard copy of the submitted deliverable; record copies will be stamped as such
- The QC form (for documents only)
- The QC/QA Certification

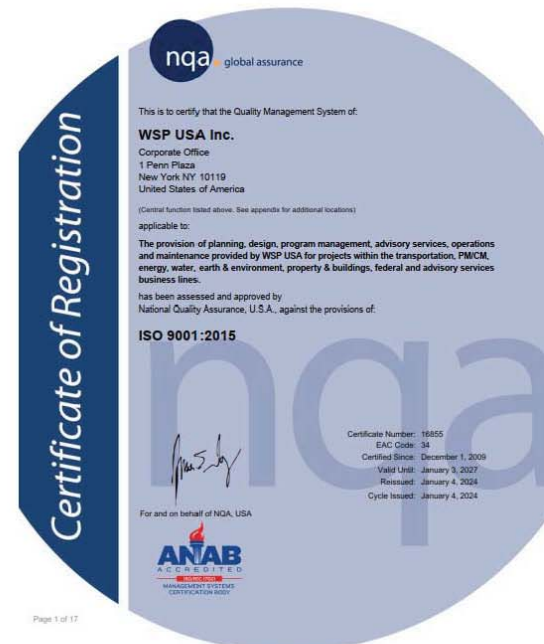
4.2 Internal Quality Audits

In accordance with our QC/QA policy, WSP conducts quality audits for a sampling of projects at each office location. Certified internal auditors who are independent of the projects conduct the project quality audits.



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Appendix A WSP ISO Certificate



Appendix B QC/QA Certification

CERTIFICATE OF COMPLIANCE

TO: Name
LADOTD Project Manager

DATE: Month XX, XXXX

RE: QUALITY ASSURANCE REVIEW

F.A.P. Nos.: H015569
CONTRACT NAME: LA 44-1-10 Roundabouts
TASK DESCRIPTION: XXXXXXXXXXXXXXXXXXXX
COUNTY: XXXXXXXXXXXXXXXXXXXX
SUBMITTED DOCUMENT(S): XXXXXXXXXXXXXXXXXXXX
CONSULTANT: WSP USA Inc.

This is to certify that I have monitored the Quality Control (QC) process and I have completed and documented the required Quality Assurance (QA) review during production of the above noted submittal. Draft writings, associated production and review check prints, and quality control documents for the referenced elements (including those of the sub-consultants) have been evaluated, initialed, and are available in our contract files for review upon request.

This certificate is issued to document our reviews and to confirm that "due or ordinary care" processes were followed in producing the submittal documents. In our professional opinions, these documents meet the standards and requirements and are ready for your review. These requirements include those stipulated in the contract's Scope of Services performance criteria and the LADOTD's policies, standards and preferences.

SIGNED: _____ Date: _____
Michael Craig, PE
Project Manager

SIGNED: _____ Date: _____
Mark Shlyakov, PE
Quality Assurance Reviewer



22. Sub-consultant information:

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
WSP USA Inc.	1100 Poydras Street, Suite 1175, New Orleans, LA 70163	Max Nassar Max.Nassar@WSP.com	(225) 218-3584
Vectura Consulting Services, LLC	4467 Bluebonnet Blvd., Suite A Baton Rouge, LA 70809-9639	Sheelagh Brin Ferlito bferlito@vecturacs.com	(225) 223-6685

(Add rows as needed)

23. Location:

If location is an evaluation criterion for this advertisement and the prime consultant intends to establish a local presence, describe the plan for doing so. Otherwise, leave this section blank.



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