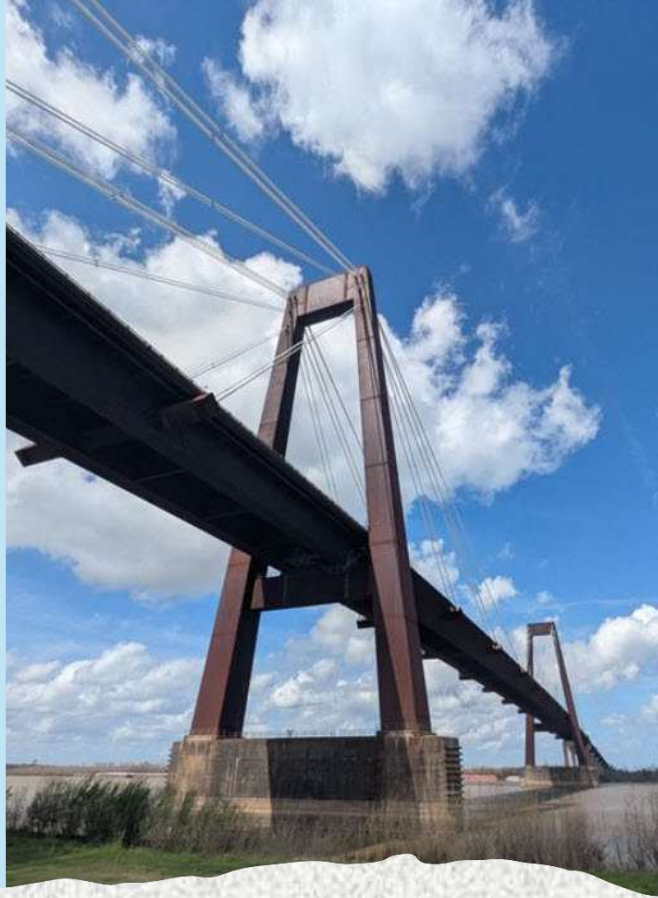




IDIQ CONTRACTS FOR ENGINEERING AND TECHNICAL SUPPORT SERVICES FOR CRITICAL PROJECTS STATEWIDE

Contract Numbers:
4400035363 - 4400035367

June 15, 2026



DOTD FORM: 24-102

(CONTRACT NOS. 4400035363, 4400035364, 4400035365, 4400035366, AND 4400035367)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

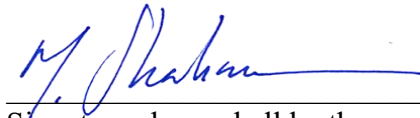
ANY CONSULTANT FAILING TO SUBMIT ANY OF THE INFORMATION REQUIRED ON THE DOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE DOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE.

1. Contract Name as shown in the advertisement.	IDIQ CONTRACTS FOR ENGINEERING AND TECHNICAL SUPPORT SERVICES FOR CRITICAL PROJECTS STATEWIDE
2. Contract Number(s) as shown in the advertisement.	CONTRACT NOS. 4400035363 - 4400035367
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name (name must match exactly as registered with the Louisiana Secretary of State (SOS), where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)	SDR ENGINEERING INC
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF0007639 DUNS Number: 13-005-3597
6. Prime consultant mailing address	2820 Continental Drive, Suite 100, Baton Rouge, LA 70808
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criterion)	2820 Continental Drive, Suite 100, Baton Rouge, LA 70808
8. Name, title, phone number, and email address of the prime consultant's contract point of contact.	Mohsen Shahawy, PhD, PE Principal and COO (850) 222-2737, Ext. 226 shahawy@sdrengineering.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Mohsen Shahawy, PhD, PE Principal and COO (850) 222-2737, Ext. 226 shahawy@sdrengineering.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, the proposer certifies that it is not engaged in a boycott of Israel and that it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.

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

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.



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

06/15/2026

Date:

Firm(s):

Not required.

Firm(s)' %:

12. PAST PERFORMANCE EVALUATION DISCIPLINE TABLE:

Past Performance Evaluation Discipline(s)	% of Overall Contract	SDR (Prime)	TBS	ARD	F&T	GSRC	WGI	VCS	Each Discipline must total to 100%
Bridge	30%	100%	-	-	-	-	-	-	100%
Road	20%	10%	70%	-	-	-	20%	-	100%
Geotech	5%	10%	-	90%	-	-	-	-	100%
Traffic	5%	15%	-	-	-	-	10%	75%	100%
Survey	5%	10%	45%	-	45%	-	-	-	100%
Environmental	5%	10%	45%	-	-	45%	-	-	100%
Other (SUE)	5%	10%	65%	-	-	-	25%	-	100%
Other (Alternate Delivery, ITS, & Other Services)	15%	50%	20%	-	-	-	20%	10%	100%
Other (Project Management)	10%	80%	20%	-	-	-	-	-	100%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.									
Percent of Contract	100%	50.25%	26.75%	4.5%	2.25%	2.25%	8.75%	5.25%	

CONSULTANTS:**SDR: SDR Engineering Inc****GSRC: Gulf South Research Corporation****ARD: Ardaman & Associates, Inc.****WGI: WGI, Inc.****TBS: T. Baker Smith, LLC****VCS: Vectura Consulting Services, LLC****VECTURA****F&T: Forte & Tablada, Inc.**

13. TEAM SIZE:

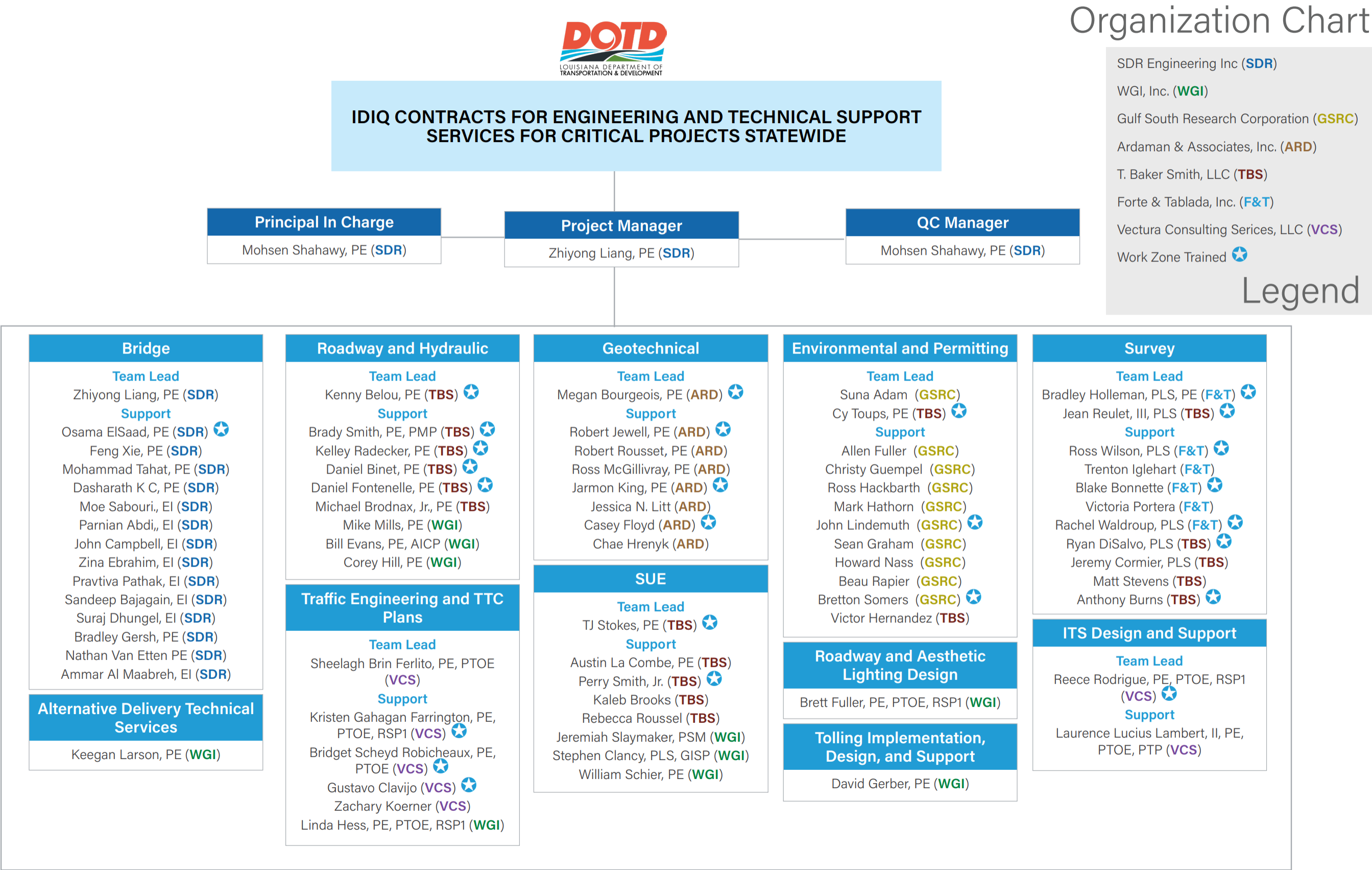
Firm name	DOTD Job Classification	Number of personnel <u>committed</u> to this contract *	Total number of personnel available in this DOTD Job Classification (if needed)
SDR Engineering Inc 	Principal	1	2
	Supervisor - Eng	2	3
	Engineer	8	12
	Engineer Intern	8	11
	Inspector - Bridge	6	6
	CADD Drafter	1	2
	Computer Analyst	1	1
	Administrative	1	2
T. Baker Smith, LLC  T. BAKER SMITH	Supervisor - Eng	2	4
	Engineer	6	8
	Surveyor	3	3
	Senior Technician	4	4
	Technician	1	2
	CADD Technician	1	2
	Environmental Manager	1	1
	Environmental Pro	1	3

Ardaman & Associates, Inc. 	Administrative	1	1
	CADD Technician	2	2
	Clerical	1	2
	Engineer	1	6
	Engineer Intern	3	6
	Principal	2	3
	Senior Technician	8	9
	Supervisor - Eng	3	3
	Supervisor - Other	3	4
	Technician	11	15
Forte & Tablada, Inc. 	Principal	1	2
	Surveyor	3	5
	Supervisor - Other	1	1
	Senior Technician	1	2
	Clerical	1	1
Gulf South Research Corporation 	Supervisor - Other	4	6
	Archaeologist	3	4
	Biologist/Wetlands	4	8
	GIS Analyst	2	2
	Clerical	2	2

	Principal	1	2
	Supervisor - Eng	3	5
	Engineer	6	9
	Engineer Intern	6	8
	Surveyor	3	5
	Technician	3	6
	Supervisor - Eng	2	2
	Engineer	3	5
	Engineer Intern	2	2
	Inspector	0	2
	Supervisor – Other	1	1

***For evaluation purposes only**, and as referenced in the Scope of Services on page 2 of IDIQ advertisements only, the consultant shall assume the number of concurrently active task orders specified in the advertisement and shall identify the number of **committed** personnel accordingly.

14. ORGANIZATIONAL CHART:



15. MINIMUM PERSONNEL REQUIREMENTS:

MPR No. Do not insert wording from ad	Personnel are being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	The firm employed by	Type of license and discipline meeting MPR/ certification and number (Ex: PE # - Civil)	State of license	License/certificat ion expiration date
1	Mohsen Shahawy, PhD, PE		PE.31465 - Civil	LA	03/31/2027
2					
3					
4	Cy Toups, PE		PE.33966 - Environmental	LA	09/30/2026
	Ross Hackbarth		N/A	N/A	N/A
5	Sheelagh Brin Ferlito, PE, PTOE	VECTURA	PE.25383 – Civil	LA	09/30/2027
6	Bradley S Holleman, PLS, PE		PLS.5082 - Surveyor	LA	09/30/2026
	Jean Reulet, III, PLS		PLS.5145 - Surveyor	LA	03/31/2028
7	Bradley S Holleman, PLS, PE		PLS.5082 - Surveyor	LA	09/30/2026

	Jean Reulet, III, PLS		PLS.5145 - Surveyor	LA	03/31/2028
8	TJ Stokes, PE		PE.40079 - Industrial	LA	03/31/2028
	William Schier, PE		PE.43079 – Civil	LA	03/31/2027
9	Megan Bourgeois, PE.		PE.36725 - Civil	LA	03/31/2028
10	Kenny Belou, PE		PE.38850 - Civil	LA	09/30/2026
11	Zhiyong Liang, PhD, PE		PE.34873 - Civil	LA	03/31/2028

16. STAFF EXPERIENCE:

Firm employed by: SDR Engineering Inc					
Name	Mohsen Shahawy, PhD, PE		Years of relevant experience with this employer	26	
Title	Principal and COO		Years of relevant experience with other employer(s)	15	
Degree(s) / Years / Specialization		PhD / 1984 / Civil Engineering MS / 1981 / Civil Engineering BS / 1976 / Civil Engineering			
Active registration number/state/expiration date		PE.31465 / Louisiana / 03-31-2027			
Year registered	2004	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities		Principal in charge, design, management, Quality Assurance/Quality Control (QA/QC). Satisfies MPR #1 - #3			
Dr. Shahawy is the managing principal of SDR. He has 40 years of experience and has published over 180 papers in the areas of prestressed/reinforced concrete performance, load and resistance factor design (LRFD) code issues related to shear performance, structural testing, evaluation, load testing, and load rating of bridges, dynamic behavior of bridges, and bridge rehabilitation. He is a Co-author of the Prestressed Concrete Institute Bridge Design Manual. He has led SDR's team in developing the DOTD Bridge Design and Evaluation Manual (BDEM) and the LG Girder Details and Design Standards. He has been responsible for the design of <u>more than 90 bridges with spans ranging up to 280 feet</u>, the production of conceptual reports for 40 bridges, and design peer reviews of more than 300 bridges for various authorities.					
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).				
08/19–Present	H.011309: MacArthur Interchange Completion, Phase II, Jefferson Parish, LA The scope of work was to provide two new on-ramps and off-ramps between the eastbound of West Bank Expressway (US 90-Z) and Frontage Road, demolish the existing off-ramp, and widen the US 90-Z bridge to accommodate the new ramps. The project consisted of providing all necessary engineering design services (Stage 3) to construct the two separate ramp structures and to relocate Frontage Road. To accommodate the new structures for the two ramps, Frontage Road required relocation along with utilities while maintaining all business access. Role(s): performed independent QA/QC of all structure elements and guided the project team to address review comments at every stage.				
10/16–04/21	H.002980: I-10 over US 165 and MP Railroad, Jefferson Davis Parish, LA Replacement of two I-10 bridge overpasses at US 165 and MP Railroad. East-bound total bridge length is 765 feet, comprising seven spans. Four spans were made into one continuous unit; the other three spans were continuous units. Design included all elements of the bridge structure along with the required slope and embankment work. Replacement of the bridge involved complex construction phasing to <u>maintain traffic on the interstate while removing the old structure and constructing the new bridge</u>. To ensure design economy and accelerated construction, DOTD standard precast prestressed concrete girders (LG Girders) were used for the superstructure. Role(s): lead the development of the construction phasing and carry out QA/QC review of the design.				

11/17–10/20	H.011484: US-80 Texas Street Bridge Rehabilitation, Shreveport, LA The bridge consists of a main truss span comprised of two 182-foot anchor spans and one 520-foot steel cantilever span, six 102.75 foot steel deck truss spans, one 91-foot steel girder span, and 35 reinforced concrete deck girder approach spans of varying span lengths. The scope of work consisted of conducting National Bridge Inspection Standards (NBIS) element level inspection of the entire bridge, 3-D computer modeling and analysis of existing deficiencies, load rating based on existing conditions, developing scope of rehabilitation including cleaning and painting of steel trusses, design of epoxy-urethane overlay system on deck, Carbon Fiber Reinforced Polymer (CFRP) repair of concrete spall for columns, caps and concrete beams, strengthening of steel truss span members, strengthening floor beams and gusset plates, repair of steel plate girder spans, and sealing of joints and pin replacement. Role(s): performed independent QA/QC of all above-listed work elements and guided the project team to address review comments at every stage.
10/18–02/21	H.011487: LA 182 Over Atchafalaya River (Berwick Bay) Bridge Rehabilitation, Lafayette, LA The bridge, built in 1933, is a through truss carrying LA-182 over the Atchafalaya River. The bridge consists of three main trusses with a span length of 608 feet each, two deck trusses with a span length of 126 feet each, and 40 concrete T-beam spans with a span length of 40 feet each. The work included performing an in-depth inspection of the truss and concrete spans, NDT of the concrete T-beams, load rating the bridge based on observed deficiencies, 3-D computer modeling of the truss spans, analysis including design and developing repair details for the steel truss members, gusset plates, reinforced concrete T-beam and deck slab, preparing rehabilitation plans and technical special provisions, and construction cost estimate. Role(s): independent QA/QC of all above-listed work elements and provided guidance to the project team to address review comments at every stage.
07/15–06/17	H.005380.5: Evaluation and Load Rating of Three Major Truss Bridges, Statewide, LA This project was a complete evaluation and load rating of three major truss bridges, including the approach spans: Mississippi River Bridge at Vicksburg (4,210 feet), Sunshine Bridge at Donaldsonville (8,236 feet), and I-10 Calcasieu River Bridge at Lake Charles (6,617 feet). The bridges consisted of main steel truss spans, prestressed concrete or steel approach spans, and reinforced concrete or steel bent caps. Role(s): Project Manager, lead engineer. <u>Responsibilities included:</u> QC review of all inspection reports, structural assessment of found deficiencies, and determining the effect of steel section loss for both members and gusset plates on load rating; developing structural modeling parameters and supervising the team developing the 3-D finite element model for the main truss using LUSAS; and load rating all elements of the truss spans.
06/86–10/00	Complex Bridge Evaluation and Design, Statewide, FL Evaluation and design of complex bridges in Florida. Sample projects include: • Indian River, Vero Beach, FL, Bridge No. 880054 • Big Carlos bridge (#120028), Lee County, FL • Oakland Boulevard, Fort Lauderdale, FL, Bridge No. 860941 • Longboat bridge (#130057), Sarasota, FL • S.R. 706, Jupiter, FL, Bridge No. 930007 • Laurel street bridge (#105503), Tampa, FL • Delray Beach, FL, Bridge No. 930064

Firm employed by: SDR Engineering Inc



Name	Zhiyong Liang, PhD, PE	Years of relevant experience with this employer	17
Title	Vice President	Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization	PhD / 2008 / Civil Engineering MS / 2004-2005 / Civil Engineering-Computer Science BS / 1996 / Civil Engineering		
Active registration number/state/expiration date	PE.34873 / Louisiana / 3-31-2028 FHWA-NHI Bridge Inspection Training		
Year registered	2009	Discipline	Civil Engineering-Structures
Contract role(s) / brief description of responsibilities	Project management, bridge inspection, and bridge design. Satisfies MPR #11		



Dr. Zhiyong Liang specializes in the inspection, design, load rating, and condition evaluation of steel and concrete bridges. He has served as both Project Manager and Engineer of Record on numerous successful projects involving bridge inspection, load rating, design, testing, and rehabilitation. With a multidisciplinary background in Civil Engineering and Computer Science, Dr. Liang brings a unique blend of technical expertise and innovation to his work. He is proficient in operating a wide range of bridge inspection and testing equipment, conducting advanced data analysis, and developing custom software tools to support bridge assessment and data management. Dr. Liang has a strong foundation in finite element modeling (FEM) and structural analysis, complemented by extensive hands-on experience at bridge sites. He played a key role as Lead Engineer in the development of the DOTD BDEM, contributing to statewide standards and practices. He is also certified through the FHWA-NHI Bridge Inspection Training Program and is qualified to serve as a bridge inspection manager and team leader.

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).
08/19 – Present	H.011309: MacArthur Interchange Completion, Phase II, Jefferson Parish, LA The scope of work is to provide two new on-ramps and off-ramp connections between the eastbound of West Bank Expressway (US 90-Z) and Frontage road, demolish the existing off-ramp, and widen the US 90-Z bridge to accommodate the new ramps. The project consisted of providing all necessary engineering design services (Stage 3) to construct the two separate ramp structures and to relocate the Frontage road. To accommodate the new structures for the two ramps, the Frontage road required relocation along with utilities while maintaining all business access. SDR is the prime consultant, and <u>Dr. Liang's responsibilities</u> include leading the design and plan development of the superstructure. • QA/QC review of substructure design and plans production. • Lead construction cost estimate.
10/18–Present	H.011487: LA 182 Over Atchafalaya River (Berwick Bay) Bridge Rehabilitation, Lafayette, LA The bridge consists of three main trusses with a span length of 608 feet each, two 126-foot deck truss spans, and 40 concrete T-beam spans with a length of 40 feet. The scope included inspection, load test, load rating, and rehabilitation design of the entire bridge. SDR is the prime consultant, and Dr. Liang served as the Project Manager, overseeing the following tasks: • Led the in-depth inspection and non-destructive test (NDT) using strain gauges. • Led load rating and rehabilitation scope development.

	Led the rehab design and preparation of construction plans.
11/15-10/17	H.011484: US-80 Texas Street Bridge Rehabilitation, Shreveport, LA The bridge consists of a main truss span comprised of two 182-foot anchor spans and one 520-foot steel cantilever span, six 102-foot 9-inch steel deck truss spans, a 91-foot steel girder span, and 35 reinforced concrete deck girder approach spans of varying span lengths. As the project manager, Dr. Liang was responsible for coordinating all activities with the DOTD project manager and participating in the following tasks: - Led the inspection and load rating activities. - Review the estimated quantities and prepare the final report. - Led design of the rehabilitation schemes and prepared the final plans. - Construction Support.
03/15-08/15	H.009859.5: Inspection and Load Rating of 18 Load-Posted Complex Bridges, Statewide, LA This project was to assess 18 load-posted complex bridges that are located on state-approved truck routes, with the ultimate goal of eliminating their current postings. Bridge types include truss bridges, movable bridges, and pontoon bridges. The scope included collecting and compiling all pertinent information, load rating the bridges using standard analysis, performing an in-depth field investigation of the superstructures and substructures, analyzing and rating deficient structures using refined 3-D FEM analysis, and providing a detailed evaluation report. Four movable bridges were assessed in this project. SDR was the prime consultant, and Dr. Liang served as the Project manager overseeing the different tasks and leading the bridge inspection, assessment, and load rating.
07/13–04/15	H.010498: Luling Bridge Rehabilitation, St. Charles Parish, LA The project was the evaluation and rehab of Luling Bridge (Hale Boggs Memorial Bridge), a five-span cable-stayed bridge with twin steel towers supporting the cables and a floor beam-stringer deck system. <u>Dr. Liang's responsibilities were as follows:</u> - In-depth inspection of the bridge. - Load rating of the main cable-stayed spans using 3D finite element analysis. - Investigation of the cause of fatigue cracks and development of rehab plans.
03/10-05/12	H.005380.5: Evaluation and Load Rating of Three Major Truss Bridges, Statewide, LA This project was a complete evaluation and load rating of three major truss bridges, including the approach spans: Mississippi River Bridge at Vicksburg (4,210 feet), Sunshine Bridge at Donaldsonville (8,236 feet), and I-10 Calcasieu River Bridge at Lake Charles (6,617 feet). The bridges consisted of main steel truss spans, prestressed concrete or steel approach spans, and reinforced concrete or steel bent caps. Dr. Liang was the project manager and was involved in every detail of this project: - Determine the overall scope of the project and the major analysis methods/software to be used. - Review the inspection report and determine the effect of section losses and deficiencies on load rating. - Build the finite element model for the main truss and rate the truss members and gusset plates. - Load rate the approach spans using VIRTIS; load rate the substructure using RC-Pier and spreadsheets. - Write the final report and supervise the junior engineers.

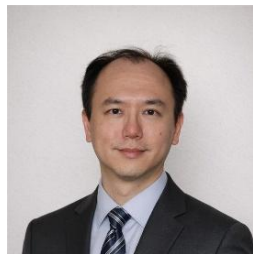
Firm employed by: SDR Engineering Inc					
Name	Osama Elsaad, ME, PE		Years of relevant experience with this employer	10	
Title	Structural Engineer and Project Manager II		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			ME / 2017 / Civil Engineering (Structural) BS / 2016 / Civil Engineering		
Active registration number/state/expiration date			PE.45668 / Louisiana / 09-30-2027 FHWA-NHI Bridge Inspection Training		
Year registered	2021	Discipline	Civil Engineering-Structures		
Contract role(s) / brief description of responsibilities			Deputy Project Manager		
Osama is a structural engineer with 10 years of experience. His involvement in projects has included on-site inspection, bridge instrumentation and load testing, emergency bridge repair projects, bridge design, load rating evaluation, rehabilitation projects, and quantity/cost estimate preparation. He has been a Project Manager on multiple bridge design projects, bridge inspections, and bridge instrumentation and load testing. He has also completed the FHWA-NHI Bridge Inspection Training.					
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).				
07/24-Present	H.010015 LA 143 Bayou D'Arbonne Bridge, Ouachita Parish, LA The scope of work is to design and develop a new bridge to replace the existing bridge over Bayou D'Arbonne. The project consists of providing all necessary engineering design services (Stage 3) required to construct the new bridge structure. The new bridge consists of prestressed concrete LG-45 girders with a total bridge length of 500 feet. <u>As deputy project manager, Osama's responsibilities were as follows:</u> • Supervise the execution of the design calculations and plan development. • Design the superstructure. • Construction cost estimate. • QA/QC review of bridge design plans.				
11/25-03/26	H.016525 TO No.2: US80 Mile Creek Bridge, Webster Parish, LA The scope of work is to conduct an initial inspection of the existing substructure condition, provide training to LADOTD maintenance personnel on the substructure restoration and preparation, CFRP application, Quality Control procedures, and UV coating application, prepare a final report documenting the completed repairs, and develop a Load Rating Report incorporating the repairs. <u>As project manager, Osama's responsibilities were as follows:</u> • Led inspection, field restoration, and CFRP application training. • Led load rating and rehabilitation report.				
02/25-06/25	I-110 NB at Convention St. Fire Damage repair, East Baton Rouge Parish, LA The bridge was subjected to fire that damaged the substructure and superstructure. The scope of the project includes in-depth inspection, rehabilitation plans, and construction support. The rehabilitation plans consisted of cleaning and painting, concrete restoration of the substructure, and CFRP laminate application to the bent caps, columns, and risers. <u>As project manager, Osama's responsibilities were as follows:</u> • Supervise the execution of the in-depth inspection.				



	• Supervise the execution of the rehabilitation plan development. • Construction cost estimate. • QA/QC review of rehabilitation plans. • Post-rehabilitation construction support.
11/24-07/25	Wilson Island Bridge over Palatlahaha River, Lake County, FL The scope of work is to design a new bridge over the Palatlahaha River in Lake County, FL. The project consists of providing all necessary engineering design services (Stage 3) required to construct the new bridge structure. The new bridge consists of prestressed concrete FIB-36 girders with a total bridge length of 100 feet. <u>As project manager, Osama's responsibilities were as follows:</u> • Supervise the execution of design calculations and plan development. • Design the superstructure. • Construction cost estimate. • QA/QC review of bridge design plans.
08/23-06/25	H.009730.5: IDIQ for Bridge Inspection, Statewide, LA The scope was to perform a routine, in-depth, and fracture critical inspection of the bridges and create an inspection report in InspectX. The inspection was in conformance with the AASHTO Manual for Bridge Evaluation, the NBIS, and the LADOTD Bridge Inspection Manual. <u>As the project manager, Osama led in-depth inspections; condition assessment and identified deficiencies; coordinated with subcontractors; QA/QC of inspection reports and quantities; recommended rehabilitation actions; and developed rehabilitation plans.</u> • US-190 over Mississippi River Bridge, East Baton Rouge, LA • US-80 Texas Street over Red River Bridge, Bossier Parish, LA • I-20 over Mississippi River Bridge, Delta, LA • LA 27 Bridge over ICWW Gibbstown, Cameron Parish, LA • LA 3213 over Mississippi River Bridge, Gramercy, LA
05/17-03/26	Evaluation and Load Testing, Statewide, LA The work consisted of plan review, planning, instrumentation, conducting diagnostic and proof load testing, and developing rehabilitation plans as directed by DOTD. For each bridge, a comprehensive report was created, including the NDT and load test results, load rating, rehabilitation recommendations, and rehabilitation plan development. <u>As project manager, Osama's responsibilities were as follows: planning all aspects and supervising the execution of each project task; conducting QA/QC; preparing load rating and final reports; preparing rehabilitation plans.</u> • H.009859.5 TO No. 1: Load Rating of 300 Bridges, Statewide, LA • 4400017310: Task Order No. #8 NDT, Statewide, LA • H.009859: LA0001 Over Plaquemine Bridge, Iberville Parish, LA • H.012485.1: Load Testing and Evaluation of 19 Bridges, Statewide, LA • H.009859.5: Load Testing and Evaluation of Substructures of Five Bridges, Statewide, LA • H.009859.5: Evaluation and Load Testing of Substructure of Nine Bridges, Statewide, LA • H.009859.5: Evaluation and Load Testing of Five Posted Bridges, Statewide, LA • H.009859.5: Load Rating and Rehabilitation of LA 3094 Bridge Over KCS RR, Caddo Parish, LA

Firm employed by: SDR Engineering Inc



Name	Feng Xie, PhD, PE		Years of relevant experience with this employer	10	
Title	Structural Engineer and Project Manager II		Years of relevant experience with other employer(s)	1	
Degree(s) / Years / Specialization			PhD / 2026 / Civil Engineering-Structures MS / 2014 / Civil Engineering-Structures BS / 2012 / Civil Engineering-Structures		
Active registration number/state/expiration date			PE.43987 / Louisiana / 03-31-2028 FHWA-NHI Bridge Inspection Training		
Year registered	2019	Discipline	Civil Engineering-Structures		
Contract role(s) / brief description of responsibilities			Deputy Project Manager		

Dr. Feng is a seasoned engineer with extensive experience in bridge inspection, load rating, and rehabilitation. He oversees in-depth inspections, structural analysis, rehabilitation planning, and construction support. Dr. Feng has managed and performed load ratings for hundreds of bridges statewide, including complex steel, concrete, truss, movable, and culvert structures, and has applied NDT methods. He brings strong technical expertise, quality control experience, and a practical approach to extending bridge service life.

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).
01/23-08/24	H.015352.5: US 190 and US 61 Overpass Int. Repairs / Construction Support, East Baton Rouge Parish, LA The project involved bridge repair, strengthening, and post-design construction support for the US 190 over US 61 bridges. The work included in-depth inspection, load testing, repair and strengthening recommendations, rehabilitation plan development, and construction-phase support. <u>As deputy project manager, Dr. Xie’s responsibilities included:</u> • Led the in-depth bridge inspection to document existing conditions and identify deficiencies. • Reviewed structural analysis and plan development for bridge strengthening and preservation. • Developed and reviewed the repair/rehabilitation plan to address deficiencies and extend the bridge service life. • Provided post-design construction support.
03/23-06/23	H.015034: LA 308 and 3162 MB RPRS (GLDN MDW and GALL) (HBI), Lafourche Parish, LA The Bayou Lafourche bridge is movable in poor condition with a steel tower vertical lift main span and concrete slab approach spans. The project objective was to inspect the bridge, identify deficient elements, and develop a rehabilitation plan for preservation of the structure. <u>As lead engineer, Dr. Xie’s responsibilities were as follows:</u> • Led and performed the in-depth bridge inspection to verify conditions and identify deficient components. • Reviewed the bridge inspection report, repair recommendations, load rating model, and rehabilitation plan.
05/21-04/22	H.014288.5-2: LA 82 Mermentau River MB (G Chenier) Bridge Rehabilitation, Cameron Parish, LA This movable preservation priority bridge includes a 204-foot swing steel low truss main span, concrete slab approach spans, and steel I-beam approach spans. The assignment involved bridge inspection, deficiency evaluation, structural analysis, repair and strengthening design, and plan development. <u>As task manager, Dr. Xie’s responsibilities were as follows:</u> • Prepared for bridge inspections and evaluated structural members for deficiencies. • Performed structural analysis and designed repair and strengthening details for structural members.



	Led the development of the rehabilitation plan and repair recommendations.
04/21-08/21	H.009859.5: Rehabilitation of LA 3094 Bridge, Shreveport, LA The LA 3094 Bridge over the Kansas City Southern Railroad was in poor condition and required a rehabilitation design. The work included detailed inspection, load testing, test data processing, deficiency documentation, report preparation, and repair recommendations. <u>As a field engineer, Dr. Xie's responsibilities were as follows:</u> - Performed in-depth bridge inspection and measured deteriorated structural members in detail. - Conducted load testing with dump trucks and reviewed rehabilitation design and reports.
09/20-02/21	H.009730.5: Bridge Deck Evaluation Using Ground Penetrating Radar, Statewide, LA The project used NDT methods to evaluate the overall deck condition of five selected bridges statewide and prepare deck condition reports. <u>As lead engineer, Dr. Xie's responsibilities were as follows:</u> - Managed the work schedule and project progress for field investigation and evaluation activities. - Performed field inspection, data processing, and interpretation, and prepared condition assessment reports.
10/18-12/25	H.011487: LA 182 over Atchafalaya River (Berwick Bay) Bridge Rehab. / Construction Support, Lafayette Parish, LA This project involved the development of a rehabilitation plan for the Long-Allen Bridge, including major truss and concrete approach span components. The project included inspection, load testing, load rating analysis review, repair recommendations, plan development, and construction support. <u>As an engineer, Dr. Xie's responsibilities were as follows:</u> - Performed bridge inspection, conducted load testing, developed and reviewed the rehabilitation plan. - Reviewed shop drawings and provided post-design construction support.
01/16-07/17	H.011484: US 80 Texas Street Bridge Rehabilitation / In-Depth Inspection and Rating, Shreveport, LA This project included in-depth inspection, load rating, and rehabilitation planning for a major truss bridge with steel truss spans, a steel girder span, and reinforced concrete approach spans. <u>As an engineer, Dr. Feng's responsibilities were as follows:</u> - Performed in-depth field investigations of bridge members and documented member conditions. - Prepared inspection/report documentation and supported the development of the truss rehabilitation plan.
10/18-present	Statewide Bridge Load Rating, Statewide, LA The work consisted of reviewing plans and inspection records, assessing conditions, developing load rating models, making repair or strengthening recommendations, and preparing load rating reports. <u>As Deputy Project Manager/Lead Engineer, Dr. Xie managed schedules and task assignments, developed/reviewed rating models, and supported repair/rehabilitation recommendations. Relevant completed and ongoing load rating task orders include:</u> 44-31061 TO No. 1 (H.009859.5): Load Rating of 300 Bridges, Statewide, LA 44-31060 TO No. 2 (H.012485.5): Load Rating of 117 Off-System Bridges, Statewide, LA 44-21595 TO No. 8 (H.009859.5): Load Rating of 32 Bridges, Statewide, LA 44-21595 TO No. 7 (H.009859.5): Load Rating of 89 Bridges, Statewide, LA 44-17310 TO No. 7 (H.009859.5): Load Rating and Influence Line of 104 Bridges, Statewide, LA 44-21595 TO No. 5 (H.009859.5): Load Rating of 114 Bridges, Statewide, LA 44-09423 TO No. 14 (H.009859): Load Rating of 36 Bridges, Statewide, LA 44-09423 TO No. 8 (H.012485.5): Load Rating of 617 Off-System Bridges, Statewide, LA

Firm employed by: SDR Engineering Inc



Name	Mohammad Tahat, PhD, PE	Years of relevant experience with this employer	3
Title	Structural Engineer and Project Manager II	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	PhD / 2023 / Civil Engineering MS / 2019 / Civil Engineering BS / 2015 / Civil Engineering		
Active registration number/state/expiration date	PE. 0049473/ Louisiana / 03-31-2027		
Year registered	2024	Discipline	Civil Engineering-Structures
Contract role(s) / brief description of responsibilities	Structural Bridge Engineer, bridge design, bridge inspection		



Mohammad is a structural engineer with three years of experience focusing on on-site inspection, bridge instrumentation and load testing, bridge repair projects, bridge design, load rating evaluation, rehabilitation projects, and quantity/cost estimate preparation. He has contributed to numerous projects involving load rating analysis and reporting, with experience across a wide range of structures, including concrete, steel, truss, and other complex bridge systems.

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).
07/24-Present	H.010015 LA 143 Bayou D'Arbonne Bridge, Ouachita Parish, LA The scope of work is to design and develop a new bridge to replace the existing bridge over Bayou D'Arbonne. The project consists of providing all necessary engineering design services (Stage 3) required to construct the new bridge structure. The new bridge consists of prestressed concrete LG-45 girders with a total bridge length of 500 feet. <u>Dr. Tahat's responsibilities were as follows:</u> • Design the substructure. • Design the sheet piles. • Design plan development. • QA/QC review of bridge design plans.
07/24-Present	H.009859.5 Load Rating of 114 Bridges H.009859.5: TO # 7 Load Rating of 89 Bridges H.009859.5: 44-31061 TO1 Load Rating of 300 Bridges H.012485.5: TO #2_ H.01248.5 Off-system 117 BR Performed load rating of concrete bridges, steel bridges, and culverts, including truss bridges, swing spans, railroad flat car bridges, and curved steel bridges. Mohammad was responsible for load rating complex bridges using 3-D FEM and specialized analyses to determine accurate ratings and prepare load rating reports. He also served as a reviewer for numerous bridges in these projects.
07/25-11/25	I-20 OVER LAKE SHORE DRIVE AND KCS RR – PHASE I The scope of work is to evaluate and develop a rehabilitation scope of work for four existing bridges carrying I-20 over Lake Shore Drive and KCS Railroad. The project consists of performing detailed bridge inspections, load rating analyses, and developing rehabilitation recommendations as part of Phase I. The work includes evaluating both superstructure and substructure elements in accordance with LADOTD guidelines. <u>Dr. Tahat's responsibilities were as follows:</u> • Conduct site inspections to assess existing bridge conditions.

	• Perform load rating analysis for concrete and steel bridge components. • Evaluate rehabilitation alternatives and develop scope recommendations. • Prepare quantity for proposed rehabilitation work. • Develop construction cost estimates.
02/25-06/25	110 NB at Convention St. Fire Damage repair, East Baton Rouge Parish, LA The bridge was subjected to fire that damaged the substructure and superstructure. The scope of the project includes in-depth inspection, rehabilitation design and plans, and construction support. The rehabilitation plans consisted of cleaning and painting, concrete restoration of the substructure, and CFRP laminate application to the bent caps, columns, and risers. <u>Dr. Tahat's responsibilities were as follows:</u> • Conduct in-depth site inspection. • Perform structural evaluation and design of rehabilitation measures. • Prepare quantity take-offs and construction cost estimates. • Prepare rehabilitation report.
11/24-07/25	Wilson Island Bridge over Palatlahaha River, Lake County, FL The scope of work is to design a new bridge over the Palatlahaha River in Lake County, FL. The project consists of providing all necessary engineering design services (Stage 3) required to construct the new bridge structure. The new bridge consists of prestressed concrete FIB-36 girders with a total bridge length of 100 feet. <u>Dr. Tahat's responsibilities were as follows:</u> • Design the Substructure. • Design the sheet piles. • Design plan development. • QA/QC review of bridge design plans.
08/23-11/24	In-depth and Routine Bridge Inspection, Statewide, LA The scope was to perform a routine, in-depth, and fracture-critical inspection of the bridge and create an inspection report in InspectX. The inspection was in conformance with the AASHTO Manual for Bridge Evaluation, the NBIS, and the LADOTD Bridge Inspection Manual. As the bridge engineer, Mohammad is responsible for the following tasks: Inspecting bridge elements, calculating quantities, and uploading the InspectX inspection report. Relevant completed and ongoing load rating task orders include: • H.009730.5 TO#1: LA 3213 over Mississippi River Bridge, Gramercy, LA • H.009730.5 TO#3: I-20 over Mississippi River Bridge, Vicksburg, MS • H.009730.5 TO#3: US-80 Texas Street over Red River Bridge, Shreveport, LA

Firm employed by: SDR Engineering Inc



Name	Nathan Van Etten, PE		Years of relevant experience with this employer	1
Title	Structural Engineer		Years of relevant experience with other employer(s)	19
Degree(s) / Years / Specialization			MS / 2008 / Structural Engineering BS / 2006 / Civil Engineering	
Active registration number/state/expiration date			PE. 73756 / Florida / 02-28-2027 PE. 51556 / Louisiana / 09-30-2026	
Year registered	2026	Discipline	Civil Engineering-Structures	
Contract role(s) / brief description of responsibilities			Structural Bridge Engineer	





Nathan is a bridge engineer with experience in the design of horizontal bridge structures and vertical buildings. Bridge structure experience includes the following bridge types: segmentally erected concrete box girders, steel box girders, steel plate girders, prestressed concrete beams, and reinforced concrete flat slabs.

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).			
03/25-02/26	SR 865 (San Carlos Boulevard) from Estero Boulevard to CR 869 (Summerlin Road), FL, FDOT District 1 Nathan designed the proposed lightweight steel TL-4 railing retrofit to improve pedestrian access over Matanzas Pass. The design effort included coordination with the FDOT Structural Design Office and FDOT District 1 staff to meet all FDOT and the National Cooperative Research Program criteria. SR 865 (San Carlos Boulevard) is the main access to Fort Myers Beach. The project reconfigured existing travel lanes to provide two inbound lanes to the beach and pedestrian-bicyclist connectivity on both sides of SR 865. The scope included widening the Matanzas Pass Bridge to accommodate a new shared-use path and reconfiguring the lanes on the Hurricane Bay Bridge to accommodate a new barrier-separated pedestrian path. Due to multiple municipal agencies involved, an extensive public involvement effort was performed for the Town of Fort Myers Beach, Lee County, and Lee-Tran. The design of this project was coordinated with a concurrent PD&E study conducted by FDOT District 1 staff.			
04/24-10/25	Western Beltway (SR 429) Resurfacing and Safety Improvements from MP 1.9 to 5.5, Osceola County, FL, Florida's Turnpike Enterprise Nathan was a project structural engineer who performed design calculations and structural details. FPIDs: 440289-1 and 440290-1: The project consists of completing final design plans and construction specifications for the resurfacing and safety improvements of the Western Beltway (SR 429) in Osceola County. The project design scope incorporated roadway design activities, including typical section package and variation and exception report development, pavement rehabilitation calculations, signing and pavement marking upgrades and replacement, drainage structure modifications and repairs, structural analysis for new signs and miscellaneous structures, highway lighting upgrades and retrofits, and upgrading existing Intelligent Transportation Systems (ITS) infrastructure. WGI was responsible for roadway, drainage, signing, and pavement marking design, lighting and plans production, structures design and plans production, environmental permitting, utility coordination, subsurface utility exploration, and survey and mapping services.			
08/23-10/25	SR 429 (Wekiva Parkway) Section 6 Design-Build, Lake and Seminole Counties, FL, FDOT District 5			



	Nathan was the lead engineer for the single-span tolling gantry over both directions of travel. FPID: 238275-7: This project designed and constructed 5.5 miles of new alignment limited-access toll road, mainly along the existing SR 46 corridor, from west of Old McDonald Road to east of Osprey Hammock Trail. The design included realigning SR 46 as a non-tolled service road for local travel parallel to the Wekiva Parkway. The project constructed three new 2,000-foot-long bridges over the Wekiva River – one of only two federally listed National Wild and Scenic Rivers in Florida. Three wildlife crossing bridges – 5,700 feet in total – were constructed to provide safe passage for animals between Seminole State Forest and Rock Springs Run State Reserve. Portions of the old SR 46 and CR 46A roadbeds were demolished, regraded, and replanted to create natural conditions conducive to wildlife usage. A new public entrance road was designed and permitted for the Rock Springs Run State Reserve. A multi-use trail runs the full length of the project, with overlook areas incorporated into the wildlife crossing bridges. Other services included mainline all-electronic toll gantry site design, reconfiguring local connector roads between remaining sections of CR 46A and SR 46, drainage design and stormwater permitting through the Florida Department of Environmental Protection (FDEP), lighting, ITS, signing and pavement markings, utility coordination, and 68 gopher tortoise relocations. The design-build team used 13 alternative technical concepts to reduce impacts on traffic during construction, improve constructability and efficiency to expedite construction, reduce environmental impacts, and enhance safety without compromising ecological and project requirements and commitments. Wekiva Parkway Section 6 received the 2023 ACEC-Florida Engineering Excellence Grand Award and the prestigious 2023 ACEC Engineering Excellence National Recognition Award.
02/21-03/23	SR 60 at 80 Foot Road, Polk County, FL, FDOT District 1 Nathan was the lead structures design engineer. As part of the D1 design-build pushbutton contract, this task designed safety improvements to mitigate crashes at the intersection of SR 60 and 80 Foot Road in Polk County. Elements of work included new mast arm signalization, signal timing design, intersection lighting, and signing and marking. Additional services required for this task included topographic survey, subsurface utility engineering (SUE), utility coordination, and geotechnical investigation. All improvements were designed and constructed in 365 days.
05/19-08/21	Sawgrass Expressway Corridor Review, Broward County, FL, Florida's Turnpike Enterprise. FPID: 435763-1: WGI was tasked with evaluating and independently reviewing the active design projects to widen the Sawgrass Expressway (SR 869) from south of Sunrise Boulevard to south of US-441/SR-7 in Broward County, Florida. The evaluation aimed to identify cost-saving strategies, ensure corridor design consistency, assess constructability and construction sequencing, and mitigate project risk elements. The independent peer review focused on two separate segments associated with FPIDs 437155-1/-5/-6 and 435461-1/-4/-5. Additionally, WGI reviewed prior value engineering studies, cost risk assessments, current design plans, and long-range estimates. WGI then held interim and final briefings with Florida's Turnpike Enterprise design and management staff, providing recommendations to the design consultant teams for consideration.
06/18-03/19	US 441 at NE 9th Street Signalization, Okeechobee County, FL, FDOT District 1 Nathan was the engineer and lead design calculation reviewer for all new mast arm designs. As part of the FDOT District 1 Design-Build pushbutton contract, this task work order provided safety improvements at the intersection of US 441 and NE 9th Street by installing new mast arm signals. Elements of work included railroad coordination to provide pre-emption, structural design, signing and marking, geotechnical investigation, SUE investigation, and utility coordination. Design innovations included dual-arm mast arms to avoid impacts to an existing underground gas main and overhead electric distribution lines.

Firm employed by: SDR Engineering Inc



Name	Bradley Gersh, PE		Years of relevant experience with this employer	1	
Title	Project Manager II		Years of relevant experience with other employer(s)	14	
Degree(s) / Years / Specialization			MS / 2019 / Civil Engineering BS / 2013 / Civil Engineering		
Active registration number/state/expiration date			PE. 84312 / Florida / 02-28-2027 PE. 135796 / Texas / 09-30-2026 PE. 51525 / Louisiana / 09-30-2026		
Year registered	2026	Discipline	Civil Engineering-Structures		
Contract role(s) / brief description of responsibilities			Structural Bridge Engineer and Bridge Design		
Bradley is a professional engineer with 15 years of experience who continues to take on increasingly challenging engineering assignments. Bradley has served as project manager, lead engineer, and engineer of record for highway and bridge structures, including prestressed concrete girder bridges, overhead sign structures, culverts, and mast arms projects. His responsibilities include designing and preparing contract plans, specifications, and estimates, bridge assessments, and CADD design on transportation structure projects.					
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).				
03/24-02/26	I-75 Express Lanes Segments A and B, Broward County, FL, FDOT District 4 Bradley was responsible for plan development. He developed CADD design drawings for MSE walls, superstructure, substructure, and post-design services for ramp H-5. He was also the structural designer responsible for developing CADD design drawings, as well as superstructure design and plan development of ramp H-4/H-12. Ramp H-4/H-12 is a three-span, 595-foot-long bridge with a 30-foot roadway width. The superstructure design comprised two steel twin box girders, an 8.5-inch structural concrete deck, and a 115-foot-long straddle box girder bent. Bradley developed a successfully approved cost-saving initiative (CSI) for ramp H-4/H-12. Ramp H-5 is a single-span, skewed bridge, comprised of 78-inch FIBs supported on pile end bents. Segment A and B, the largest and most complex segment of the 75 express lane project covering 3.1 miles from NW 170th Street to south of Miramar Parkway, includes constructing express lanes in the existing I-75 median, 2.6 miles of reconstruction, widening, and other interchange ramp connections and improvements.				
04/23-10/25	I-75 Express Lanes Segment D, C-11 Canal Bridge, Broward County, FL, FDOT District 4 Bradley was responsible for quality control and post-design services for the Design-Build of Segment D, a 3.7-mile-long portion of the I-75 Express Lanes project. The Design-Build delivery project includes constructing express lanes in the existing median; constructing entrance and exit ramps for the express lanes at various locations; constructing Sheridan Street Interchange improvements; installing sound barrier walls; drainage, signage, lighting, and landscaping; upgrading traffic monitoring cameras, dynamic message signs, and installing toll gantries. Segment D is located south of Sheridan Street to north of Griffin Road in Broward County.				
05/23-09/25	SR-5/Overseas Highway over Channel 2, Monroe County, FL, FDOT District 6				

	Bradley was responsible for inspection reports, spall repair design of substructure, superstructure, and quantities. The scope included a site visit to confirm deficiencies reported in the 2014 FDOT Biennial Inspection Report, as well as document any new conditions that also required repairs as part of the repair contract plans. Developed contract plans to repair spalls to concrete deck, traffic railing, pier caps, and columns, and prestressed concrete beams. Work also included the application of cathodic protection to pier caps, utility coordination, temporary traffic control (TTC) plans, signing, and pavement marking plans.
07/22-08/22	I-75/US 441 Emergency Design-Build, Alachua County, FL, Superior Construction Company. Bridge No. 290082 (I-75 Southbound over US 441) was struck by a truck, which damaged the two outermost beams (3-10 and 3-11) and required an emergency replacement. The contract time was set for 45 days and included design, procurement of materials, construction, and shop drawing reviews. The design schedule was achieved within 12 days from notice to proceed, leaving 30 days for construction. WGI's structural work consisted of beam deck and diaphragm designs, spall repairs, joint sealing, deck grooving, and final bridge load rating. WGI provided maintenance of traffic control plans within three days of notice to proceed and final roadway plans, signing, and pavement marking within 12 days.
06/21-03/23	NW South River Drive Bridge over Tamiami River Canal, Miami-Dade County, FL Bradley was responsible for plan development and preliminary design for a 123-foot simple-trunnion single-leaf through-girder bascule span bridge, including signalization arm pedestal. The project involved the preliminary design of movable bridge alternatives during the project development and environmental (PD&E), final design, and currently construction support services of a 123-foot simple trunnion single-leaf through-girder bascule span bridge to replace the historical Tamiami Canal Swing Bridge constructed in 1921. The project included providing a four-lane-wide bridge with 6 and 12-foot shared sidewalks and a control house within a 50-foot limited right-of-way and a low bridge profile, which resulted in the need to use through-basculer girders. The floor system consisted of floor beams and an exodermic bridge deck with no steel stringers and lateral bracing. Architectural features to the bridge and control house were also included in the detailed design.
09/18-03/21	US-1/SR-5 Jupiter Federal Bridge Replacement, Palm Beach County, FL, FDOT District 4. Bradley was responsible for the substructure design of the intermediate piers with the use of LEAP RC Pier and substructure pile reactions, including bascule pier and rest pier for this bascule bridge replacement project. Served as engineer of record for the project, which addresses the structural and functional deficiencies of the existing US-1/SR-5 Jupiter Federal Bridge from CR-A1A (Ocean Boulevard) to Beach Road. The scope includes the development of vertical and horizontal alignment for bridge replacement alternatives and the study of the resulting impacts. The design incorporates intersection improvements and improves traffic functions at both ends of the approximately 2,960-foot-long (0.56-mile-long) project corridor into the bridge replacement design. The project will include ADA access ramps to the eight-foot sidewalks and a new seven-foot buffered bike lane for safety.
05/16-04/18	SR 5/Overseas Highway over Tea Table, On-Call Services, FL, FDOT District 6 Bradley was responsible for inspection reports, spall repair design of substructure, superstructure, and quantities. The project included a site visit to confirm deficiencies reported in the 2014 FDOT Biennial Inspection Report, as well as document any new conditions that require repairs as part of the repair contract plans. Bradley developed contract plans to repair spalls to concrete deck, traffic railing, pier caps, columns, and prestressed concrete beams. Plans also included utility coordination, TTC plans, signing, and pavement marking plans.

Firm employed by: SDR Engineering Inc				
Name	Dasharath K C, MSC, PE		Years of relevant experience with this employer	3
Title	Engineer Intern II		Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization		MS / 2022-2023 / Civil Engineering (Structural) BE / 2016-2021 / Civil Engineering		
Active registration number/state/expiration date		EI.0035873/ Louisiana / 03-31-2027 PE. 104411/ Florida / 02-28-2027 Louisiana PE Pending		
Year registered	2026	Discipline	Civil Engineering-Structures	
Contract role(s) / brief description of responsibilities		Bridge Engineer Bridge Design, Rating, Inspection, Planning, and Testing		
Dasharath K C has a strong focus on bridge design, rehabilitation, load rating, inspection, and load testing. He has contributed his support to design and rehabilitation efforts, including planning for the rehabilitation and replacement of bridges and working on bridge design projects. Dasharath has also gained experience in load rating, having worked on the load rating of steel and concrete bridges, and has supported inspections for major bridges. Additionally, he has been involved in load testing, quality control, and reporting for various bridge projects. Dasharath holds a master's degree in Structural Engineering from the University of Toledo, with a project focused on FRP-strengthened steel beams through finite element analysis.				
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).			
04/24 – 06/24	H.012541: LA 594 Bridge over I-20, Monroe, LA The scope of work is to provide feasibility study services (Stage 0) for the rehabilitation/replacement of the bridge at LA 594 over I-20 in Monroe, LA. It includes reviewing existing documents, conducting a site visit, and evaluating bridge conditions, traffic, and environmental impacts. The scope will include determining rehabilitation or replacement options, such as deck replacement or steel repairs, and providing a construction cost estimate. <u>Dasharath's responsibilities were as follows:</u> • Construction Sequence for Replacing Deck • Drawing Title Sheet, Typical Cross Section, General Plan			
07/24–12/24	Wilson Island Bridge, Lake County, FL The scope of work is to provide design services for the Wilson Island Bridge. The design work will be limited to the structural design of both the superstructure and substructure and will not include survey, geotechnical design, or roadway design. <u>Dasharath's responsibilities were as follows:</u> • Reinforcement Quantity Calculation • End Bents Detailing • Assisting in the Computation Book			
07/24-08/24	H.010015 LA 143 Bayou D'Arbonne Bridge The scope of work is to provide stage 3 design-related services for the preparation of final plans. It includes the preparation of the final bridge design document, plan details, Load and Resistance Factor Rating method (LRFR) as-designed bridge ratings, special			



	provisions, construction cost estimate, and any technical specifications that may be required. <u>Dasharath's responsibilities were as follows:</u> • Span/Deck Detailing, Intermediate and End Bent Detailing • Bent Elevation Calculation
05/24 – 05/26	Evaluation and Load Testing, Statewide, LA The work consisted of plan review, planning, instrumentation, and conducting diagnostic and proof load testing. For each bridge, a comprehensive report was prepared, including NDT and load test results, load ratings, and rehabilitation recommendations. <u>Dasharath's responsibilities were as follows:</u> Load rating of Concrete Bridges with Steel; Concrete and Timber Piles; Review the load ratings performed by EIT I Engineers; Consistency Check of Models and Submitted Report. • H.009859.5TO No 7: Load Rating of 89 Bridges, Statewide, LA • H.012485.5 TO No 2: Load Rating of 117 Off System Bridges, Statewide, LA • H.009859.5 TO No 8: Load Rating of 32 Bridges, Statewide, LA • H.009859.5 TO No. 1: Load Rating of 300 Bridges, Statewide, LA
04/24–08/25	Inspection of I-20 bridge over the Mississippi River, Vicksburg, MS US190 Truss Inspection over the Mississippi River, Baton Rouge, LA Contract 5 for Movable Bridges HDR, LA These projects involve inspection and evaluation of the bridges. <u>Dasharath's responsibilities were as follows:</u> • Inspection of the Concrete, Steel, and Truss Bridges • Load rating of Steel and Concrete Bridges
08/23-12/23	DGL Consulting Engineers, Toledo, Ohio • Performed bridge load rating and assisted in creating bridge inspection reports for Prestressed Concrete Bridges, Slab Bridges, Steel Girder Bridges, and Truss Bridges. • Performed structural analysis and design of walls and buildings, and detailing.
09/21-07/22	Engineering Helpline Pvt. Ltd, Kathmandu, Nepal • Performed building design, retaining wall design, road layout design, site survey, estimation, and valuation. • Site/Field Engineer for Aautar-Kagune three km road project: bridge construction, retaining wall, drainage construction, pile culverts, and causeway construction

Firm employed by: SDR Engineering Inc					
Name	Mohammad (Moe) Sabouri, MASc., EI		Years of relevant experience with this employer	3	
Title	Engineer Intern II		Years of relevant experience with other employer(s)	1	
Degree(s) / Years / Specialization		MASc / 2021 / Civil Engineering (Structural) BS / 2016 / Civil Engineering			
Active registration number/state/expiration date		EI. 1100027412 / Florida / 02-28-2028 EI. 80519 / Texas / 03-26-2032			
Year registered	2024	Discipline	Civil Engineering-Structures		
Contract role(s) / brief description of responsibilities		Bridge Engineer (EIT II) Bridge load rating, analysis, testing, and inspection			
Mohammad (Moe) Sabouri is an Engineer Intern with over three years of experience in bridge engineering. His current work consists of bridge design/rehabilitation, analysis, load rating evaluation, bridge inspection, load testing, and preparation of quantity/cost estimates. He is also involved in conducting NDT and evaluating load testing data. He is experienced in load rating and analysis of concrete bridges, steel bridges, timber bridges, concrete culverts, and metal culverts. He has also assisted in developing and reviewing reports.					
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).				
08/25–Present	H.009859.5: Load Rating of 300 Bridges, Statewide, LA The scope of this project was to evaluate and load rate 300 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, mainly involving cast-in-place and precast concrete culverts and metal culverts. <u>Moe was responsible for assisting with:</u> • Training the team on load rating concrete culverts. • Reviewing as-built drawings and standard plans of concrete culvert structures. • Reviewing load rating models and analyses of concrete culverts in AASHTOWare Bridge Rating BrR. • Reviewing concrete culverts' hand calculations in Excel and Mathcad. • Reviewing in-depth reports to present load rating overview and results.				
03/25–Present	H.012485.5 TO #2: Load Rating of 117 Off System Bridges, Statewide, LA The scope of this project was to evaluate and load rate 117 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, including concrete slab spans, steel spans, prestressed concrete girder spans, complex spans, concrete and metal culverts, and pile bents. <u>Moe's responsibilities were assisting with:</u> • Reviewing as-built drawings and standard plans of the bridge structure. • Performing load rating of bridges using AASHTOWare Bridge Rating BrR, LEAP Bridge Concrete, and Mathcad. • Preparing in-depth reports to present load rating overview and results.				

09/24–Present	H.009859.5: Load Rating of 89 Bridges, Statewide, LA The scope of this project was to evaluate and load rate 89 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, including concrete slab spans, steel spans, prestressed concrete girder spans, complex spans, concrete and metal culverts, and pile bents. <u>Moe's responsibilities were assisting with:</u> • Reviewing as-built drawings and standard plans of the bridge structure. • Performing load rating of bridges using AASHTOware Bridge Rating BrR, LEAP Bridge Concrete, and Mathcad. • Preparing in-depth reports to present load rating overview and results.
07/24–09/24	H.009730.5 TO#3: US-80 Texas Street over Red River Bridge, Shreveport, LA This bridge consists of a 884-foot main truss span, six 103-foot approach deck truss spans, an 81-foot steel girder span, and (35) 24 -51-foot reinforced concrete deck girder spans. The scope of this project was to perform a routine, in-depth, and fracture-critical inspection of the bridge and create an inspection report in inspectX. The inspection was in conformance with the AASHTO Manual for Bridge Evaluation, the NBIS, and the LADOTD Bridge Inspection Manual. <u>Moe was responsible for assisting with:</u> • Compiling and reviewing the field inspection notes. • Calculating the quantities. • Organizing the inspection photos and photo log. • Reviewing and uploading the inspection notes and quantities to inspectX.
05/24–07/24	H.009730.5 TO#3: I-20 over Mississippi River Bridge, Vicksburg, MS This bridge consists of a 1,716-foot main truss span, three 426-foot approach truss spans, three 127-foot steel girder spans, three 170-foot two-girder spans, a 360-foot composite steel girder span, and (101) 60 and 80-foot prestressed concrete girder spans. The scope was to perform a routine, in-depth, and fracture-critical inspection of the bridge and create an inspection report in inspectX. The inspection was in conformance with the AASHTO Manual for Bridge Evaluation, the NBIS, and the LADOTD Bridge Inspection Manual. <u>Moe was responsible for assisting with:</u> • Compiling and reviewing the field inspection notes. • Calculating the quantities. • Organizing the inspection photos and photo log. • Reviewing and uploading the inspection notes and quantities to inspectX.
12/23–04/24	H.009859.5: Load Rating of 45 Bridges, Statewide, LA The scope of this project was to evaluate and load rate 45 bridge structures located in the state of Louisiana. The load rating was performed on a variety of bridge structures, including concrete slab spans, steel spans, prestressed concrete girder spans, complex spans, and pile bents. Moe's responsibilities were assisting with: • Reviewing as-built drawings and standard plans of the bridge structure. • Performing load rating of bridges using AASHTOware Bridge Rating BrR, LEAP Bridge Concrete, and Mathcad. • Preparing in-depth reports to present load rating overview and results.

Firm employed by: SDR Engineering Inc



Name	Parnian Abdi, MS, EI		Years of relevant experience with this employer	4
Title	Engineer Intern II		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			MS / 2021 / Civil Engineering BS / 2019 / Civil Engineering	
Active registration number/state/expiration date			EI.0035314 / Louisiana / 03-31-2027	
Year registered	2022	Discipline	Civil Engineering, Land Surveying	
Contract role(s) / brief description of responsibilities			Bridge Engineer (EIT II) Bridge load rating	





Parnian is an engineer with over 4 years of experience specializing in bridge design and rehabilitation. She has worked on the preparation of engineering plans, cost and quantity estimates, and the development of design solutions for various bridge structures. In addition, she has extensive experience in bridge load ratings, inspection, and load testing, with contributions to numerous projects involving structural evaluation, reporting, and condition assessment.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract, <i>i.e.</i> , “Bridge Inspection”, “condition assessment”, “steel and concrete rehabilitation”, “NDT”, “project management”.
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12/21-Present	Structure Evaluation and Load Rating, Statewide, LA The work consisted of plan review, evaluation, and load rating of numerous bridge structures in the state of Louisiana. The load rating was performed on a variety of bridge structures, including concrete slab, steel girder, and prestressed concrete girder spans. <u>Parnian’s responsibilities were</u> Review of plans, preparing load rating and final reports, preparing rehabilitation plans, and conducting QA/QC. • H.009859.5 TO No. 1: Load Rating of 300 Bridges, Statewide, LA • H.009859.5: Load Rating of 32 Bridges, LA • H.012485.5: Off-System Load Rating of 117 Bridges, LA • H. 009859.5: Load Rating of 86 Bridges, Statewide, LA • H.009859.5: Load Rating of 45 Bridges, Statewide, LA • H.009859.5: Load Rating of 114 Bridges, Statewide, LA • H.009859: Load Rating of 36 Bridges, Statewide, LA
07/24-08/24	H.010015.5: LA 143 Bayou D’Arbonne Bridge, LA The scope of the project was to provide Stage 3 design services for the rehabilitation of the LA 143 Bridge over Bayou D’Arbonne. The work included preparation of the final bridge design document, LRFR as-designed ratings, special provisions, construction cost estimates, and technical specifications in accordance with LADOTD standards. <u>Parnian’s responsibilities were:</u> • Review of as-built drawings or standard plans of the bridge structure. • Performing load rating of bridges using AASHTOware BrR, LEAP, and Mathcad. • Preparing in-depth reports to present load rating overview, results, and schematics.
03/25-07/25	Wilson Island Bridge over Palatlahaha River, Lake County, FL

	The scope of work is to design a new bridge over the Palatlakaha River in Lake County, FL. The project consists of providing all necessary engineering design services (Stage 3) required to construct the new bridge structure. The new bridge consists of prestressed concrete FIB-36 girders with a total bridge length of 100 feet. <u>Parnian's responsibilities were as follows:</u> • Design the superstructure (Bearings) • Construction cost estimate
03/24-04/24	Task Order NO. 44-17310- TO # 8 NDT, LA 0039 over Industrial Canal The scope of the project was to perform a load test and rating calibration of Bridge RC#020376, located in Orleans Parish, Louisiana. The bridge, built in 1957, carries Louisiana State Highway 39 over the Industrial Canal and consists of fourteen (14) concrete approach spans with a total length of 280 feet. <u>Parnian's responsibilities were:</u> • Developing finite element models of the tested elements. • Performing conventional load rating analysis (Task #4119). • Calibrating load ratings against load test results. • Preparing the final load test report.
02/24-05/24	H.009730.5 TO#2: LA 27 Bridge over ICWW, Gibbstown, LA The bridge consists of a 750-foot 3-span continuous two-girder system span, (40) 70 and 95-foot prestressed concrete girder spans, and seven 20-foot concrete slab spans. The scope was to perform a routine, in-depth, and fracture-critical inspection of the bridge, create an inspection report and SNBI report in InspectX, perform load rating analysis, and develop repair plans for deficient members. The inspection was in conformance with the AASHTO Manual for Bridge Evaluation, the NBIS, and the LADOTD Bridge Inspection Manual. <u>Parnian's responsibilities were:</u> • Organizing the field inspection notes and photos for InspectX upload
05/23-08/23	H.015409: Rehabilitation of I-10 Bridge Over Mississippi River, LA The scope of the project was to review the as-built plans and inspection reports provided by LADOTD, conduct a site visit to verify and quantify the deteriorations, perform 3D Finite Element Analysis for spans with web cracking to determine the local stress concentration, and provide repair recommendations. <u>Parnian's responsibilities were:</u> • The load rating of deteriorated steel spans using AASHTOware BrR. • Preparing the rehabilitation plans, including the plan and profiles using MicroStation.
08/22–01/23	SR 5 (US 1) Bridge over Channel No. 5 Jacking, Monroe County, FL The segmental bridge constructed using the span-by-span method is to be repaired, including bearing replacement, which requires jacking of the bridge under full live load. <u>Parnian's responsibilities were:</u> • Assisting with the analysis of the bridge under full operational loads using Midas Civil. • Preparing the report to present the overview, results, and schematics.

Firm employed by: SDR Engineering Inc				
Name	John Campbell, BS, EI		Years of relevant experience with this employer	1
Title	Engineer Intern I		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			BS / 2025 / Civil Engineering	
Active registration number/state/expiration date			EI.0036055 / Louisiana / 09-30-2027	
Year registered	2025	Discipline	Civil Engineering-Structures	
Contract role(s) / brief description of responsibilities			Bridge Engineer (EI I) Bridge design, rating, inspection, planning, and testing	
				
John Campbell is a Bridge Engineer (EI I) at SDR Engineering Inc., with a focus on load rating evaluation for bridges. He currently serves as an Engineer Intern for three projects and is involved in the load rating of bridges and culverts.				
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).			
08/25–Present	H.09859.5: Load Rating of 300 Bridges, Statewide, LA The scope of work is to perform load rating of 300 existing bridge structures by the LRFR, relative to the following project: H.009859.5. SDR is the prime consultant, and John serves as the rating engineer in load rating bridges and culverts.			
07/25–Present	H.009859.5: Load Rating of 32 Bridges, Statewide, LA The scope of work is to perform load rating of 32 existing bridge structures by the LRFR, relative to the following project: H.009859.5. SDR is the prime consultant, and John serves as the rating engineer in load rating the following bridges: • US0167 over Big Corney Bayou, Union, Monroe • LA1010 over Labadieville Drain, Assumption, Baton Rouge			
03/25 – Present	H.012485.5: Load Rating of 117 Off System Bridges, Statewide, LA The scope of work is to perform load rating of 121 existing bridge structures by the LRFR. SDR is the prime consultant, and John serves as the rating engineer for the load ratings of the following bridges: • Ridge Road over Coulee Ile Des Cannes, Lafayette, Lafayette • W. Esplanade Avenue S. over Canal #17, Jefferson, Bridge City			
01/25 – 05/25	H.00973.5: 44-30995 TO5 US190 Truss Inspection The scope of work is to perform the inspection of the Truss Bridge that carries US190 over the Mississippi River. The bridge consists of five main trusses with span lengths of 490 feet, 848 feet, 650 feet, 848 feet, and 490 feet. The scope included the inspection of the entire bridge. SDR is the prime consultant, and John served as an assistant in the following tasks: • Compiling and annotating structural deficiencies. • Identifying structural elements in the inspection photos.			

Firm employed by: SDR Engineering Inc						
Name	Zina Ebrahim, MS, EI		Years of relevant experience with this employer	1		
Title	Engineer Intern II		Years of relevant experience with other employer(s)	3		
Degree(s) / Years / Specialization			ME / 2019 / Civil Engineering (Structural) BS / 2016 / Civil Engineering			
Active registration number/state/expiration date			EI.0036302 / Louisiana / 09-30-2026			
Year registered	2026	Discipline	Civil Engineering-Structures			
Contract role(s) / brief description of responsibilities			Bridge Engineer (EI II) Bridge design, rating, planning, and testing			
Zina is a structural engineer with three years of experience. Her involvement in projects has included load rating evaluation, rehabilitation projects, and engineering reports preparation. Her work focuses on assessing existing bridge conditions, analyzing structural performance, and developing effective rehabilitation solutions. Zina brings a strong analytical background, supporting projects from evaluation through documentation.						
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).					
01/26-Present	H.009859.5 Load Rating of 300 On-System Bridges, LA The scope of work is to perform load rating of 300 existing bridge structures by the LRFR method. The project consists of conducting a plan and document review, performing structural analysis and load rating, preparing rating/ analysis reports, providing repair/ strengthening methods and sketches as needed, and conducting training on culvert load rating. <u>Zina's responsibilities were as follows:</u> • Review the load rating procedure of concrete pipe culverts. • Prepare instrumentation plans for load tests. • Prepare repair details for previously posted bridges. • Perform load rating and prepare rating reports.					
04/26-Present	H.014281: US 190 Bridge over the Mississippi River, LA The scope of work is to repair and rehabilitate the US 190 Bridge over the Mississippi River (Recall #051880) to address structural deficiencies identified in the most recent inspection report. <u>Zina's responsibilities were as follows:</u> • Prepare framing plan including repair locations. • Prepare repair details and procedures.					



Firm employed by: SDR Engineering Inc				
Name	Ammar Al Maabreh, PhD., EI		Years of relevant experience with this employer	1
Title	Engineer Intern II		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		PhD / 2025/ Construction Engineering and Management ME / 2018 / Civil Engineering (Structural) BS / 2015 / Civil Engineering		
Active registration number/state/expiration date		EI.0036090 / Louisiana / 09-30-2027		
Year registered	2025	Discipline	Civil Engineering-Structures	
Contract role(s) / brief description of responsibilities		Bridge Engineer (EI II) Bridge design, rating, inspection, planning, and testing		
Ammar is a structural engineer with one year of experience in bridge engineering and structural evaluation. His project involvement has included bridge load testing, load rating evaluations, bridge repair projects, and rehabilitation projects. His work focuses on assessing existing bridge conditions, analyzing structural performance, and supporting the development of practical rehabilitation and maintenance solutions. Ammar has experience preparing technical documentation and inspection-related reports, and he brings a strong analytical background to projects from evaluation through final documentation.				
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).			
05/25- Present	Evaluation and Load Rating, Statewide, LA The scope of work is to perform load rating of existing bridge structures by the LRFR method. The project consists of conducting a plan and document review, performing structural analysis and load rating, preparing rating/analysis reports, provide repair/ strengthening methods and sketches as needed. <u>Ammar’s responsibilities were as follows:</u> performing load rating and preparing final reports. • 44-21595 TO #8 H.009859.5 LR of 32 Bridges, Statewide, LA • 4400031060- TO #2 H.01248.5 Off-system 117 BR, Statewide, LA			
04/26-Present	H.014281: US 190 Bridge over the Mississippi River, LA The scope of work is to repair and rehabilitate the US 190 Bridge over the Mississippi River (Recall #051880) to address structural deficiencies identified in the most recent inspection report. <u>Ammar’s responsibilities were as follows:</u> • Prepare framing plan including repair locations. • Prepare repair details and procedures.			
08/25- Present	H.009859.5 Load Rating of 300 On-System Bridges, LA • The scope of work is to perform load rating of 300 existing bridge structures by the LRFR method. The project consists of conducting a plan and document review, performing structural analysis and load rating, preparing rating/analysis reports, providing repair/ strengthening methods and sketches as needed, and conducting training on culvert load rating. The project also included instrumentation, load testing, analysis, and reporting for floor beams, stringers, and concrete slabs. <u>Ammar’s responsibilities were as follows:</u> Instrumentation and field load testing			



	• Developing load rating models and reports • Finite element analysis • Load test analysis and reports • Supporting rehabilitation recommendations and project documentation.
05/25- 11/25	4400021517 Moveable Bridges HDR, LA The work included bridge inspection, quantity calculations, load rating evaluation, and report preparation. <u>Ammar's responsibilities were as follows:</u> • Preparing inspection and load rating reports • Evaluating structural conditions • Supporting project documentation and rehabilitation recommendations.

Firm employed by: SDR Engineering Inc



Name	Prativa Pathak, MSCE, EI		Years of relevant experience with this employer	1	
Title	Engineer Intern I		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			MSCE / 2025 / Civil Engineering (Structures) BE / 2022 / Civil Engineering		
Active registration number/state/expiration date			EI.0036202 / Louisiana / 03-31-2028		
Year registered	2025	Discipline	Civil Engineering - Structures		
Contract role(s) / brief description of responsibilities			Bridge Engineer (EIT I) Bridge design, rating, and testing		
Prativa has professional experience since 2025. She has worked on DOTD projects with the oversight of several professional engineers. Her involvement in projects has included load testing, load rating evaluation, rehabilitation projects, and quantity/cost estimate preparation.					
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).				
10/25-Present	Evaluation and Load Rating, Statewide, LA The scope of work is to perform load rating of existing bridge structures by the LRFR method. The project consists of conducting a plan and document review, performing structural analysis and load rating, preparing rating/ analysis reports, provide repair/ strengthening methods and sketches as needed. <u>As an engineer intern, Prativa’s responsibilities were as follows:</u> performing load rating and preparing final reports. • H.009859.5 TO No.8: Load Rating of 32 Bridges, Statewide, LA • H.012485.5 TO No.2: Load Rating and Evaluation of 117 Bridges, Statewide, LA				
08/25- Present	H.009859.5 Load Rating of 300 On-System Bridges, LA The scope of work is to perform load rating of 300 existing bridge structures by the Load and Resistance Factor Rating (LRFR) method. The project consists of conducting a plan and document review, performing structural analysis and load rating, preparing rating/ analysis reports, providing repair/ strengthening methods and sketches as needed, and conducting training on culvert load rating. The project also included instrumentation, load testing, analysis, and reporting for floor beams, stringers, and concrete slabs. <u>As an engineer intern, Prativa’s responsibilities</u> • Developing load rating models and reports • Finite element analysis • Load test analysis and reports				
04/26-Present	H.014281 US 190 over Mississippi River Rehabilitation, East Baton Rouge Parish, LA The scope of work is to repair and rehabilitate the US 190 Bridge over the Mississippi River (Recall #051880) to address structural deficiencies identified in the most recent inspection report. <u>As an engineer intern, Prativa’s responsibilities were as follows:</u> • Preparing rehabilitation design plans.				



Firm employed by: SDR Engineering Inc				
Name	Sandeep Bajagain, MSCE, EI		Years of relevant experience with this employer	1
Title	Engineer Intern I		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		MSCE / 2025 / Civil Engineering (Structural) BE / 2022 / Civil Engineering		
Active registration number/state/expiration date		EI.0036141 / Louisiana / 03-31-2028		
Year registered	2025	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Bridge Engineer (EIT I) Bridge design, rating, inspection, and testing		
Sandeep is a structural engineer with nearly one year of experience. His involvement in projects has included bridge instrumentation and load testing, rehabilitation projects, and load rating evaluation projects.				
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).			
06/25-Present	Evaluation and Load Rating, Statewide, LA The scope of work is to perform load rating of existing bridge structures by the LRFR method. The project consists of conducting a plan and document review, performing structural analysis and load rating, preparing rating/ analysis reports, provide repair/ strengthening methods and sketches as needed. <u>As an engineer intern, Sandeep’s responsibilities were as follows:</u> performing load rating and preparing final reports. • H.009859.5: Load Rating of 32 Bridges, Statewide, LA • H.012485.5: Load Rating and Evaluation of 117 Bridges, Statewide, LA			
08/25- Present	H.009859.5 Load Rating of 300 On-System Bridges, LA The scope of work is to perform load rating of 300 existing bridge structures by the LRFR method. The project consists of conducting a plan and document review, performing structural analysis and load rating, preparing rating/ analysis reports, providing repair/ strengthening methods and sketches as needed, and conducting training on culvert load rating. The project also included instrumentation, load testing, analysis, and reporting for floor beams, stringers, and concrete slabs. <u>As an engineer intern, Sandeep’s responsibilities include:</u> • Instrumentation and field load testing • Developing load rating models and reports			
04/26-Present	H.014281 US 190 over Mississippi River Rehabilitation, East Baton Rouge Parish, LA The scope of work includes repairing and rehabilitating the US 190 Bridge over the Mississippi River to address structural deficiencies identified in the most recent inspection report. <u>As an engineer intern, Sandeep’s responsibilities are:</u> • Preparing rehabilitation design plans for different deficient steel members.			



Firm employed by: SDR Engineering Inc					
Name	Suraj Dhungel, MSCE, EI		Years of relevant experience with this employer	1	
Title	Engineer Intern I		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization		MSCE / 2025 / Civil Engineering (Structures) BE / 2022 / Civil Engineering			
Active registration number/state/expiration date		EI.0036195 / Louisiana / 03-31-2028			
Year registered	2025	Discipline	Civil Engineering - Structures		
Contract role(s) / brief description of responsibilities		Bridge Engineer (EIT I) Bridge design, rating, inspection, and testing			
Suraj is a structural engineer with nearly one year of experience. His involvement in projects has included bridge instrumentation and load testing, rehabilitation projects, and load rating evaluation projects.					
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).				
09/25-Present	Evaluation and Load Rating, Statewide, LA The scope of work is to perform load rating of existing bridge structures by the LRFR method. The project consists of conducting a plan and document review, performing structural analysis and load rating, preparing rating/ analysis reports, provide repair/ strengthening methods and sketches as needed. <u>As an engineer intern, Suraj’s responsibilities were as follows:</u> performing load rating and preparing final reports. • H.009859.5: Load Rating of 32 Bridges, Statewide, LA • H.012485.5: Load Rating and Evaluation of 117 Bridges, Statewide, LA				
08/25- Present	H.009859.5 Load Rating of 300 On-System Bridges, LA The scope of work is to perform load rating of 300 existing bridge structures by the LRFR method. The project consists of conducting a plan and document review, performing structural analysis and load rating, preparing rating/ analysis reports, providing repair/ strengthening methods and sketches as needed, and conducting training on culvert load rating. The project also included instrumentation, load testing, analysis, and reporting for floor beams, stringers, and concrete slabs. <u>As an engineer intern, Suraj’s responsibilities:</u> • Instrumentation and field load testing • Developing load rating models and reports				
04/26-Present	H.014281 US 190 over Mississippi River Rehabilitation, East Baton Rouge Parish, LA The scope of work includes repairing and rehabilitating the bridge to address structural deficiencies. <u>As an engineer intern, Suraj’s responsibilities were as follows:</u> • Preparing rehabilitation design plans.				

Firm employed by: T. Baker Smith, LLC					
Name	TJ Stokes, PE		Years of relevant experience with this employer	5	
Title	Transportation Practice Leader		Years of relevant experience with other employer(s)	12	
Degree(s) / Years / Specialization		BS / 2009 / Industrial Engineering			
Active registration number/state/expiration date		PE.40079 / Louisiana / 03-31-2028			
Year registered	2015	Discipline	Industrial Engineering		
Contract role(s) / brief description of responsibilities		Supervisor - Eng. TJ will lead and oversee Subsurface Utility Engineering. Satisfies MPR #8.			
TJ offers more than 17 years of experience in the management and delivery of Subsurface Utility Engineering (SUE) services, with a specialized emphasis on transportation and roadway infrastructure projects. During his tenure with LADOTD, he played an instrumental role in supporting the Location and Survey group in the development and implementation of the department's current SUE standards and practices. Serving as Lead Professional for SUE, TJ functioned as Project Manager and Engineer of Record on numerous LADOTD assignments, including several of the largest SUE contracts undertaken by the department. He currently supervises multiple DOTD and MDOT retainer contracts, in addition to overseeing a large number of public and private sector projects. TJ maintains comprehensive expertise in ASCE/UESI/CIE 38-22 standards and demonstrates proficiency across a full spectrum of SUE technologies, including ground penetrating radar (GPR), hydro and air vacuum excavation, and other advanced geophysical locating methods. In his role as Transportation Practice Leader, he provides strategic leadership and coordination between SUE and Survey teams, while ensuring rigorous QA/QC oversight for all SUE deliverables.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
05/23 – Present	S.P. No. 4400025511, IDIQ SUE Services Statewide; LADOTD; Statewide, LA Acts as Transportation Practice Leader for multiple task orders involving Subsurface Utility Engineering (SUE) services, providing technical leadership and program oversight throughout project delivery. Oversees the execution of Quality Level B and Quality Level A investigations in accordance with project requirements and applicable industry standards. Directs QA/QC reviews of topographic survey data submitted to LADOTD to verify compliance with ASCE 38-22 guidelines and facilitate accurate utility mapping, coordination, and conflict resolution for transportation infrastructure projects				
03/21 – 10/23	S.P. No. 44-14661, IDIQ SUE Services Statewide; LADOTD; Statewide, LA Served as Project Manager and Engineer of Record, supporting 15 separate task orders involving Subsurface Utility Engineering (SUE) and Utility Coordination. Responsibilities included overseeing and delivering Quality Level B and Quality Level A SUE services in accordance with project-specific scopes. Conducted comprehensive QA/QC reviews of topographic survey data submitted to LADOTD to verify adherence to ASCE 38-02 guidelines. Additionally, evaluated and guided all utility coordination processes, including the development of conflict matrices and conflict resolution plans.				
05/21 - 03/24	S.P. No. H.003931.5, Calcasieu River Bridge (HBI); LADOTD; Calcasieu Parish, LA <i>Project Manager/Engineer of Record.</i> Responsible for all Subsurface Utility Engineering and Utility Coordination. Oversaw all Quality Level B and Quality Level A SUE services and performed QA/QC on the topographic survey submitted to LADOTD to ensure compliance with ASCE 38-02. Reviewed all utility coordination procedures including conflict matrix and conflict plan creation.				

11/21 – 02/22	S.P. No. H.014670.5, LA 1270: LA 77 to End of Control Section; LADOTD; Iberville Parish, LA <i>Contract administrator/Engineer of Record.</i> Responsible for all Subsurface Utility Engineering Quality Level B services and performed QA/QC on the topographic survey performed by LADOTD to ensure compliance with ASCE 38-02. LADOTD Location and Survey field staff performed the topographic survey and we ensured a smooth working environment for data collection.
03/21 – 01/22	Move Ascension, LA 44 & Parker Roundabout, Subsurface Utility Engineering; Ascension Parish Government; Ascension Parish, LA <i>Lead Professional.</i> Provided Subsurface Utility Engineering for the LA 44 & Parker Roundabout as part of the Move Ascension Program. Quality Level B services were provided throughout the project limits to determine the horizontal location of utilities to assist with the roadway design. Quality Level A test holes were also provided to provide vertical information where utilities would conflict with roadway or drainage design.
02/22 – 05/22	Move Ascension Parker Road and LA 929 Widening; Ascension Parish Government; Ascension Parish, LA <i>Lead Professional.</i> Provided Subsurface Utility Engineering for the Parker Road and LA 929 Widening project as part of the Move Ascension Program. Quality Level B services were provided throughout the project limits to determine the horizontal location of utilities to assist with the roadway design. Quality Level A test holes were also provided to provide vertical information where utilities would conflict with roadway or drainage design.
03/24 – Present	No. 42200794, SUE and Survey IDIQ; St. Tammany Parish Government; St. Tammany Parish, LA Serves as Transportation Practice Leader, providing management oversight and technical leadership for multiple task orders involving Subsurface Utility Engineering (SUE) and Survey services. Oversees the execution of Quality Level B and Quality Level A investigations to support transportation and infrastructure projects in accordance with project-specific requirements. Directs QA/QC review efforts for topographic survey data submitted to the Parish, ensuring compliance with ASCE 38-22 standards and promoting accurate utility mapping and coordination throughout project development.
01/22 – 07/22	S.P. No. H.012541.5, LA 594: Overpass I-20; LADOTD; Ouachita Parish, LA Served as Project Manager for this interstate widening project in northern Louisiana, overseeing the execution of Subsurface Utility Engineering (SUE) Quality Level B services to support roadway design efforts. Responsibilities included conducting comprehensive QA/QC reviews of topographic survey data submitted to LADOTD to verify compliance with ASCE 38-02 guidelines and ensure accurate utility identification and depiction throughout the project corridor.
09/23 – 10/23	S.P. No. H.011684.5, LA 327 Spur: Starring Lane Extension; LADOTD; East Baton Rouge Parish, LA Served as Contract Administrator for this accelerated Subsurface Utility Engineering (SUE) project, providing Quality Level B services along a one-mile corridor to verify the location of multiple underground sewer force mains. Successfully managed project delivery under an expedited schedule, completing utility investigations and providing all required deliverables within 30 days of Notice to Proceed (NTP).

Firm employed by: T. Baker Smith, LLC					
Name	Austin LaCombe, PE		Years of relevant experience with this employer	2	
Title	Lead Professional, Subsurface Utility Engineering		Years of relevant experience with other employer(s)	10	
Degree(s) / Years / Specialization			BS / 2017 / Civil Engineering Associate of Science / 2015 / Pre-Engineering		
Active registration number/state/expiration date			PE. 47563/ Louisiana / 09-30-2027		
Year registered	2023	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Engineer. Austin will provide Subsurface Utility Engineering services.		
Austin serves as Lead Professional for TBS' Subsurface Utility Engineering (SUE) group and has more than 10 years of experience in the management and delivery of SUE projects. In this role, he manages the day to day operations of the SUE department including field crew coordination, utility research, field data processing, preparation and QA/QC of project deliverables, and client coordination. Austin also functions as Project Manager and Engineer of Record on numerous projects with diverse complexity and timelines. Austin maintains comprehensive expertise in ASCE/UESI/CIE 38-22 standards and demonstrates proficiency across a full spectrum of SUE technologies, including ground penetrating radar (GPR), hydro and air vacuum excavation, and other advanced geophysical locating methods. He is also proficient in a variety of software including InRoads, OpenRoads, MicroStation, TopoDOT, AutoCAD Civil 3D, and Leica Cyclone.					
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
03/26 - Present	S.P. No. 4400025511, IDIQ SUE Services Statewide; LADOTD; Statewide, LA Acts as Contract Manager and Engineer of Record for multiple task orders involving Subsurface Utility Engineering (SUE) services. He provides technical leadership and task order oversight. Oversees the execution of Quality Level B and Quality Level A investigations in accordance with project requirements and applicable industry standards. Ensures ASCE 38-22 guidelines are upheld and coordinates with project surveyors to verify that the utility survey file meets the standards set by DOTD's Location and Survey group.				
03/26 - Present	Project No. SP-9999-09(300)/108881-101000, IDIQ SUE Services Statewide; MDOT; Statewide, MS Serves as Project Manager for multiple task orders involving Subsurface Utility Engineering (SUE) services. Responsibilities include scope determination, client coordination, managing the delivery of Quality Level B and Quality Level A investigations in accordance with project-specific requirements, and deliverable preparation. Ensures compliance with ASCE 38-22 guidelines and supports accurate utility mapping.				
07/15 – 12/21	S.P. No. H.004273.5, I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange); LADOTD; Lafayette Parish, LA As a sub to Stantec, Austin served as the SUE Project Manager for the utility portion of this highly complex project. He provided ASCE 38-02 Quality Level A and B services to map underground utilities within 7 miles of downtown Lafayette, as well as Utility Coordination to keep Utility Owners aware of project progression. After compiling the Quality Level B data, Quality Level A "Test Holes" were utilized to establish elevations on critical utility systems determined to be in potential conflict with design.				

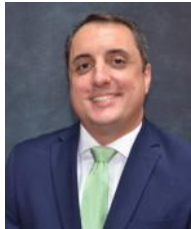
01/18 – 05/20	S.P. No. H.004100.5, I-10: LA 415 to Essen Lane on I-10 and I-12; LADOTD; East Baton Rouge and West Baton Rouge Parishes, LA Austin served as a project manager for one of the larger SUE projects ever contracted by DOTD. This project involved ASCE 38-02 Quality Level B SUE services throughout the 10-mile project corridor crossing the Mississippi River, in Baton Rouge, LA. Quality Level B efforts were completed in phases to meet key project milestones, resulting in the need for major coordination efforts among design team members to merge data efficiently and accurately. Once complete, a comprehensive map was created to depict the horizontal location of all utilities within the project limits.
01/20 – 11/20	S.P. No. H.002868.5, I-49 South: Ambassador Caffery & US 90 Interchange; LADOTD; Lafayette Parish, LA <i>Project Manager and Utility QA/QC Lead.</i> This project involved providing designating (Quality Level B) and locating (Quality Level A) SUE services to map the underground utilities along this congested route. The first task required designating subsurface utilities along several miles of the Ambassador Caffery and US 90 right-of-way. After the completion of the Quality Level B investigation, this information was reviewed to conduct locating services on critical utilities in an effort to mitigate potential utility conflicts.
10/21 – 2/22	S.P. No. H.009266.5, I-10: LA 73 to LA 30; LADOTD; Ascension Parish, LA <i>Project Manager.</i> For this project, DOTD planned to widen I-10 from 4 to 6 lanes from LA 73 to LA 30. The SUE services managed by Austin included Quality Level B at the LA 73 and I-10 interchange as well as Quality Level D services for the remainder of the project limits.
03/22 – 08/22	S.P. No. H.009300.5, Hooper Road Widening (LA 3034 to LA 37); LADOTD; East Baton Rouge Parish, LA <i>SUE Project Manager.</i> This project involved a complete topographic survey including all above ground utilities and utility features, locations of subsurface utilities with approximate depths, all drainage structures, natural ground shots, existing roadways, and finish floor elevations of all buildings that fell within the project limits. Additionally, the creation of a project drainage map was included with the final project deliverables. All information was collected and completed in accordance with the Location and Survey Manual and all currently accepted Location and Survey Automation procedures. The project also required ASCE 38-02 Quality Level B, C, and D services throughout portions of the project limits. Utilities included water, gas, telephone, cable, and fiber optics.
07/22 - 03/26	S.P. No. H.013797.5, LA 30: EBR PL to I-10; LADOTD; Ascension, East Baton Rouge, and Iberville Parishes, LA As a sub to Michael Baker, Austin served as the SUE Project Manager for the utility portion of this Stage 0 feasibility study. This project involved providing ASCE 38-02 Quality Level D, GIS, and LiDAR review services with an emphasis on the pipelines within the corridor. Along with obtaining the utility records, field investigations were also performed to verify ownership and location of these highly impactful pipelines.

Firm employed by: T. Baker Smith, LLC					
Name	Perry Smith Jr.		Years of relevant experience with this employer	6	
Title	SUE Senior Project Manager		Years of relevant experience with other employer(s)	18	
Degree(s) / Years / Specialization			Associate of Science / 2007 / Electronics		
Active registration number/state/expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Senior Technician. Perry will provide Subsurface Utility Engineering services.		
					
Perry is a Senior Subsurface Utility Engineering (SUE) Project Manager with more than 24 years of experience delivering utility investigation services for transportation and roadway infrastructure projects. His extensive background encompasses all phases of SUE project execution, including utility field investigations, field crew supervision, survey quality assurance/quality control (QA/QC), proposal development, project management, deliverable preparation, and client coordination. Throughout his career, Perry has managed and supported numerous Louisiana Department of Transportation and Development (LADOTD) assignments, including several of the department's largest and most complex SUE projects. He currently oversees multiple task orders for both LADOTD and the Mississippi Department of Transportation (MDOT), while also managing a diverse portfolio of public and private sector projects. Perry possesses comprehensive knowledge of the ASCE/UESI 38-22 Standard Guideline for Investigating and Documenting Existing Utilities and is highly proficient in the technologies and methodologies required to achieve the appropriate Utility Quality Levels. He is also a certified ATSSA Traffic Control Supervisor (TCS).					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
005/21 – 10/23	S.P. No. 4400014661, IDIQ SUE Services Statewide; LADOTD; Statewide, LA Served as Task Manager and Project Manager for 15 separate Subsurface Utility Engineering (SUE) task orders, overseeing project execution from initiation through final delivery. Responsibilities included managing scope, schedule, budget, resource allocation, client coordination, and quality control for Quality Level B and Quality Level A utility investigations. Ensured compliance with project requirements and LADOTD standards while maintaining project schedules and deliverable quality. Led comprehensive QA/QC reviews of topographic survey data and utility mapping to verify accuracy and conformance with ASCE 38-02 guidelines prior to submission to LADOTD.				
05/23 – Present	S.P. No. 4400025511, IDIQ SUE Services Statewide; LADOTD; Statewide, LA Provides project management for multiple Subsurface Utility Engineering (SUE) task orders, overseeing all aspects of project delivery, including scope management, scheduling, budgeting, resource allocation, and client coordination. Leads Quality Level B and Quality Level A utility investigations, ensuring compliance with LADOTD requirements and ASCE 38-22 standards while maintaining schedule and budget objectives. Directs field operations and quality management processes, including detailed QA/QC reviews of topographic survey and utility mapping data, to ensure accurate deliverables that support successful project outcomes.				
12/23 - Present	North Columbia Street Bridge Replacement; City of Covington; Covington, LA <i>SUE Project Manager.</i> Responsible for all Subsurface Utility Engineering Quality Level A and Quality Level B services and performed QA/QC on the topographic survey submitted to the City of Covington to ensure compliance with ASCE 38-02.				

06/21 – 10/23	S.P. No. H.003931.5, Calcasieu River Bridge (HBI); LADOTD; Calcasieu Parish, LA <i>Task Manager.</i> Managed all Quality Level A SUE services and provided QA/QC for Quality Level B SUE services to ensure compliance with ASCE 38-02. Performed records research for all utility companies and verified all available records were obtained.
01/22 – 07/22	S.P. H.012541.5, LA 594, Overpass I-20; LADOTD; Ouachita Parish, LA <i>Field Manager.</i> Managed the field staff providing Subsurface Utility Engineering Quality Level B and Quality Level C services and performed QA/QC on the field data.
10/21 – 03/22	S.P. H.014747.5, Southern University Ravine Protection; LADOTD; East Baton Rouge Parish, LA <i>Field Manager.</i> Managed the field staff providing Subsurface Utility Engineering Quality Level B and Quality Level C services and performed QA/QC on the field data. Ensured all work was completed within the truncated time frame.
11/21 – 02/22	S.P. H.014670.5, LA 1270: LA 77 to End of Control Section; LADOTD; Iberville Parish, LA <i>Field Manager.</i> Managed the field staff providing Subsurface Utility Engineering Quality Level B and Quality Level C services and performed QA/QC on the field data. Ensured all work was completed within the truncated time frame. LADOTD Location and Survey field staff performed the topographic survey and we ensured a smooth working environment for data collection
03/22 – 09/22	MovEBR Plank – Nicholson, Subsurface Utility Engineering; City/Parish of Baton Rouge; Baton Rouge, LA <i>SUE Field Manager.</i> Providing SUE services with the 15 designated project sites in general accordance with the recommended practices and procedures described in ASCE Publication CI/ASCE 38-22, Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data.

Firm employed by: T. Baker Smith, LLC					
Name	Kaleb Brooks		Years of relevant experience with this employer	5	
Title	SUE Field Manager		Years of relevant experience with other employer(s)	6	
Degree(s) / Years / Specialization			N/A		
Active registration number/state/expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Senior Technician. Kaleb will serve as Subsurface Utility Engineering Field Manager.		
Kaleb Brooks is a SUE Field Manager experienced in Subsurface Utility Engineering and Utility Locating. He designates and locates subsurface utilities according to ASCE 38-02 Quality Levels A and B and acquires utility records for ASCE 38-02 Quality Level D investigations as well as collects necessary data for the use in a professional's judgment for ASCE 38-02 Quality Level C investigations. Kaleb performs Quality Assurance checks on all field work performed to ensure the utility locations depicted are in accordance with ASCE 38-02.					
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
06/21 -10/23	IDIQ SUE Services, Contract No. 4400014661 (LADOTD) Statewide, LA <i>Senior SUE Technician / Field Manager.</i> Performed field SUE Quality Level B designation. Responsible for the preparation of detailed field notes for all utilities designated, field sketching of designation markings, and preparation of data sheets. In his field manager role, he coordinated field staff, ensured QA/QC standards were met, and collaborated with the Project Manager to identify and solve potential issues as they were identified in the field.				
05/24 - Present	IDIQ SUE Services, Contract No. 44000025511 (LADOTD) Statewide, LA <i>Field Manager.</i> On numerous projects throughout the state, ranging from small to extremely large, Perry provides project oversight, coordination, and progress tracking in collaboration with DOTD, surveyors, CAD designers, and field crews. His responsibilities include organizing and attending utility coordination meetings, preparing status updates and phased deliverables, reviewing permits and contracts, monitoring timesheets, invoices, and project financials, conducting QA/QC methodology reviews, and leading weekly SUE coordination meetings.				
06/21 – 10/23	S.P. No. H.003931.5, Calcasieu River Bridge (HBI); LADOTD; Calcasieu Parish, LA <i>Field Manager.</i> Managed all Quality Level A SUE services and provided QA/QC for Quality Level B SUE services to ensure compliance with ASCE 38-02. Performed records research for all utility companies and verified all available records were obtained.				
10/21 – 03/22	S.P. H.014747.5, Southern University Ravine Protection; LADOTD; East Baton Rouge Parish, LA <i>Senior SUE Technician.</i> Managed the field staff providing Subsurface Utility Engineering Quality Level B and Quality Level C services and per-formed QA/QC on the field data. Ensured all work was completed within the truncated time frame.				
11/21 – 02/22	S.P. H.014670.5, LA 1270: LA 77 to End of Control Section; LADOTD; Iberville Parish, LA <i>Senior SUE Technician.</i> Managed the field staff providing Subsurface Utility Engineering Quality Level B and Quality Level C services and performed QA/QC on the field data. Ensured all work was completed within the truncated time frame. LADOTD Location and Survey field staff performed the topographic survey and we ensured a smooth working environment for data collection.				

Firm employed by: T. Baker Smith, LLC					
Name	Rebecca Roussel		Years of relevant experience with this employer	2	
Title	Project Designer		Years of relevant experience with other employer(s)	8	
Degree(s) / Years / Specialization			Associate of Arts / 2011 / Drafting and Design		
Active registration number/state/expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			CADD Technician. Rebecca will provide technical support.		
Rebecca Roussel is an experienced Project Designer with ten years of experience in collaborating with engineers, drafters, designers, and other team members to deliver high-quality project outputs. Rebecca has consistently ensured the timely submission of drawing packages, meeting project deadlines and requirements. Her experience spans both large- and small-scale projects, including the conversion of drawings from MicroStation or Raster to AutoCAD, as well as producing accurate as-built documentation. Rebecca's attention to detail and strong collaboration skills have contributed to the successful completion of numerous projects across different scales and complexities.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
08/24 - Present	S.P. No. 4400025511, IDIQ SUE Services Statewide; LADOTD; Statewide, LA Acts as CAD Designer for multiple task orders involving Subsurface Utility Engineering (SUE) services, providing technical drafting services throughout project delivery. Ensures all technical drawings maintain project requirements and applicable industry standards. Verifies compliance with ASCE 38-22 guidelines and facilitates accurate utility mapping.				
08/24 – Present	S.P. No. H.014407, LA 621 at Roddy Rd; Ascension Parish Government; Ascension Parish, LA <i>Project Designer.</i> As part of Ascension Parish's Move Ascension Transportation Program, TBS was selected as the prime consultant for the Roddy Road Safety Widening project from LA 935 to LA 621. The project includes 1.5 miles of roadway widening from the existing 10' travel lanes and minimal shoulders to 12' travel lanes with four-foot shoulders and associated roadside ditch improvements. The existing Roddy Road Bridge over Black Bayou will be replaced with a six-span concrete bridge having a 32' clear width to match the new roadway section. All portions of Roddy Road will be reconstructed due to poor existing pavement and base. As a part of the overall design, TBS provided intersection design for four intersections through the project length, including one state highway intersection at LA 934 which was designed as a four-way stop.				

Firm employed by: T. Baker Smith, LLC					
Name	Jean Reulet, III, PLS		Years of relevant experience with this employer	3	
Title	Lead Professional, Transportation Survey		Years of relevant experience with other employer(s)	13	
Degree(s) / Years / Specialization			BS / 2011 / Geomatics		
Active registration number/state/expiration date			PLS.5145 / Louisiana / 03-31-2028		
Year registered	2015	Discipline	Professional Land Surveyor		
Contract role(s) / brief description of responsibilities			Surveyor. Jean will manage Right of way and topographic surveying services. Satisfies MPR #6 and #7.		
Jean Reulet, III, PLS serves as TBS' Surveying Lead Professional of Transportation. His field experience for LADOTD projects began in 2011 where he has been involved in dozens of survey projects of various sizes across the State of Louisiana. He has participated in all stages of Topographic Survey and Right of Way Map preparation from field data collection to final deliverables according to the LADOTD's Location and Survey Manual. This experience has enabled Jean to develop a very thorough QA/QC process which has been used to train a highly skilled project team. Jean is experienced in the use of cutting-edge technology such as terrestrial and mobile LIDAR methods for collecting topographic and structural data in an efficient and safe manner.					
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
11/21 – Present	Contract 44-21973 IDIQ for Professional Surveying Services; LADOTD; Statewide, LA <i>Project Manager/Surveyor of Record.</i> Jean serves as the project manager and surveyor of record for this Surveying Services IDIQ. He is responsible for manhour estimate preparation and contract negotiations. Jean coordinates with private landowners, railroads, and other entities to obtain right-of-entry prior to survey commencement. He oversees the topographic data collection and processing, utility research, and drainage map development. He also provides QAQC and ensures delivery according to project schedule. To date, Jean has successfully completed 12 task orders (H.009892, H.014414, H.015587, H.016324, H.016326, H.014308, H.015308, H.015449, H.016322, H.016323, H.016333) with one more currently active (H.011242).				
09/25 - Present	S.P. No. H.008069 Peters Road Bridge and Extension (Phase 3); LADOTD; Jefferson and Plaquemines Parishes, LA <i>Surveyor of Record.</i> Responsible for field crew oversight, data processing and review, and deliverables preparation. Performing Topographic, Bathymetric, and Property surveys across approximately 2.8 miles of Virgin terrain for construction of a road between Walker Road and Engineers Road, including a bridge over the Intracoastal Waterway and Bayou Barataria. Right of Way Maps are included in this effort to aid in acquisition of the required Right of Way.				
02/15 – 04/16	S.P. No. H.011137 & S.P. No. H.011152, I-12 (LA 21 to US 190) & I-12 (US 190 to LA 59); LADOTD; St. Tammany Parish, LA <i>Senior Project Manager.</i> Responsible for field crew oversight, data processing and review, and deliverables preparation. Performed topographic survey for widening of Interstate 12, including bridge over the Tchefuncte River.				
03/17 - 04/18	H.004987 US 190 Collins Blvd. Widening; LADOTD; St. Tammany Parish, LA <i>Surveyor of Record.</i> Performed a Topographic Survey for the widening of approximately 3 miles of US 190 in St. Tammany Parish, LA including the replacement of a bridge over the Bogue Falaya River. Coordinated with field crews, technicians, and Subsurface Utility Engineer. Provided QAQC and assisted in Deliverables preparation.				

01/24 - 02/24	S.P. No. H.015555, LA 1077 & Brewster Rd Roundabout; LADOTD / St. Tammany Parish, LA <i>Sr. Project Manager.</i> Jean established project control and performed topographic survey, including development of an existing drainage map, for the design and construction of a roundabout at the intersection of LA 1077 and Brewster Road near Madisonville, Louisiana.
09/22 – 06/23	S.P. No. H.015405, Keller Street Bridge Replacement; St. Tammany Parish Government; St. Tammany Parish, LA <i>Sr. Project Manager.</i> Performed field crew coordination, data processing, project QA/QC and management for Topographic Survey for this bridge replacement project.
06/23 - Present	Contract 44-25027, Infrastructure Investment and Jobs Act (IIJA) Off System Bridge Program District 08; LADOTD; District 08, LA <i>Sr. Project Manager/Surveyor of Record.</i> Oversaw the completion of topographic surveys, property surveys, and right of way maps for the replacement of 12 bridges. Responsible for field crew coordination, project QA/QC, title research, and deliverables preparation. Surveys were performed to LADOTD Location and Survey standards.
07/21 – 02/24	Contract 44-19336, Rural Bridge Replacement Initiative, Ph II (40 bridge structures); LADOTD; Districts 04, 05 <i>Survey Project Manager.</i> Coordinated field crews, processed data daily, and provided QA/QC of deliverables. TBS performed control, topographic, and right of way surveys for the replacement of 40 bridge structures in northern Louisiana. Data was captured to detail the existing bridges themselves, roadways on either side, and surrounding terrain to ensure proper tie into existing surfaces. Cross sections of the channels they cross were also surveyed to provide information for hydraulic modeling. Data is then processed and QA/QC performed and coordinated with in-house engineers designing the replacement bridges. Property surveys of affected tracts of land were also surveyed for any takings or servitudes, and these lines portrayed on right of way maps.
09/21 – 01/23	Contract 44-17598, Rural Bridge Replacement Initiative, Ph I (47 bridge structures); LADOTD; Districts 04, 05, 08, 58 <i>Survey Project Manager.</i> Coordinated field crews, processed data daily, and provided QA/QC of deliverables. TBS performed control, topographic, and right of way surveys for the replacement of 47 bridge structures in northern Louisiana. Data was captured to detail the existing bridges themselves, roadways on either side, and surrounding terrain to ensure proper tie into existing surfaces. Cross sections of the channels they cross were also surveyed to provide information for hydraulic modeling. Data is then processed and QA/QC performed and coordinated with in-house engineers designing the replacement bridges. Property surveys of affected tracts of land were also surveyed for any takings or servitudes, and these lines portrayed on right of way maps.
08/19 - 11/19	SP. No. H.005121.5 LA 1 / LA 415 Connector; LADOTD; West Baton Rouge Parish, LA <i>Senior Project Manager.</i> Responsible for field crew oversight, data processing and review, and deliverables preparation. Performed Topographic survey for construction of a connector Road between LA 415 and LA 1. This project included a hydrographic Survey of a portion of the Intracoastal Waterway.

Firm employed by: T. Baker Smith, LLC					
Name	Ryan DiSalvo, PLS		Years of relevant experience with this employer	9	
Title	SUE Senior Project Manager		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization		BS / 2019 / Geomatics			
Active registration number/state/expiration date		PLS. 5326 / Louisiana / 03-31-2028			
Year registered	2023	Discipline	Professional Land Surveyor		
Contract role(s) / brief description of responsibilities		Surveyor. Ryan will serve as a project surveyor.			
Ryan DiSalvo, PLS is a licensed professional land surveyor in Louisiana. He is primarily responsible for providing technical support to the survey supervisor by calculating, analyzing, organizing, coordinating, and researching information, preparing drawings, and generally providing the necessary CAD support to complete the survey effort.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
11/23 - Present	IDIQ Contract for Roadway Design Services Statewide: H.015576 LA 447 & LA 1025: Roundabout; LADOTD; Livingston Parish, LA <i>Survey Technician.</i> Ryan assisted in the completion of a topographic survey for the design and construction of a roundabout. He coordinated with field crews and processed data daily. Ryan also performed QAQC and aided in Deliverables preparation.				
06/23 - Present	Contract 44-25027, Infrastructure Investment and Jobs Act (IIJA) Off System Bridge Program District 08; LADOTD; District 08, LA <i>Survey Technician.</i> Assisted in the completion of topographic surveys, property surveys, and right of way maps for the replacement of 12 bridges. Assisted with data processing, title research, and preparation of property surveys and right of way maps. Surveys were performed to LADOTD Location and Survey standards.				
06/22 - Present	Contract 4400019336 – Rural Bridge Replacement Initiative Phase II (40 bridge structures), Districts 04 & 05 (LADOTD) <i>Survey Technician.</i> Provided technical survey support for the 40 bridge replacements structures.				
08/20 – 06/22	Contract 44-17598, Rural Bridge Replacement Initiative, Ph I (87 bridge structures); LADOTD; Districts 04, 05, 08, 58 <i>Survey Technician.</i> Assisted in the completion of Topographic Surveys for the replacement of 87 bridge structures in North LA.				
08/25 - Present	Contract 44-21973 IDIQ for Professional Surveying Services; LADOTD; Statewide, LA <i>Survey Technician.</i> Ryan provides technical survey support including coordination with survey crews, assistance with topographic data collection and processing, utility research, drainage map development, and QA/QC review to help ensure accurate deliverables and adherence to project schedules.				
08/22 – 01/26	S.P. No. H.014918 LA 73 Roundabout at Bluff Road Connector; LADOTD/Ascension Parish; Ascension Parish, LA <i>Sr. Technician.</i> Assisted in data processing and project QAQC. Performed Topographic Survey, Property Surveys, and Right-of-Way Mapping for the design and construction of a Roundabout at the intersection of LA 73 and the proposed Bluff Road Connector.				

Firm employed by: T. Baker Smith, LLC					
Name	Jeremy Cormier, PLS		Years of relevant experience with this employer	<1	
Title	Project Manager, Survey		Years of relevant experience with other employer(s)	9	
Degree(s) / Years / Specialization		BS / 2008 / Business Management			
Active registration number/state/expiration date		PLS.5342 / Louisiana / 09-30-2026			
Year registered	2024	Discipline	Professional Land Surveyor		
Contract role(s) / brief description of responsibilities			Surveyor. Jeremy will serve as Project Surveyor.		
Jeremy Cormier, PLS, has experience in managing field crews and performing office work on on-system LADOTD Topographic Surveys. He has performed CAD work and assisted in project management over 10 task orders under 3 separate Topographic IDIQ Contracts with LADOTD. Jeremy will serve as Topographic Task Lead during this contract, and in that role, he will assist the Project Manager in supervising all field and office work performed on task orders. He will also assist the Project Manager in estimating task orders and producing project deliverables ahead of any project deadlines. Jeremy will be responsible for performing the initial layer of QA/QC through all phases of each task order, including the final project deliverables. His responsibilities also include training both office and field staff to ensure LADOTD standards are met on a task order.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
08/25 - Present	Contract 44-21973 IDIQ for Professional Surveying Services; LADOTD; Statewide, LA <i>Project Surveyor.</i> Jeremy serves as the project surveyor for this Surveying Services IDIQ. He assists in the development of man-hour estimates. Jeremy coordinates with survey crews throughout the duration of the survey. He assists in the review of the topographic data collection and processing, utility research, and drainage map development. He also provides QAQC and ensures delivery according to the project schedule.				
11/25 - Present	S.P. No. H.008069.5 Peters Road Bridge and Extension (Ph 3); LADOTD; Jefferson and Plaquemines Parishes, LA <i>Project Surveyor.</i> Provided project surveying support, including control processing, level loop analysis, reviewing level runs and sketches, digital file review, spreadsheet updates, and coordination discussions as needed.				
9/25 - Present	OLHC Bridge Bundle 8; Office of Louisiana Highway Construction; Statewide, Louisiana <i>Project Manager.</i> Jeremy served as the project surveyor for the resurfacing of Westbound Vintage Drive in Kenner, LA. He was responsible for the oversight of field crews, topographic data processing, analysis, and QAQC of lidar data, and deliverables preparation. Survey is complete.				
03/20 - 12/22	H.003931 Calcasieu River Bridge Replacement; LADOTD; Lake Charles, LA <i>Project Manager.</i> Responsible for providing topographic and property surveying services for the I-10 Calcasieu Bridge Replacement. The project is in a combination of dense urban area and interstate system and is approximately 7 miles. Completed terrestrial and mobile LiDAR and conventional topographic data to replace the current bridge.				
09/25 - Ongoing (survey complete 12/25)	S.P. No. H.016392 Vintage Dr Westbound Resurfacing (Duncan Canal to Power Blvd.); City of Kenner/LADOTD; Kenner, LA <i>Project Surveyor.</i> Jeremy served as the project surveyor for the resurfacing of Westbound Vintage Drive in Kenner, LA. He was responsible for the oversight of field crews, topographic data processing, analysis and QAQC of lidar data, and deliverables preparation. Survey is complete.				

05/13 – 03/14	S.P. No. H.002375: Amite River Bridge near French Settlement; LADOTD; Livingston Parish, LA <i>Survey Crew Party Chief.</i> Responsible for control establishment and data collection. Performed Topographic and Bathymetric surveys for construction of a replacement bridge along LA 16 over the Amite River.
06/19 – 08/19	S.P. No. .004791: LA 23: Belle Chasse Bridge and Tunnel (HBI); LADOTD; Orleans and Plaquemines Parish, LA <i>Technician.</i> Responsible for field crew coordination and data processing. Performed Topographic Survey for the construction of a bridge over the Intracoastal Waterway in Belle Chasse, LA.
06/16 – 02/17	S.P. No. H.000263.5 Chef Menteur Pass Bridge; LADOTD; Orleans Parish, LA <i>Technician.</i> Responsible for field crew coordination and data processing. Performed Topographic Survey for the construction of a replacement bridge along US 90 over Chef Menteur Pass.
02/17 – 04/18	S.P. No. H.004987 US 190 Collins Blvd. Widening; LADOTD; St. Tammany Parish, LA <i>Technician.</i> Performed a Topographic Survey for the widening of approximately 3 miles of US 190 in St. Tammany Parish, LA including the replacement of a bridge over the Bogue Falaya River. Responsible for field crew coordination and data processing. Assisted with QAQC and Deliverables preparation.
04/20 – 11/20	S.P. No. H.000688 US 11 Norfolk Southern RR Overpass (HBI); LADOTD; St. Tammany Parish, LA <i>Technician.</i> Responsible for field crew coordination and data processing. Performed a Topographic Survey for the replacement of the US 11 Overpass over the Norfolk Southern Railroad.
11/23 - 06/24	S.P. No. H.015576, LA 447 & LA 1025: Roundabout; LADOTD; Livingston Parish, LA <i>Project Manager.</i> Responsible for field crew oversight and data processing and review. Performed Topographic survey for the design and construction of a roundabout at the intersection LA 447 and LA 1025 near Walker, Louisiana.
01/18 – 04/20	S.P. No. H.004100, I-10: LA 415 to Essen Lane; LADOTD; East and West Baton Rouge Parishes, LA <i>Project Manager.</i> Responsible for field crew oversight, and data processing and review. Performed Topographic survey for the widening of I-10 through Baton Rouge.

Firm employed by: T. Baker Smith, LLC					
Name	Anthony Burns		Years of relevant experience with this employer	4	
Title	Project Manager, Surveyor		Years of relevant experience with other employer(s)	19	
Degree(s) / Years / Specialization			N/A		
Active registration number/state/expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Senior Technician. Anthony will provide survey technical services.		
					
Anthony Burns has over 23 years of experience as a rodman, party chief, and project manager with numerous LA DOTD and City-Parish projects involving topographic, right of way, and boundary surveys. His experience includes conventional and terrestrial LiDAR, and mobile LiDAR scanning. He is thoroughly familiar with LA DOTD Location and Survey Procedures, manuals, and software programs with respect to all requirements. He manages our survey field crews and equipment. He holds ATSSA Traffic Control Technician (TCT), Traffic Control Supervisor (TCS), and Flagger certifications, and is TWIC and OSHA certified.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
11/21 - Present	Contract 44-21973 for Professional Surveying Services; LADOTD, Statewide, LA <i>Senior Technician.</i> Anthony assists in the development of manhour estimates and the completion of topographic surveys under this contract. He coordinates right-of-entry with landowners, manages field crews, and processes data daily. He performs project QA/QC and aids in Deliverables preparation.				
09/25 – Present	S.P. No. H.008069 Peters Road Bridge and Extension (Phase 3); LADOTD; Jefferson and Plaquemines Parishes, LA <i>Senior Technician.</i> Responsible for field crew coordination and data processing. Performing Topographic, Bathymetric, and Property surveys across approximately 2.8 miles of Virgin terrain for construction of a road between Walker Road and Engineers Road, including a bridge over the Intracoastal Waterway and Bayou Barataria. Right of Way Maps are included in this effort to aid in acquisition of the required Right of Way.				
08/19 – 11/19	S.P. No. H.005121.5 LA 1 / LA 415 Connector; LADOTD; West Baton Rouge Parish, LA <i>Technician.</i> Responsible for field crew coordination and data processing. Performed Topographic and Bathymetric surveys across approximately 2.5 miles of Virgin terrain for construction of a connector Road between LA 415 and LA 1, including a bridge over the Intracoastal Waterway.				
02/16 – 02/17	S.P. No. H.005403: Hooper Road Extension; LADOTD, East Baton Rouge and Livingston Parishes, LA <i>Technician.</i> Responsible for field crew coordination and data processing. Performed Topographic and Bathymetric surveys across approximately 3 miles of virgin terrain for the design and construction of the Hooper Road Extension between Greenwell Springs Road and LA 16, including a bridge over the Amite River.				
06/23 - Present	IIJA Off-System Bridge Replacement Program; Contract No. 44-25027; LADOTD; Statewide, Louisiana <i>Project Manager.</i> Assisted in the completion of topographic surveys, property surveys, and right of way maps for the replacement of 12 bridges. Assisted with field crew coordination, data processing, project QA/QC, and deliverables preparation. Surveys were performed to LADOTD Location and Survey standards.				

10/22 - 10/23	Contract 44-17598, Contract 44-19336, Rural Bridge Replacement Initiative, Ph I and Ph II (87 bridge structures); LADOTD; Districts 04, 05, 08, 58 <i>Survey Technician.</i> Responsible for review of topographic surveys.
05/13 – 03/14	S.P. No. H.002375: Amite River Bridge near French Settlement; LADOTD; Livingston Parish, LA <i>Survey Crew Party Chief.</i> Responsible for control establishment and data collection. Performed Topographic and Bathymetric surveys for construction of a replacement bridge along LA 16 over the Amite River.
06/19 – 08/19	S.P. No. .004791: LA 23: Belle Chasse Bridge and Tunnel (HBI); LADOTD; Orleans and Plaquemines Parish, LA <i>Technician.</i> Responsible for field crew coordination and data processing. Performed Topographic Survey for the construction of a bridge over the Intracoastal Waterway in Belle Chasse, LA.
06/16 – 02/17	S.P. No. H.000263.5 Chef Menteur Pass Bridge; LADOTD; Orleans Parish, LA <i>Technician.</i> Responsible for field crew coordination and data processing. Performed Topographic Survey for the construction of a replacement bridge along US 90 over Chef Menteur Pass.
02/17 – 04/18	S.P. No. H.004987 US 190 Collins Blvd. Widening; LADOTD; St. Tammany Parish, LA <i>Technician.</i> Performed a Topographic Survey for the widening of approximately 3 miles of US 190 in St. Tammany Parish, LA including the replacement of a bridge over the Bogue Falaya River. Responsible for field crew coordination and data processing. Assisted with QAQC and Deliverables preparation.
04/20 – 11/20	S.P. No. H.000688 US 11 Norfolk Southern RR Overpass (HBI); LADOTD; St. Tammany Parish, LA <i>Technician.</i> Responsible for field crew coordination and data processing. Performed a Topographic Survey for the replacement of the US 11 Overpass over the Norfolk Southern Railroad.
11/23 - 06/24	S.P. No. H.015576, LA 447 & LA 1025: Roundabout; LADOTD; Livingston Parish, LA <i>Project Manager.</i> Responsible for field crew oversight and data processing and review. Performed Topographic survey for the design and construction of a roundabout at the intersection LA 447 and LA 1025 near Walker, Louisiana.
01/18 – 04/20	S.P. No. H.004100, I-10: LA 415 to Essen Lane; LADOTD; East and West Baton Rouge Parishes, LA <i>Project Manager.</i> Responsible for field crew oversight, and data processing and review. Performed Topographic survey for the widening of I-10 through Baton Rouge.

Firm employed by: T. Baker Smith, LLC					
Name	Matt Stevens		Years of relevant experience with this employer	21	
Title	Hydrographic Marine Solutions Lead		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			Associate of Science / 2005 / Drafting and Design Technology		
Active registration number/state/expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Senior Technician. Matt will provide hydrographic surveying .		
Matthew Stevens has been with TBS for over 20 years and acts as a hydrographic surveyor on both inshore and offshore vessels. He is an American Design Drafting Association certified drafter who is proficient in the use of AutoCAD, Inventor and data processing for all instruments used by TBS in hydrographic surveying. Matt has spearheaded the processing and drafting portion of many large and high-profile projects at TBS. His responsibilities include supervising personnel in hydrographic operations of equipment and collection of data; quality assurance and quality control of hydrographic data; processing and interpretation of raw data collected during field operations; lead supervision of drawing preparation and reports for clients; providing technical assistance to management, client, and field personnel; and troubleshooting and installation of hydrographic survey systems.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
03/14-06/14	LADOTD, S.P. No. H.008149, Pier 1 Removal (Leeville Bridge), LA 1, Lafourche Parish, LA <i>Hydrographic Surveyor.</i> Responsible for performing high resolution multibeam echosounder hydrographic survey to locate remaining pile structure and deliver digital terrain model and elevation data of structure to LADOTD for USCG coordination of the pier removal at the Leeville Bridge.				
11/11 - 01/12	I-10 Twin Span Demolition Survey, Orleans Parish, LA (NASDI, LLC) <i>Hydrographic Surveyor.</i> Hydrographic surveys for identifying and locating debris, pipelines, or other infrastructure on the bottom of the lake for the demolition of the I-10 Twin Spans.				
01/12 - 02/12	St. Bernard Port, Harbor and Terminal District Chalmette Slip Surveys, St. Bernard Parish, LA (St. Bernard Port, Harbor and Terminal District) <i>Hydrographic Surveyor.</i> Performed underwater acoustic hydrographic surveys including multi-beam, side- scan, magnetometry, and sub-bottom surveys in the Mississippi River in order to obtain detailed bottom conditions near the Chalmette Slip docking facility to recover damage heel-post turning dolphins and conduct other inspections.				
02/25 - 03/25	Project No. STBG-0058-01(042)/109105-101100 – SR 50 Bridge Replacement (Bridge No. 85.7); MDOT; Lowndes County, MS <i>Senior Technician.</i> Matt oversaw the completion of a multibeam hydrographic survey of the Tombigbee River channel extending 1,500 feet upstream and downstream of the SR 50 bridge utilizing a twenty-four (24) foot vessel and R2 Sonic 2020 Multibeam Echo Sounder. Following post-processing and QAQC, Matt extracted river bottom elevations at ten (10) feet intervals to be inserted into the final survey DGN.				
07/18 - 08/19	Nashville Wharf Terminal Survey Services, Orleans Parish, LA (AECOM, Ports America, Port NOLA) <i>Hydrographic Surveyor.</i> Hydrographic side-scan and multibeam survey was performed from immediately in front of the wharf to hundreds of feet into the Mississippi River to record the contour of the river bottom for use in design of the proposed improvements to the facility. Also, Detailed topographic survey was performed over the site, including under the wharf to collect the mudline topography from the face of the wharf to the bulkhead.				

Firm employed by: T. Baker Smith, LLC				c			
Name	Kenny Belou, PE		Years of relevant experience with this employer	4			
Title	Engineering Lead Professional, Transportation		Years of relevant experience with other employer(s)	17			
Degree(s) / Years / Specialization			BS / 2009 / Civil Engineering				
Active registration number/state/expiration date			PE.38850 / Louisiana / 09-30-2026				
Year registered	2014	Discipline	Civil Engineering				
Contract role(s) / brief description of responsibilities			Supervisor Engineer Kenny will provide roadway design services. Satisfies MPR #10				
Kenny Belou, PE is TBS' engineering Lead Professional for our transportation practice. His duties include overseeing engineering execution for transportation related projects including design activities, report preparation, construction documents, construction administration, and client satisfaction. He has over 20 years of experience designing projects in accordance with LADOTD's Road Design Manual, Off-System Highway Bridge Program Guidelines, Hydraulics Manual, Bridge Design and Evaluation Manual, AASHTO's Geometric Design of Highways and Streets, and the LADOTD Standards and Specifications for Roads and Bridges.							
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).						
03/23 - Present	Contract 44-24928, IDIQ Contract for Roadway Design Services; LADOTD; Statewide <i>Overall Project Manager.</i> Kenny serves as the overall Project Manager for this statewide IDIQ contract, currently supporting five active task orders with an additional task order in negotiation. In this role, he leads task order development and execution, including defining scopes, preparing fee estimates, and establishing schedules to support LADOTD's project delivery needs. He oversees project activities across multiple concurrent efforts, coordinating closely with LADOTD staff, internal teams, and subconsultants to ensure alignment and responsiveness. Kenny manages budgets and schedules at both the task order and contract level while maintaining consistent delivery of high-quality design packages. His experience includes managing multiple concurrent task orders under this contract and supporting delivery in accordance with LADOTD processes and requirements.						
10/22 - 01/26	S.P. No. H.001344, US 190: LA 437 to US 190 Bus (Ph 1); LADOTD; St. Tammany Parish, LA <i>Project Manager.</i> Kenny served as TBS' project manager during construction support for US 190 Phase 1, which included roadway widening, intersection improvements, drainage design, traffic control, and a new 1,400-foot bridge over the Bogue Falaya River. He oversaw responses to contractor RFIs, shop drawing reviews, submittals, and construction-phase questions, coordinating closely with LADOTD District personnel, LADOTD Headquarters construction staff, the contractor, and the design team. His role helped maintain alignment between the approved plans, design intent, field conditions, and construction-phase decisions.						
10/22 – 04/23	S.P. No. H.013116, LA 20 Widen: LA 307 – S. Vacherie; LADOTD; St. James & Lafourche Parishes, LA <i>Engineer of Record (Road) and Project Manager.</i> Kenny managed the design and delivery of the asymmetrical widening of 2.7 miles of LA 20 to add 8-foot shoulders near Vacherie, Louisiana. As EOR, he was responsible for roadway design including horizontal and vertical alignments, drainage systems (subsurface and open ditch), cross sections, and permanent signing and pavement markings. He performed quality control review of bridge plans to ensure compliance with LADOTD standards and coordinated design efforts with an adjacent in-construction state project within the corridor. Kenny coordinated with LADOTD project management, pavement and hydraulics sections, and subconsultants to maintain alignment with project requirements. He also oversaw the design of utility relocations along the corridor, delivered as a separate project through St. James Parish.						

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

Firm employed by: T. Baker Smith, LLC					
Name	Kelly Radecker, PE		Years of relevant experience with this employer	7	
Title	Lead Transportation Engineer, Roads		Years of relevant experience with other employer(s)	5	
Degree(s) / Years / Specialization			BS / 2014 / Civil Engineering		
Active registration number/state/expiration date			PE.30783 / Louisiana / 03-31-2028		
Year registered	2019	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Engineer. Kelly will provide road design engineering.		
Kelly Radecker, PE is the Lead Roadway Engineer for our Transportation Engineering team. Kelly will serve as the overall road design lead for T. Baker Smith. Prior to joining T. Baker Smith, Kelly gained valuable transportation experience while employed by LADOTD. Kelly is notably experienced in design of roadway widening, roundabouts, drainage, and bridge replacement and reconstruction in accordance with LADOTD's Roadway Design Procedures and Details Manual, LADOTD's Hydraulics Manual, and DOTD plan preparation guidelines. She is familiar with AASHTO standards and guidelines. She is skilled in development of roadway models and design, hydraulic analysis, and sign design utilizing MicroStation, InRoads, AutoTURN, Torus, HYDRWIN, GeoHECRAS, and SignCAD.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
02/20 – 12/22	S.P. No. H.012812, US 190 at Northshore and Camp Villere; LADOTD; St. Tammany Parish, LA <i>Engineer of Record.</i> Kelly served as Lead Roadway Engineer for the design and plan preparation of an urban multi-lane roundabout at US 190 and Northshore Boulevard and a single-lane roundabout at US 190 and Camp Villere Road. She was responsible for roadway design including horizontal and vertical alignments, roundabout geometrics, drainage systems (subsurface and open ditch), typical sections, sequence of construction, and quantity take-offs. She prepared design reports and cost estimates and coordinated environmental efforts, including public meeting exhibits. Kelly also provided QA/QC of subconsultant deliverables, including traffic signal design and signing and striping plans.				
11/23 – Present	S.P. No. H.015576, LA 447 & LA 1025: Roundabout; LADOTD; Livingston Parish, LA <i>Engineer of Record.</i> Kelly serves as Engineer of Record for the design and plan preparation of an urban single-lane roundabout at the intersection of LA 447 and LA 1025 as a task order under the LADOTD Roadway Design Services IDIQ contract. She is responsible for overall project execution including development of preliminary layouts, defining project limits, and roadway design elements such as horizontal and vertical alignments, roundabout geometrics, AutoTURN movements, drainage systems (subsurface and open ditch) typical sections, sequence of construction, and quantity take-offs. Kelly leads preparation of design report forms and cost estimates and coordinates environmental efforts, including development of exhibits, public meeting materials, and participation in stakeholder coordination and attendance of the public meeting. She supports scheduling and coordination of public meetings and presentations in accordance with LADOTD environmental requirements. Kelly coordinates with LADOTD and subconsultants to maintain alignment with project requirements and schedule.				
03/24 - 02/26	S.P. No. H.015554, Loyola Drive Resurfacing; City of Kenner, LA <i>Engineer of Record.</i> Kelly serves as Lead Roadway Engineer for this pavement preservation project. She is responsible for plan production, quantity calculations, and cost estimates for mill and overlay improvements, curb ramp upgrades, and pedestrian features. She coordinates with LADOTD, the City of Kenner, and subconsultants to ensure project delivery aligns with program requirements.				
01/25 - Present	S.P. No. H.015587, LA 3211 @ Yokley Road Roundabout; LADOTD; St. Mary Parish, LA				

	<i>Engineer of Record.</i> Kelly serves as the Lead Roadway Engineer and Engineer of Record for this concrete, single-lane roundabout at the intersection of LA 3211 and Yokley Road as a task order under the LADOTD Roadway Design Services IDIQ contract. Designed as a task order under the LADOTD Roadway Design Services Statewide IDIQ, the project includes slip lanes at all four legs and ties into existing four-lane divided median sections on LA 3211. Kelly is responsible for full roadway design and plan development, including horizontal and vertical alignments, roundabout geometry, AutoTURN analyses, joint layouts, drainage systems (subsurface and open ditch) typical sections, and construction phasing. Kelly leads preparation of design report forms and cost estimates and coordinates environmental efforts, including development of exhibits, public meeting materials, and participation in stakeholder coordination and attendance of the public meeting. She also supported review of existing drainage mapping to assist survey development and deliverables.
06/25 – 02/26	S.P. No. H.016095, LA 70 Rehabilitation; LADOTD; St. Mary Parish, LA <i>Project Engineer.</i> Kelly provided independent QA/QC review of subsurface drainage design for this urban roadway rehabilitation project as a task order under the LADOTD Roadway Design Services IDIQ contract. She coordinated with the Engineer of Record to ensure compliance with LADOTD hydraulic requirements and reviewed plans and supporting calculations for accuracy and completeness.
05/19-03/23	S.P. No. H.011152, I-12: US 190 to LA 59; LADOTD; St. Tammany Parish, LA <i>Project Engineer.</i> Kelly served as the Project Engineer for the design and plan development for signing and pavement marking improvements along I-12 between US 190 and LA 59. She developed signing layout plans, including ground-mounted and overhead sign support locations, and coordinated guardrail design associated with sign installations. Kelly prepared sign shop drawings for non-standard signs using SignCAD, developed clearance diagrams for overhead structures, and completed the Engineering Record of Decision Document (ERDD).
01/16 – 05/19	S.P. No. H.002424, LA 70: Sunshine Bridge – LA 22; LADOTD; St. James Parish, LA <i>Project Engineer.</i> Kelly supported design and plan preparation for the widening of approximately 4 miles of LA 70 from the Sunshine Bridge to LA 22, expanding the corridor from two lanes to a four-lane divided roadway. She assisted in development of roadway design elements including typical sections, median layouts, and access management features such as median openings and J-turns. Kelly contributed to plan production and coordination with the project team to support delivery in accordance with LADOTD standards and requirements.
12/23 – Present	S.P. No. H.015555, LA 1077 / Brewster Road Roundabout; St. Tammany Parish Government; St. Tammany Parish, LA <i>Engineer of Record.</i> Kelly leads roadway design and plan preparation for this roundabout project. She is responsible for development of roadway geometry, AutoTURN analyses, drainage systems (subsurface and open ditch), typical sections, quantity take-offs, and construction sequencing. Kelly leads preparation of design report forms and cost estimates and coordinates environmental efforts, including development of exhibits, public meeting materials, and participation in stakeholder coordination and attendance of the public meeting. She supports scheduling and coordination of public meetings and presentations in accordance with LADOTD environmental requirements.
09/25-Present	S.P. No. H.010795, LA 42: Roundabout at Joe Sevario Road; LADOTD; Ascension Parish, LA <i>Engineer of Record.</i> Kelly serves as Engineer of Record for the design and plan preparation of an urban single-lane roundabout at the intersection of LA 42 and Joe Sevario Road as a task order under the LADOTD Roadway Design Services IDIQ contract. She is responsible for overall project execution including development of preliminary layouts, defining project limits, and roadway design elements such as horizontal and vertical alignments, roundabout geometrics, drainage systems (subsurface and open ditch), AutoTURN movements, typical sections, sequence of construction, and quantity take-offs. Kelly coordinates with LADOTD and subconsultants to maintain alignment with project requirements and schedule.

Firm employed by: T. Baker Smith, LLC					
Name	Daniel Binet, PE		Years of relevant experience with this employer	13	
Title	Lead Engineer, Bridges		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS / 2014 / Civil Engineering		
Active registration number/state/expiration date			PE.42997 / Louisiana / 03-31-2027		
Year registered	2018	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Engineer. Daniel will serve as a Project Engineer providing bridge and roadway design engineering services. Satisfies MPR #11		
					
Daniel Binet, PE is the Lead Engineer, Bridges at TBS with over 13 years of experience in civil and structural engineering. His experience includes project/ task management, roadway design, urban and rural bridge replacement and rehabilitation design, bridge widening, bridge inspection, structural analysis, split phase construction sequencing, hydrologic/hydraulic analysis, construction support, and development of construction quantities and estimates. Daniel is very familiar with the AASHTO LRFD Bridge Design Specifications, AASHTO geometric and roadside design guides, LADOTD Bridge Design & Evaluation Manual, LADOTD plan preparation guidelines, and LRFR bridge rating procedures. He is also experienced in using AASHTO BrR, STAAD Pro V8i, LEAP CONSPAN structural analysis software, AutoCAD, MicroStation, InRoads and CADConform. Daniel is also a certified NBIS Bridge Inspection Team Leader, holds ATSSA Traffic Control Supervisor (TCS) certification, and has completed the CPTP SCS Cybersecurity WBT training.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
09/15 - 03/23	S.P. No. H.011152, I-12: US 190 to LA 59; LADOTD; St. Tammany Parish, LA <i>Engineer of Record / Project Engineer.</i> Daniel performed bridge design and plan preparation for the widening of Ponchitolawa Creek (EB & WB) and Tammany Trace (EB & WB) bridges utilizing AASHTO Type III prestressed girders and reinforced concrete slab spans with varying skew and span lengths. The design was completed using LEAP CONSPAN, STAAD and AASHTO BrR for load rating. He managed production and produced plans and details for the widening which included partial bridge demolition, foundation plans, split phase construction sequencing, widened substructure and superstructure details, and quantity breakdowns. Additionally, he assisted with roadway design including geometrics and drainage. Once the plans were submitted, Daniel provided construction support for RFIs, shop drawing submittals, and general coordination.				
09/18 – 02/26	S.P. No. H.001344, US 190: LA 437 to US 190 Bus (Ph 1); LADOTD; St. Tammany Parish, LA <i>Engineer of Record/Project Engineer.</i> This project serves to design and construct a new westbound bridge over the Bogue Falaya River in St. Tammany Parish, LA. The bridge features horizontal and vertical curvature with super-elevation near 4%. Adjacent roadway sections are also being improved and widened. Daniel performed bridge design tasks including a Bridge Alternative Study; developed Type, Size and Location (TS&L) plans for prestressed concrete (LG) girder spans and curved steel plate spans; and developed preliminary & final bridge plans for a column supported, 1,400’ long bridge using LG 36 and LG 54 prestressed concrete girders. He produced foundation layouts, typical sections, general plan and elevation sheets, and structural details for the new bridge over the Bogue Falaya River as part of this Urban Arterial widening project.				
08/20 - 12/24	Contract 44-17598, Rural Bridge Replacement Initiative, Ph I (47 bridge structures); LADOTD; Districts 04, 05, 08, 58 <i>Engineer of Record/Project Manager.</i> The overall project scope for these projects includes the replacement of 47 bridges				

	throughout 10 Parishes in Louisiana under an expedited schedule. The bridge lengths ranged from 20' - 340'. As project manager, Daniel performed QC review of topographic surveys & served as the EOR for bridge & road elements including hydraulic analysis, scour, horizontal/vertical alignments, bridge TS&L, structural design, & load rating for all structures including LG-25 girders, RC slab spans, & box culverts. Daniel is also providing bridge and structural construction support for contractor submittals and requests for information.
05/21 - Present	Contract 44-19336, Rural Bridge Replacement Initiative, Ph II (40 bridge structures); LADOTD; Districts 04, 05 <i>Engineer of Record/Project Manager:</i> The project scope includes replacing 40 bridges across 6 parishes in Louisiana on an expedited schedule, with bridge lengths ranging from 20 to 240 feet. As project manager, Daniel conducted QC reviews of topographic surveys and served as the EOR for bridge and road elements, including hydraulic analysis, scour, horizontal and vertical alignments, bridge TS&L, structural design, and load rating for all structures, including reinforced concrete slab spans and box culverts. Daniel also provides general construction support as necessary.
05/23 - Present	Contract 44-25027, Infrastructure Investment and Jobs Act (IIJA) Off System Bridge Program District 08; LADOTD; District 08, LA <i>Engineer of Record/Project Manager.</i> The overall project scope includes the replacement of 12 off-system bridges in Central Louisiana. Daniel is performing QC review of topographic surveys & serves as the EOR for bridge & road elements including hydraulic analysis, scour, horizontal/vertical alignments, bridge TS&L, structural design, & load rating for all structures including reinforced concrete slab spans & box culverts.
03/16 – 04/23	S.P. No. H.013116, LA 20 Widen: LA 307 – S. Vacherie; LADOTD; St. James & Lafourche Parishes, LA <i>Engineer of Record for Bridge Design/Project Engineer.</i> Daniel served as an EOR for the asymmetrical widening of 2.7 miles of LA 20 near Vacherie, LA as a part of a rural arterial widening project. He performed all bridge replacement design tasks which included bridge replacement using split-phase construction methods, superstructure and substructure design using various programs including STADD ProV8i, prepared construction phasing details, foundation plans, and led overall bridge plan production efforts. Additionally, Daniel assisted with roadway widening tasks including sequencing and plan production.
09/24 - 02/26	H.016095 LA 70 Rehab: Marguerite St to US 90; LADOTD; St. Mary Parish, LA <i>Engineer of Record.</i> Daniel served as the Engineer of Record for this roadway rehabilitation project in St. Mary Parish. He led the design on all aspects of the project, including development of typical sections, drainage plan and profile sheets, and joint layouts w/ graphical grades. Daniel ensured the project delivery met LADOTD's aggressive schedule.
11/18 - 09/22	S.P. No. H.013144, Pine Bluff Rd./Drain to Cypress Creek & Tack Allen Rd./Drain to Cypress Creek Bridge Replacements; LADOTD; Ouachita Parish, LA <i>Engineer of Record.</i> Daniel served as the Engineer of Record for the Ouachita OSBR project, which involved the replacement of two bridges located on Pine Bluff Rd. and Tack Allen Rd. His extensive responsibilities encompassed vertical and horizontal alignment design, ensuring the new structures integrated seamlessly with the existing roadways, utilizing standard plans where applicable and completed structural design and analysis for a RC slab bridge and a RC box culvert. He also verified the proposed structure hydraulic capacity of both structure types and oversaw the production of the plan set. Daniel provided QC efforts for all plan sheets, including both road and bridge components.

Firm employed by: T. Baker Smith, LLC					
Name	Brady Smith, PE, PMP		Years of relevant experience with this employer	4	
Title	Project Manager, Transportation		Years of relevant experience with other employer(s)	6	
Degree(s) / Years / Specialization			BS / 2016 / Civil Engineering		
Active registration number/state/expiration date			PE.45362 / Louisiana / 09.30.2027		
Year registered	2021	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Engineer. Brady will provide roadway and bridge engineering services		
					
Brady Smith, PE serves as a project manager for projects that include roadway design, bridge replacements, hydrologic and hydraulic analysis, and drainage design. Brady gained valuable transportation experience while employed by LADOTD. He has experience in a wide variety of LADOTD projects including bridge replacements, bridge inspections, bridge load ratings, roundabouts, interstate ramps, and roadway widening. Brady is experienced in AASHTO and LADOTD's Geometric Design Guidelines as well as Bentley InRoads, MicroStation, AutoTURN, Torus, GeoHECRAS, and LADOTD's HYDRWIN programs. Brady has completed CPTP SCS Cybersecurity WBT training as required by LADOTD and is a certified ATSSA Traffic Control Supervisor (TCS).					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
07/25 – 09/25	S.P. No. H.015308, I-49: I-10 to St. Landry Parish Line; LADOTD; Lafayette Parish, LA <i>Engineer of Record.</i> Brady served as the lead engineer for the design and plan production of this pavement preservation project as a task order under the LADOTD Roadway Design Services IDIQ contract. The project included milling, patching, and overlay of approximately 9 miles of interstate, along with guardrail replacement and rehabilitation of concrete sections. He was responsible for roadway design elements including guard rail design and cost estimates and assisted with survey deliverables (performed under Contract 44-21973). Brady ensured delivery of plans within a 45-day accelerated schedule to meet LADOTD's expedited project needs.				
09/24 - Present	S.P. No. H.015721, LA 30: Roundabout @ St Elizabeth/ S Penn; LADOTD; Ascension Parish, LA <i>Engineer of Record.</i> Brady serves as Engineer of Record for this urban multi-lane roundabout project delivered as a task order under the LADOTD Roadway Design Services IDIQ contract. He is responsible for overall project execution including preliminary schematic layout, defining project limits, and roadway design elements such as horizontal and vertical alignments, roundabout geometrics, AutoTURN analyses, typical sections, construction phasing, and quantity take-offs. He leads preparation of design report forms and cost estimates and supports environmental coordination, including development of exhibits for public meetings and stakeholder coordination.				
05/23 - Present	Contract 44-25027, Infrastructure Investment and Jobs Act (IIJA) Off System Bridge Program District 08; LADOTD; District 08, LA <i>Project Manager/Engineer of Record.</i> Brady manages delivery of multiple bridge replacement projects under this program, including development of project schedules, subconsultant coordination, and manhour estimation. He leads roadway and bridge design including horizontal and vertical alignments, bridge hydraulic design, cross sections, guardrail calculations, and cost estimates. He oversees plan production, QA/QC, and development of project documentation including Design Report Forms,				

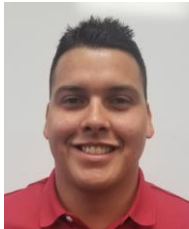
	Bridge and Hydraulic Design Criteria, Design Exceptions, and Design Waivers while coordinating with LADOTD and stakeholders across multiple concurrent projects.
03/23 – 07/23	S.P. No. H.013116, LA 20 Widen: LA 307 – S. Vacherie; LADOTD; St. James & Lafourche Parishes, LA <i>Project Engineer.</i> Brady supported delivery of this roadway widening project involving asymmetrical widening of approximately 2.7 miles of LA 20 to add 8-foot shoulders. He led final QA/QC review and implementation of comments for construction plans, including horizontal and vertical geometry, drainage design, cross sections, and signing and pavement markings, ensuring compliance with LADOTD standards.
02/22 – Present	Contract 44-19336, Rural Bridge Replacement Initiative (Phase II); LADOTD; Multiple Districts <i>Engineer of Record.</i> Brady serves as lead engineer for design and plan production of multiple bridge replacements across north Louisiana. He is responsible for roadway and bridge design elements including alignment, hydraulics, cross sections, guardrail design, and cost estimates. He performs load rating analysis and provides QA/QC for additional structures, and oversees development of environmental deliverables and project documentation including design reports and hydraulic criteria.
07/24 – Present	23-EN-HC-0029, Highland Road at Pecue Lane; City of Baton Rouge, East Baton Rouge Parish, LA <i>Project Manager / Engineer of Record.</i> Brady manages project execution including schedule development, stakeholder coordination, and subconsultant management for this intersection improvement project. He has led development of the Design Study, including traffic analysis, environmental documentation, drainage mapping, and right-of-way mapping, and will serve as Engineer of Record for final design and plan production.
10/23 – Present	S.P. No. H.012864, Carmel Drive Sidewalks; Lafayette Consolidated Government; Lafayette Parish, LA <i>Project Manager/ Engineer of Record.</i> Brady leads design and plan production for approximately 0.7 miles of ADA-compliant sidewalks. He is responsible for development of roadway and pedestrian design elements including alignments, drainage, cross sections, and cost estimates, ensuring compliance with local and LADOTD standards.
09/22 – Present	Eagle's Nest Ct. Bridge Rehabilitation; Terrebonne Parish, LA <i>Project Manager.</i> Brady leads inspection, analysis, and rehabilitation design for this bridge structure. He served as Engineer of Record for bridge inspection and load rating analysis and continues to lead design development and construction plans for rehabilitation improvements, coordinating with stakeholders to maintain project delivery.
04/17 – 02/19	S.P. No. H.010124, LA 16: Roundabout @ LA 447; LADOTD; Livingston Parish, LA <i>Project Engineer.</i> Brady supported design and plan production for this roundabout project including roadway geometry, drainage design, construction phasing, traffic control, right-of-way determination, and cost estimation, contributing to successful project delivery.
01/17 – 02/19	S.P. No. H.008312, LA 1042 Bridges Near Greensburg; LADOTD; St. Helena Parish, LA <i>Project Engineer.</i> Brady supported design and plan production for bridge replacement projects including roadway geometry, diversion road design, construction phasing, traffic control, and cost estimation. The project included replacement of multiple timber trestle bridges with concrete structures while maintaining traffic through diversion routes.

Firm employed by: T. Baker Smith, LLC					
Name	Daniel Fontenelle, PE.		Years of relevant experience with this employer	5	
Title	Project Engineer, Transportation		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization		BS / 2021 / Civil Engineer			
Active registration number/state/expiration date		PE.50693 / Louisiana / 03-31-2028			
Year registered	2025	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities		Engineer. Daniel will serve as a Project Engineer providing bridge and roadway engineering services.			
Daniel Fontenelle, PE has over five years of experience in civil engineering, with expertise in off-system and on-system bridge design and bridge inspections by assisting in the plan production and design of over 80 bridge sites and inspection of over 40 bridges. He is proficient in MicroStation and utilizes GeoHECRAS, STAAD, BrR, LEAP Bridge programs.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
03/23 - Present	S.P. No. H.001344, US 190: LA 437 to US 190 Bus (Ph 1); LADOTD; St. Tammany Parish, LA <i>Project Engineer.</i> Daniel provided design and construction-support assistance for US 190 Phase 1, including plan production, quantity checks, bridge plan revisions, and coordination of revised plan sheets during construction. His construction-support work included assistance with change orders, RFIs, drainage summary updates, riser elevation adjustments, girder camber-related plan revisions, revetment updates, quantity revisions, and preparation of revised sheets for DOTD submittal.				
11/23 - Present	S.P. No. H.015576, LA 447 & LA 1025: Roundabout; LADOTD; Livingston Parish, LA <i>Project Engineer.</i> Daniel supports roadway plan development, drainage and hydraulic design, quantity development, and suggested sequence of construction for this single-lane roundabout.				
05/23 - Present	Contract 44-25027, Infrastructure Investment and Jobs Act (IIJA) Off System Bridge Program District 08; LADOTD; District 08, LA <i>Project Engineer.</i> Daniel provides design and plan production for several sites of the twelve off-system bridge replacements (9 state projects) throughout LADOTD District 08. In addition to the typical bridge design elements, Daniel also designs the H&V alignments, typical sections, roadway cross section elements, geometric layouts, and cost estimate preparation. He also drafts design exceptions for site specific limitations. Daniel performs hydraulic analysis including the calculation of peak discharge at the bridge structure.				
06/21 - Present Ph I 07/21 - Ongoing Ph II	Contract 44-17598, Contract 44-19336, Rural Bridge Replacement Initiative, Ph I and Ph II (87 bridge structures); LADOTD; Districts 04, 05, 08, 58 <i>Project Engineer.</i> Daniel is assisting in producing engineering drawings & plan sets, developing horizontal & vertical roadway alignments, reviewing engineering drawings, interpreting LADOTD standard plans, performing bridge calculations, designing rebar layouts, guard rail design, quantifying bridge & roadway elements, compiling & developing load rating reports, cost estimates, & attending plan-in-hand meetings with the client regarding the project’s status and questions. He also utilized GEO-HECRAS to perform hydraulic & scour calculations.				

Firm employed by: T. Baker Smith, LLC					
Name	Michael Brodnax Jr., PE		Years of relevant experience with this employer	7	
Title	Project Engineer, Transportation		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization		BS / 2019 / Civil Engineering			
Active registration number/state/expiration date		PE.48622 / Louisiana / 09-30-2026			
Year registered	2024	Discipline	Civil Engineer		
Contract role(s) / brief description of responsibilities			Engineer. Michael will serve as a Project Engineer providing bridge and roadway design engineering services.		
Michael Brodnax, Jr., PE is a transportation project engineer and structural specialist with extensive experience in bridge inspection, load rating, and transportation infrastructure design. Since 2019, he has led multidisciplinary inspection teams across multiple states, managing logistics for hundreds of NBIS and SNBI bridge inspections each year while ensuring strict compliance with AASHTO standards and agency requirements. Michael oversees quality control for inspection reporting and load ratings, provides technical guidance to inspection staff, and serves as a primary liaison for state transportation agencies. His design expertise includes prestressed girder systems, substructure components, steel repairs, and emergency structural response following damage events. He has contributed to major design-build programs, developed construction repair plans, reviewed contractor submittals, and supported field verification of structural work. Proficient in AASHTOware BrR, LEAP Bridge Concrete, STAAD, and MicroStation, Michael brings a balanced skill set of technical depth, project leadership, and a strong commitment to safe, reliable transportation infrastructure.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
09/19 - 03/23	Loyola/I-10 Interchange Design Build; LADOTD; Kenner, LA <i>Structural Engineer in Training.</i> Designed prestressed concrete LG girders, concrete pile caps, concrete hammerhead piers, and precast concrete sound barriers. Calculated elevations and summary of quantities for various bridge components. Assisted in plan development of structural details using MicroStation software. Reviewed construction shop drawings of rebar, prestressed concrete girders, deck grades, and temporary shoring towers.				
01/20 - 10/23	SR27 Over Little White Oak Creek; MDOT; Copiah County, MS <i>Structural Engineer in Training.</i> Designed FIB36 prestressed girders, concrete multi column bents, and concrete abutments. Estimated quantities and elevations. Assisted with plan development and drafting. Assumed responsibility for construction administration including RFI's and reviewing contractor submittals.				
01/21 - 02/26	SR601/I10 Interim Interchange; MDOT; Gulfport, MS <i>Structural Engineer.</i> Designed prestressed girder spans and multi column bents using LEAP Bridge Concrete software. Completed as-designed load ratings using AASHTOware BrR software. Assisted in plan development. Estimated quantities and elevations.				
01/26 - Present	FY26 Bridge Bundle Program - LA 1071 over Creek / LA 1036 over Tickfaw River / LA 444 over Dunham Bayou; Office of Louisiana Highway Construction; Statewide, LA <i>Project Engineer.</i> TBS is the prime consultant for OLHC's 2026 Bridge Bundle Program engineering services for nine bridge replacement projects across Districts 02, 61, and 62. Michael is developing and QC'ing LEAP Bridge models for substructure and prestressed superstructure, including abutments and intermediate bents; produces preliminary plans, coordinates structural layouts, and supports weekly financial, resource, and transportation management meetings.				

07/24 - 02/26	I-10 Over Trinity Canal Bridge Repairs; LADOTD; Iberville Parish, LA <i>Structural Engineer.</i> Develop design repair plans for damaged concrete wingwall, bridge rail, and abutment cap. Responsible for construction admin such as RFI's, NCR's, and contractor submittals.
03/26 - Present	Roddy Road Bridge over Black Bayou, MA-17-01; Ascension Parish Government; Ascension Parish, LA <i>Project Engineer.</i> TBS has been contracted to provide all engineering and related professional services necessary to develop complete construction plans for the spot bridge replacement at the Roddy Road hydraulic crossing over Black Bayou. Michael is leading roadway and bridge design coordination from project kickoff through plan production, reviewing scope, profiles, drainage, and models; coordinated multidisciplinary staff, addressed plan markups, revised criteria, conducted monthly client meetings, tracked schedules, and prepared invoices to support timely, accurate deliverables.
03/24 - 03/25	SR28 Over Pearl River Bridge Repairs; MDOT; Simpson County, MS <i>Inspection Team Leader, Structural Engineer.</i> Coordinated and led emergency damage inspection on SR28 steel truss bridge over the Pearl River. Developed design repair plans including the replacement of top chords, verticals, sway frames, and portals. Reviewed contractor submittals including temporary shoring plan, phasing, and steel members. Provided on-site construction observations on behalf of Mississippi Department of Transportation.
09/19 - 02/26	Mississippi Statewide Bridge Inspections/Load Ratings; Mississippi Office of State Aid Road Construction (OSARC) <i>Assistant Project Manager, Bridge Inspection Team Leader.</i> Planned logistics for over 300 bridge inspections per year. Responsible for client correspondence. Completed labor fee estimates for inspections, load ratings, and reporting. Oversaw quality control for inspection reporting and load rating. Led inspection teams to complete NBIS and SNBI bridge inspections on various timber, concrete, and steel superstructure and substructure types. Load rated bridges using AASHTOware BrR and LEAP Bridge Concrete software in accordance with AASHTO Standard Specifications 2002 and AASHTO LRFD.
11/24 - 02/26	Routine Bridge Inspections; TXDOT; Statewide, TX <i>Bridge Inspection Team Leader, Load Rater.</i> Task manager for all inspection reporting and load ratings. Responsible for quality control of load ratings and inspection reports. Lead team on routine bridge inspections of various steel and concrete superstructure and substructures.

Firm employed by: T. Baker Smith, LLC					
Name	Cy Toups, PE		Years of relevant experience with this employer	19	
Title	Lead Professional, Environmental		Years of relevant experience with other employer(s)	4	
Degree(s) / Years / Specialization		BS / 2002 / Environmental Engineering			
Active registration number/state/expiration date		PE.33966 / Louisiana / 09.30.2026			
Year registered	2008	Discipline	Environmental Engineer		
Contract role(s) / brief description of responsibilities		Environmental Manager. Cy will provide environmental services for the project. Satisfies MPR #4.			
Cy Toups, PE is a Louisiana-licensed environmental engineer focused on NEPA processes, environmental assessments, and regulatory compliance. With 23 years of experience in the industry, Cy leverages his diversified environmental and regulatory experience to perform due diligence on powerline transmission projects, commercial developments, and public infrastructure improvements that benefit our communities. Cy's passion for improvement in our communities is shown in his commitment to the NEPA process to help strengthen project success and implementation.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
03/19-05/21	S.P. No. H.0115116, LA 20 Widening (LA 307 to S. Vacherie) LADOTD St. James and Lafourche Parishes, LA <i>Environmental Professional.</i> Prepared NEPA document (Categorical Exclusion), developed and edited NEPA documents with LADOTD/FHWA comments, stakeholder comments, public meetings, wetland delineation, T&E reporting, alternative analyses, farmlands and mitigation justification, assisted with USACE, LADNR and USCG permit drawings for the 2.5-mile roadway widening and bridge replacement project.				
07/23 - Present	S.P. No. H.015555, LA 1077 & Brewster Rd Roundabout; LADOTD / St. Tammany Parish, LA <i>Environmental Lead Professional.</i> Provided NEPA compliance and coordination, to support project development and regulatory requirements. Cy also coordinated and assisted in the development and preparation for the Public Meeting, hosted by St. Tammany Parish Government.				
02/20-10/21	Contract 44-17598 – Rural Bridge Replacement Initiative Phase I LADOTD Districts 04, 05, 08, 58 <i>Environmental Lead / Engineer.</i> Performed QC review of wetland delineation field work and report preparation, prepared Solicitation of Views letters, NEPA Categorical Exclusion Documents, and regulatory permit applications for the replacement of 47 bridge structures in northern Louisiana.				
05/21-Present	Contract 44-19336 – Rural Bridge Replacement Initiative Phase II LADOTD Districts 04 and 05 <i>Environmental Lead / Engineer.</i> Performed QC review of wetland delineation field work and report preparation, prepared Solicitation of Views letters, NEPA Categorical Exclusion Documents, and regulatory permit applications for the replacement of 40 bridge structures in northern Louisiana.				
05/23-Present	Contract 44-25027, Infrastructure Investment and Jobs Act (IIJA) Off System Bridge Program District 08; LADOTD; District 08, LA <i>Environmental Lead / Engineer.</i> Performed QC review of wetland delineation field work and report preparation, prepared Solicitation of Views letters, NEPA Categorical Exclusion Documents and regulatory permit applications for the replacement of 12 bridge structures in District 08.				

Firm employed by: T. Baker Smith, LLC					
Name	Victor Hernandez		Years of relevant experience with this employer	9	
Title	Senior Project Manager, Environmental		Years of relevant experience with other employer(s)	2	
Degree(s) / Years / Specialization			BS / 2014 / Biology		
Active registration number/state/expiration date			N/A		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Environmental Pro. Victor will serve as an environmental professional and will perform environmental services.		
Victor Hernandez is an environmental professional and supports senior professionals in the development, coordination, and management of projects. He coordinates the preparation of environmental permits and conducts environmental research. He conducts and assists with environmental compliance inspections, environmental monitoring studies, environmental assessments, threatened and endangered species surveys. Additionally, he prepares reports and completes field work as necessary to complete documentation for transportation and roadway projects, oil and gas projects, and electrical substations & transmission projects, including SWPPPs/Inspections, SPCC Plans, Phase I ESAs, Phase II ESAs, EAs, EISs, NORM surveys, general soil sampling and confirmatory sampling (RECAP), wetland delineations, coordination of noise and air studies, wildlife identification, endangered species/habitat biological assessments and eagle surveys. Victor also has numerous years of experience with restoration of sensitive habitats such as marsh and other wetlands which were impacted during construction projects, NEPA Environmental Assessments for federally funded projects, general and construction storm water permitting, permitting with LDNR, USACE, and local permits, and general environmental oversight on construction projects.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
06/24 - Present	ENG-17-013, LA 3127 Extension (LA 70 to LA 1), Ascension Parish Government, Ascension Parish, LA <i>Environmental Professional.</i> Conducted wetland delineation field work, prepared report of findings, conducted Threatened & Endangered Species Surveys, and completed the site reconnaissance for the Phase I Environmental Site Assessment.				
01/26 - Present	FY26 Bridge Bundle Program - LA 1071 over Creek / LA 1036 over Tickfaw River / LA 444 over Dunham Bayou; Office of Louisiana Highway Construction; Statewide, LA <i>Environmental Professional.</i> TBS is the prime consultant for OLHC’s 2026 Bridge Bundle Program engineering services for nine bridge replacement projects across Districts 02, 61, and 62. Mr. Hernandez conducted wetland delineation field work, prepared report of findings, conducted Threatened & Endangered Species Surveys, and assisted with desktop environmental reviews and regulatory permitting.				
08/20-08/21	Contract 44-17598 Rural Bridge Replacement Initiative (Phase 1), LADOTD; Districts 04, 05, 08, 58 <i>Environmental Professional.</i> Conducted wetland delineation, T&E species surveys and field work, and USFWS IPAC self determination for all sites for the replacement projects.				
06/21-03/23	Contract 44-19336, Rural Bridge Replacement Initiative (Phase 2); LADOTD; Districts 04 and 05 <i>Environmental Professional.</i> Performed all wetland delineation and threatened and endangered (T&E) field work for the replacement of nine bridge structures in northern Louisiana.				
10/22 - 07/23	Keller Street Bridge Replacement; St. Tammany Parish Government; St. Tammany Parish, LA				

	<i>Environmental Professional.</i> Reviewed the site background and details, coordinated the field work, conducted the wetland delineation, prepared the wetland delineation report, and conducted follow-up delineation tasks for preparation of data sheets and plats.
03/21	North Columbia Street Bridge Replacement; City of Covington; Covington, LA <i>Environmental Professional.</i> Conducted wetland delineation for this bridge replacement project that includes the removal of an existing timber supported bridge and installation of 60' span concrete bridge for the City of Covington.
11/23 - 08/25	IIJA Off-System Bridge Replacement District 08 (Multiple S.P. Nos.); LADOTD; LADOTD District 08 <i>Environmental Professional.</i> Conducted wetland delineation and T&E species surveys and field work. Coordination with GIS personnel for wetland boundary extents, gathering LiDAR data, conducted structure bat assessment, and preparation of detailed reports.
11/19-12/19	Country Estates Dr. / St. Louis Bayou-E, H.013199; LADOTD; Terrebonne Parish, LA <i>Environmental Professional.</i> Performed wetland delineation for the replacement of Country Estates Drive/St. Louis Bayou off-system bridge.

Firm employed by: Ardaman & Associates, Inc.



Name	Megan Bourgeois, PE		Years of relevant experience with this employer	20	
Title	Principal Engineer / Assistant Branch Manager		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS / 2006 / Civil Engineering Traffic Control Supervisor / Louisiana / 6-21-2028 DOTD Flagger / Louisiana / 8-14-2028 Certified NHI Drilled Shaft Inspector		
Active registration number/state/expiration date			PE. 0036725 / Louisiana / 03-31-2028		
Year registered	2011	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Project Manager. Satisfies MPR #9.		
Ms. Bourgeois has more than 20 years of experience with the design and analysis of countless types of foundations, including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA & GEC design, slope stability (embankment and excavation), and earth retaining structures. She also has extensive experience with geotechnical instrumentation, installation and monitoring, and construction phase testing and laboratory management. She has served as Ardaman’s project manager for many LADOTD projects for bridges and roadways throughout Louisiana and completed numerous geotechnical investigations, engineering, and reporting in accordance with LADOTD standards. She has successfully overseen several major contracts for LADOTD and other clients. Ms. Bourgeois also serves as the director of our geotechnical engineering and CMT laboratories in Baton Rouge and has overseen the laboratory testing programs in accordance with LADOTD standards. In this role, she supervises the laboratory managers, oversees testing, provides guidance to laboratory staff, ensures appropriate protocol is followed, and deadlines are met, in addition to providing training material and maintaining all laboratory certifications, including AMRL, CCRL, DEQ & USACE.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
07/23-Present	SP NO. H.013284 / MRB SOUTH GBRL: LA 1 TO LA 30 CONNECTOR: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA <i>Project Engineer.</i> The project consists of an Enhanced Planning investigation into S.P. No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, to construct a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments. Ms. Bourgeois helped oversee supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile all the soil borings and ECPT. The preliminary engineering analyses included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations.				
07/21-01/22	SP NO. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA <i>Project Manager.</i> Managed all aspects of this project about the coordination of fieldwork, including 37 deep soil borings, 39 ECPTs, and 13 geophysical survey transects. A majority of the soil borings were completed from a barge over deep water, some from a marsh buggy over shallow water and thick marsh grass. Ms. Bourgeois also managed and oversaw the laboratory testing program, processing and analyzing the ECPT and ER data. She also assisted with the development of a geotechnical database and the preparation and submittal of a geotechnical data report. This project consisted of obtaining geotechnical data under a				

	strict deadline to be used in the design of a replacement of the existing I-10 Calcasieu River Bridge with a new structure and improvements to various other interchanges.
04/21-Present	SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / RURAL BRIDGE INITIATIVE PHASE II: West Feliciana, East Feliciana, Livingston, and St. Bernard Parishes, LA <i>Project Engineer.</i> This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana, which generally ranged in length from 100 to 400 feet, over various-sized rivers and creeks. Ms. Bourgeois leads technical reviews about the selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses, construction testing program recommendations, and report preparation in accordance with LADOTD guidelines.
02/20-Present	SP NO. H.004791 / DESIGN SUPPORT SERVICES LA 23, BELLE CHASSE BRIDGE & TUNNEL: Plaquemine Parish, LA <i>Project Engineer/Laboratory Director.</i> Ardaman's scope consists of review and acceptance of all geotechnical services, including technical design reports, field documentation, drawings, and RFI's for the P3 Project, consisting of replacing the Belle Chasse bridge and tunnel. In addition, Ardaman performs acceptance verification sampling and testing during the construction of soils and concrete. Ms. Bourgeois assisted in the review and acceptance of geotechnical services, as well as quality control and review of all acceptance verification, sampling, and testing during construction.
07/15-Present	SP NO. H.004273.5 / I-49 CONNECTOR (LAFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE): Lafayette Parish, LA <i>Project Engineer.</i> Assisting the Program Manager in overseeing the geotechnical investigation and design of the 5 miles of freeway consisting of a 3.5-mile elevated structure that will include pile-supported approach slabs, pile foundations, slope stability, embankment settlement, pavement design, advanced pile load test programs, and earth retaining structures. Overseeing laboratory program, which will include a total of more than 400 borings, including deep borings, shallow borings, and CPT soundings. Ms. Bourgeois is the project lead for developing the Geotechnical Investigation and Design Report.
10/09-Present	SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW: Vicksburg, MS <i>Project Manager.</i> Ms. Bourgeois manages this multi-million-dollar, highly technical project consisting of investigating the movement of the I-20 Bridge in Vicksburg, MS. She managed a highly technical team, including academia, experts, including internationally recognized geotechnical engineers, geohydrologists, instrumentation specialists, and 3-D geotechnical modeling experts. She managed and personally oversaw a comprehensive laboratory testing program and was involved in refining the geotechnical site characterization for the bank/bluff, where there was evidence of shifting, creating movement in the bridge structure. The specialized testing, which she personally performed or managed, included x-ray diffraction, x-ray scanning to identify existing shearing planes, and stress-reversal direct shear tests to determine true residual angles of critical strata. She was instrumental in designing the geotechnical instrumentation program for this project, including vibrating wire piezometers, Casagrande-type piezometers, SAA inclinometers, and traditional inclinometers. In addition, Ms. Bourgeois performed seepage and drawdown analyses, slope stability analyses, evaluation of remedial measures, including design and evaluation of large foundation structures, and developed technically feasible solutions to mitigate ground movement. She co-authored the geotechnical analysis and design report. She is currently overseeing the comprehensive monitoring program.

Firm employed by: Ardaman & Associates, Inc.



Name	Robert Jewell, PE		Years of relevant experience with this employer	19	
Title	Project Engineer / Branch Manager		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS / 2009 / Civil Engineering		
Active registration number/state/expiration date			PE. 38579 / Louisiana / 09-30-2026 Traffic Control Supervisor / Louisiana / 08-23-2028 DOTD Flagger / Louisiana / 07-31-2029		
Year registered	2013	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Project Engineer		
Mr. Jewell serves as the branch manager of our Baton Rouge office and has over 19 years of experience with design and analysis of countless types of foundations, including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA & GEC design, slope stability (embankment and excavation), and earth retaining structures. He has managed and coordinated many geotechnical field investigations, including shallow and deep borings, CPT soundings, and performed analyses and prepared design recommendation reports for LADOTD projects. Mr. Jewell has extensive experience in construction phase testing and oversight, including dynamic and static testing, pile integrity testing, cross-hole sonic logging, settlement monitoring, and geotechnical instrumentation. In particular, he has over 15 years of experience performing, analyzing, and reporting for PDA testing.					
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
07/23- Present	SP NO. H.013284 / MRB SOUTH GBRL: LA 1 TO LA 30 CONNECTOR: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA <i>Project Manager.</i> The project consists of an Enhanced Planning investigation into S.P. No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, to construct a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments. Mr. Jewell managed supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile all the soil borings and ECPT. He helped oversee the preliminary engineering analyses, which included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations. A data report and preliminary geotechnical assessment report were submitted.				
07/21- Present	SP NO. H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR): Baton Rouge Parish, LA <i>Project Manager.</i> The project consists of a Construction Management at Risk (CMAR) project, which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish, spanning approximately 2.5 miles. Mr. Jewell currently oversees all aspects of engineering analyses pertaining to the selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures, and load testing recommendations. Mr. Jewell helped develop the Geotechnical Data reports, memorandums, and Design reports for this project.				
06/20-06/21	NICHOLSON DRIVE (LA HWY 30) SEGMENT 1: East Baton Rouge Parish, LA				

	<i>Project Engineer.</i> This project consisted of the reconstruction and widening of a section of Nicholson Drive between the intersections of Brightside Lane and Burbank Drive for the MOVEBR Program. Thirteen shallow soil borings and two deep soil borings were drilled at the subject site, and associated laboratory testing was performed. Engineering analyses included pavement and culvert crossing design recommendations in accordance with LADOTD specifications.
11/21- Present	SP NO. H.012030 / US 371: KCS RAILROAD OVERPASSES HBI: Webster Parish, LA <i>Project Manager.</i> The project consists of the construction of three bridges for the US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Ardaman performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.
04/21- Present	SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / RURAL BRIDGE INITIATIVE PHASE II: West Feliciana, East Feliciana, Livingston, and St. Bernard Parishes, LA <i>Project Manager.</i> The project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana, which generally range in length from 100 to 400 feet, mainly over small rivers and creeks. Mr. Jewell oversees all aspects of engineering analyses about the selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses, and construction testing program recommendations.
10/18-11/21	SP NO. H.003370 / I-220 / I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIR FORCE BASE ACCESS ROAD: Bossier Parish, LA <i>Project Manager.</i> This was a Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructed an interchange and access road from Interstate 20 in Bossier City, Louisiana. Mr. Jewell managed and oversaw the preparation of the preliminary design and planning report. Mr. Jewell also oversaw the field construction services consisting of PDA monitoring, bi-directional load cell load tests, and settlement monitoring. The PDA program consisted of monitoring PPC piles during initial drive and restrikes to allow for evaluation of setup and early acceptance of pile resistances.
10/15-10/21	SP NO. H.013579 / PECUE LANE I-10 INTERCHANGE: East Baton Rouge Parish, LA <i>Project Engineer.</i> This project consists of twin bridges with MSE wall abutments for both bridges crossing Interstate I-10, a bridge crossing Ward's Creek, and on/off-ramps in south Baton Rouge. Mr. Jewell helped perform analyses, including settlement estimates with recommendations for monitoring, driven pile and drilled shaft design, including down drag considerations, MSE Wall design, slope stability, and pavement section recommendations; all completed according to DOTD standards. Mr. Jewell is currently overseeing the construction phase, which includes PDA monitoring, static load testing, and settlement monitoring.

Firm employed by: Ardaman & Associates, Inc.					
Name	Robert Rousset, PE		Years of relevant experience with this employer	20	
Title	Vice President / Regional Manager		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS / 2008 / Civil Engineering		
Active registration number/state/expiration date			PE. 38637 / Louisiana / 09-30-2026		
Year registered	2014	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Project Engineer		
					
Mr. Rousset serves as the regional manager of Ardaman's New Orleans office and has over 20 years of experience with design and analysis of countless types of foundations, including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), slope stability (embankment and excavation), and earth retaining structures. He has managed and coordinated many geotechnical field investigations, including shallow and deep borings, CPT soundings, and performed analyses and prepared design recommendation reports for LADOTD projects. Mr. Rousset has extensive experience in construction phase testing and oversight, including dynamic and static testing.					
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).				
05/21- Present	SP NO. H.014217, H.014218, H.014225, H.014228, H.014233, H.014236 / RURAL BRIDGE REPLACEMENT INITIATIVE PHASE II: West Feliciana, East Feliciana, Livingston, and St. Bernard Parishes, LA <i>Project Engineer.</i> The Rural Bridges project initiative consists of replacing many older bridges throughout the State of Louisiana. The scope of the proposed bridge replacement project involves demolishing and replacing the existing bridges. Ardaman performed geotechnical analyses to support foundation designs provided in a report based on the AASHTO LRFD Bridge Design Specifications, the LADOTD Bridge Design Technical Memoranda, and the Louisiana Standard Specifications for Roads and Bridges (LSSRB).				
08/20- Present	SP NO. H.013942, H.013948, H.013979, H.013985, H.013987, H.013988 / RURAL BRIDGES REPLACEMENT INITIATIVE: Avoyelles and Webster Parishes, LA <i>Project Engineer.</i> This project consists of the replacement of multiple small rural bridges throughout Central and North Louisiana. Mr. Rousset oversaw the field investigation, laboratory testing program, and engineering analyses for the project. Engineering analyses consisted of axial pile capacities, pile drivability, settlement, and slope stability analyses, and reporting in accordance with LADOTD guidelines.				
03/19-07/20	SP NO. H.004100.5-2 / I-10 WIDENING (LA415 TO HOWARD ST): East Baton Rouge Parish, LA <i>Project Engineer.</i> The project consists of the widening of the East and Westbound lanes, elevated structures, and construction of an interchange and ramps on the Westbound lanes along I-10 between LA 415 and Howard Street, spanning approximately 1 mile. Mr. Rousset helped oversee the geotechnical fieldwork portion of this project, which included 58 deep borings and 11 cone penetrometer (CPT) soundings.				
07/16- Present	SP NO. H.011152 / I-12 WIDENING (US 190 TO LA 59): St. Tammany Parish, LA				

	<i>Project Manager.</i> Mr. Rousset managed this project, which included the widening of Interstate 12 in St. Tammany Parish. Ardaman conducted a geotechnical investigation, which included 23 deep soil borings, sampling, and laboratory testing along the 3-mile alignment between US 190 and LA 59 for lane widening, which included four bridge structures. The field investigation, conducted in accordance with LADOTD specifications, included field reconnaissance, including determining access and gaining rights of entry, completing utility locations, locating/staking boring locations, and developing a plan for the initial mobilization of equipment to the site and mobilization between sites. Soil boring logs were created in LADOTD format. Engineering analyses for a retaining wall for one of the bridge abutments were conducted.
05/12-03/13	SP NO. H.002260.5 / GOOSE BAYOU BRIDGE ROUTE LA 45: Lafitte, LA <i>Assistant Project Engineer.</i> Mr. Rousset managed the geotechnical field investigation for the bridge that included drilling and laboratory testing of 2 deep soil borings and 4 CPT soundings performed with barge-mounted drilling equipment under difficult access conditions. He assisted with providing final soil boring logs and CPT sounding logs in LADOTD format.
2015-Present	HOUMA NAVIGATIONAL CANAL LOCK COMPLEX, Terrebonne Parish, LA <i>Project Manager.</i> Mr. Rousset was project manager during the completed 15% design phase and currently during the ongoing 60% design phase and pile load test program. Mr. Rousset is managing the review of existing geotechnical data and implementation of a phased approach to conduct the field investigation to obtain additional subsurface data, while maintaining the aggressive project schedule. He is also overseeing laboratory testing conducted on the soil borings obtained during the field investigation, the geotechnical engineering analyses, development of conclusions and recommendations, and final report preparation.
10/18-01/19	SP NO. H.003370 / I-220 / I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIR FORCE BASE ACCESS ROAD: Bossier Parish, LA <i>Project Engineer.</i> Mr. Rousset assisted in planning and coordinating the installation of automated settlement monitoring instrumentation. Also assisted in preliminary design and planning report for this Design Build project, which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructs an interchange and access road from Interstate 20 in Bossier City, Louisiana.
12/18- Present	MID-BARATARIA SEDIMENT DIVERSION CMAR: Plaquemines Parish, LA, BA-153 <i>Project Manager.</i> Mr. Rousset serves in the role of Project Manager for this CMAR project that includes the construction of a new Sediment Diversion Structure located in Plaquemines Parish, Louisiana, along the west bank of the Mississippi River, just north of Ironton and south of the Phillips 66 Alliance Refinery, near Mississippi River Mile 61. Ardaman will work together with the selected CMAR contractor, Archer Western – Alberici, to provide investigations, laboratory testing, instrumentation installations, and geotechnical engineering consulting services during the design and construction phases of this project. The diversion structure will include an intake structure and a new highway. 23 bridge over the diversion, guide levee system, and outfall transition feature.

Firm employed by: Ardaman & Associates, Inc.



Name	Ross McGillivray, PE	Years of relevant experience with this employer	29
Title	Principal Engineer	Years of relevant experience with other employer(s)	29
Degree(s) / Years / Specialization	MS / 1968 / Civil Engineering (Soil Mechanics) BCE / 1966 / Civil Engineering		
Active registration number/state/expiration date	PE. 17920 / Florida / 02-28-2027		
Year registered	1998	Discipline	Civil
Contract role(s) / brief description of responsibilities	Principal Engineer		



Mr. McGillivray, a principal engineer at Ardaman's Tampa office, provides technical review and consultation on multiple types of foundations, including building and bridge foundations, geotechnical and materials engineering for port facilities, pavement systems, earth structures, surface mining, groundwater hydrology, and sinkhole evaluation and remediation. He has supported projects across Ardaman's Florida, Baton Rouge, and New Orleans offices, including multiple LADOTD projects. From 1968 to 1970, he managed MIT's soil mechanics lab and researched soil and industrial waste behavior. At Lambe & Associates, he worked on soil stability and anchor capacity for Caracas's Parque Central retaining wall and helped develop a permafrost and soil mechanics lab in Anchorage. In 1975, he founded ARMAC Engineers, focusing on foundations, sinkhole remediation, mine slope stability, and earthen dams. He joined Ardaman in 1996 as a Senior Engineer, contributing to mining and foundation projects

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).
07/23-Present	SP NO. H.013284 / MRB SOUTH GBRL: LA 1 TO LA 30 CONNECTOR: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA <i>Principal Engineer.</i> The project consisted of an Enhanced Planning investigation into S.P. No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, to construct a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments. Mr. McGillivray reviewed all design aspects of this project, including caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations.
07/21-Present	SP NO. H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR): Baton Rouge Parish, LA <i>Project Engineer.</i> The project consists of a Construction Management at Risk (CMAR) project, which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish, spanning approximately 2.5 miles. Mr. McGillivray reviewed all design aspects of this project, including pile and drilled shaft foundations, detailed soil structure interactions with existing bridges, bi-directional O-cell tests oversight, review, and redesign, and reporting.
09/20-12/25	SP NO. H.013897 / COLLEGE DR FLYOVER RAMP I-10 / I-12: Baton Rouge Parish, LA <i>Principal Engineer.</i> Mr. McGillivray assisted with review and acceptance of all geotechnical services, including technical design reports, field documentation, drawings, and RFI's for the construction of a flyover ramp on I-10
02/20-Present	SP NO. H.004791 / DESIGN SUPPORT SERVICES LA 23 BELLE CHASSE BRIDGE AND TUNNEL: Plaquemine Parish, LA

	<i>Principal Engineer.</i> Mr. McGillivray assisted with review and acceptance of all geotechnical services, including technical design reports, field documentation, drawings, and RFI's for the P3 Project, consisting of replacing the Belle Chasse bridge and tunnel
10/18-11/21	SP NO. H.003370 / I-220/I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIR FORCE BASE ACCESS ROAD: Bossier Parish, LA <i>Principal Engineer.</i> This was a Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructed an interchange and access road from Interstate 20 in Bossier City, Louisiana. Mr. McGillivray helped review and perform analyses of the drilled shaft bi-directional O-cell tests.
11/15-Present	SP NO. H.011309 / MACARTHUR INTERCHANGE COMPLETION PHASE II ROUTE US 90-Z: Jefferson Parish, LA <i>Principal Engineer.</i> Mr. McGillivray reviewed and evaluated the capacity of tip-grouted Drilled Shafts utilizing Cone Penetrating Test (CPT) sounding data for Phase II of the MacArthur Interchange, consisting of construction ramps entering and exiting the Westbank Expressway.
06/09-02/10	SR 686 OVERPASS BRIDGE: St. Petersburg, FL <i>Principal Engineer.</i> The SR 686 Overpass Bridge, 1,500 feet long, crosses a solid waste landfill lined with a slurry wall and in-situ clay. The original foundation design used 24-inch prestressed concrete piles inside 36-inch steel casings, grouted in place. Mr. McGillivray evaluated alternatives and proposed non-redundant drilled shafts to minimize penetrations of the clay liner. The final design included 36-, 48-, and 60-inch drilled shafts. Two Osterberg Cell load tests with 2-inch Styrofoam toes measured skin friction above and below the cell. Ardaman conducted pilot borings and inspected all drilled shaft installations.
05/05-11/05	I-10 BRIDGES OVER ESCAMBIA BAY: Pensacola, FL <i>Principal Engineer.</i> The I-10 bridge over Escambia Bay, damaged by Hurricane Ivan in 2004, consisted of two 2.6-mile, three-lane bridges with 103 spans each. Mr. McGillivray, PE, served as Lead Geotechnical Engineer for the replacement foundation design. This was Florida's first use of 36-inch voided prestressed concrete piles since 1972. Driving criteria were set for two pile hammers with 150 kip-ft energy but differing ram weights (30 and 60 kips). Wave Equation Analyses and PDA/CAPWAP showed that the lighter ram hammer was marginal for production piling installation. Vertical and lateral load tests correlated well with static capacity and PDA/CAPWAP analyses, with lateral load results requiring soil strengths from Cone Penetrating Tests for accurate modeling.
09/01-11/01	SP NO. 450-10-0113 & 454-01-0064 / I-10/I-12 SOUND WALLS, WALL 6-DESIGN LATERAL LOAD TEST ON DRILLED SHAFTS / SOUND WALL SHAFT CLS EVALUATION: Baton Rouge, LA <i>Principal Engineer.</i> Mr. McGillivray performed a re-design for the drilled shafts supporting the I-10/I-12 sound wall system in Baton Rouge, LA, and performed an instrumented lateral load performance on a 48-inch diameter drilled shaft. The results of the load test compared analyses performed with Standard Penetration Test Boring Data to analyses performed with Cone Penetrating Test (CPT) sounding data. Mr. McGillivray also evaluated the results of Cross-Hole Sonic Log (CSL) tests on installed drilled shafts and developed repair procedures when drilled shafts were shown to have CSL detected flaws. The repair procedures were accepted by LADOTD for the project.

Firm employed by: Ardaman & Associates, Inc.



Name	Jarmon King, PE		Years of relevant experience with this employer	19
Title	Project Engineer		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			BS / 2019 /Civil Engineering Traffic Control Supervisor / Louisiana / 11-08-2027 DOTD Flagger / Louisiana / 05-29-2028	
Active registration number/state/expiration date			PE. 49179 / Louisiana / 03-31-2027	
Year registered	2024	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Project Engineer	



Mr. King serves as a project engineer at Ardaman in the Baton Rouge office with over 8 years of experience. Mr. King is involved with overseeing and conducting geotechnical investigations. Mr. King also prepares soil boring logs; processes and analyzes Cone Penetration Test (CPT) sounding design and analyses of multiple types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), LRFD design, FHWA & GEC design, slope stability (embankment and excavation) and earth retaining structures. Mr. King has experience in overseeing and performing Pile Driving Analyzer (PDA) testing during the construction phase of projects.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/23-Present	SP NO. H.013284 / MRB SOUTH GBRL: LA 1 TO LA 30 CONNECTOR: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA <i>Project Engineer.</i> The project consists of an Enhanced Planning investigation into S.P. No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments. Mr. King helped oversee the field program, development of the laboratory testing program, development of an interactive geotechnical database to compile all the soil borings and ECPT. He helped perform the preliminary engineering analyses included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations. Mr. King assisted in preparation of the Data and Design reports for this project.			
07/21-Present	SP NO. H.004100.5 / I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR): Baton Rouge Parish, LA <i>Project Engineer.</i> The project consists of a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles. Mr. King co-manages and oversees the engineering analyses pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. Mr. King helped develop the Geotechnical Data reports, memorandums, and Design reports for this project.			
04/21-Present	SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / RURAL BRIDGE INITIATIVE PHASE II: West Feliciana, East Feliciana, Livingston, and St. Bernard Parishes, LA <i>Assistant Project Engineer.</i> This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers and creeks. Mr. King			

	assisted in engineering design pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses, construction testing program recommendations, and report preparation in accordance with LADOTD guidelines.
11/21-Present	SP NO. H.012030 / US 371: KCS RAILROAD OVERPASSES HBI: Webster Parish, LA <i>Assistant Project Engineer.</i> The project consists of the construction of three bridges for the US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Ardaman performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.
07/21-01/22	SP NO. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA <i>Assistant Project Engineer.</i> Assisted with all aspects of this project about the coordination of fieldwork, including 37 deep soil borings, 39 ECPTs, and 13 electrical resistivity (ER) geophysical survey transects. Most of the soil borings were completed from a barge, some over a considerable amount of water. Some soil borings were completed from a marsh buggy over shallow water and thick marsh grass. He also assisted with the laboratory testing program, processing and analyzing the ECPT and ER data, developing a geotechnical database, and preparing and submitting a geotechnical data report. This project consisted of obtaining preliminary geotechnical data under an extremely strict deadline to be used in the design phase of a project that will consist of replacing the existing I-10 Calcasieu River Bridge with a new structure and improvements to various other interchanges.
06/20-06/21	SP NO. H.002825 / NICHOLSON DRIVE (LA HWY 30) SEGMENT 1: East Baton Rouge Parish, LA <i>Assistant Project Engineer.</i> This project consisted of the reconstruction and widening of a section of Nicholson Drive between the intersections of Brightside Lane and Burbank Drive for the MOVEBR Program. Thirteen shallow soil borings and two deep soil borings were drilled at the subject site, and associated laboratory testing was performed. Mr. King oversaw the field investigation and engineering analyses, which included pavement and culvert crossing design recommendations in accordance with LADOTD specifications.
10/18-06/21	SP NO. H.000263 / CHEF MENTEUR PASS BRIDGE & APPROACH: Orleans Parish, LA <i>Assistant Project Engineer.</i> Helped produce soil boring logs and CPT soundings in LADOTD format. Assisted with the development of the data report.
10/18-11/21	SP NO. H.003370 / I-220 / I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIR FORCE BASE ACCESS ROAD: Bossier Parish, LA <i>Assistant Project Engineer.</i> This was a Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructed an interchange and access road from Interstate 20 in Bossier City, Louisiana. Mr. King assisted with the construction monitoring aspect of the project, which included PDA testing and CAPWAP analyses.
03/25-Present	SP NOs. H.016313.5, H.016314.5, H.016315.5, H.016316.5, H.016317.5, H.016318.5, H.016319.5, H.016320.5, H.016325.5 / CULVERT REPLACEMENTS: Rapides, Richland, Vernon, Winn, Evangeline, Jackson, and St. Landry Parishes, LA <i>Project Engineer.</i> The project consisted of geotechnical field investigations throughout Louisiana, consisting of ten soil borings to depths ranging from 100 to 120 feet, associated laboratory testing, and reporting for new box culvert structures. Mr. King helped produce soil boring logs and CPT soundings in LADOTD format and developed the data reports.

Firm employed by: Ardaman & Associates, Inc.



Name	Jessica N. Litt	Years of relevant experience with this employer	12
Title	Laboratory Manager	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS / 2010 / Biology		
Active registration number/state/expiration date	NICET / Generalist, Laboratory No. 141243 / 10-01-2027		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Laboratory Manager		



Ms. Litt serves as Laboratory Manager of Ardaman's Baton Rouge laboratory, which is under the direction of a Registered Professional Engineer. She supervises and manages operations of our AMRL Certified, DEQ Accredited, and USACE-validated laboratory and performs and oversees laboratory testing assignments, organizes and schedules testing, trains and develops technicians, and supervises five laboratory technicians. Ms. Litt is experienced conducting soil mechanics laboratory testing in accordance with appropriate AASHTO and LADOTD testing protocol, which includes Soil Classification, Atterberg Limits, Grain Size Analysis, Gradation Testing, Organic Content, Hydrometer Analysis, Moisture Content, Consolidation Testing, Hydraulic Conductivity, pH, Resistivity, Strength Testing (Unconfined, Unconsolidated-Undrained Triaxial, Consolidated-Undrained Triaxial), Direct Shear, Specific Gravity, and Permeability of Granular Soils.

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).
03/25-Present	SP NOs. H.016313.5, H.016314.5, H.016315.5, H.016316.5, H.016317.5, H.016318.5, H.016319.5, H.016320.5, H.016325.5 / CULVERT REPLACEMENTS: Evangeline, Jackson, Rapides, Richland, St. Landry, Vernon, and Winn Parishes, LA <i>Laboratory Manager. Oversaw the completion of a comprehensive laboratory testing program for 100 deep soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Organic Content, Particle Size Analysis, Hydrometer, Unit Weight of Undisturbed Samples, and UU Strength Tests in accordance with LADOTD guidelines. Ms. Litt entered the laboratory test results into gINT to produce the LADOTD soil boring logs.</i>
08/24-Present	SP NOs. H.015568.5, H.015569 / LA 44 ROUNDABOUTS & WIDENING: Ascension Parish, LA <i>Laboratory Manager. Oversaw the completion of a comprehensive laboratory testing program for 10 deep and 14 shallow soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests in accordance with LADOTD guidelines. Ms. Litt entered the laboratory test results into gINT to produce the LADOTD soil boring logs.</i>
07/23-Present	SP NO. H.013284 / MRB SOUTH GBR LA 1 TO LA 30 CONNECTOR: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA <i>Laboratory Manager. Oversaw the completion of a comprehensive laboratory testing program for 18 deep soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests in accordance with LADOTD guidelines. Ms. Litt reviewed the consolidation test results and entered the laboratory test results into gINT in order to produce the LADOTD soil boring logs.</i>

07/23-Present	SP NOs. H.015489, H.015490, H.015491, H.015492 / IIJA: OFF-SYSTEM BRIDGES: Allen, Beauregard, and Calcasieu Parishes, LA <i>Laboratory Manager.</i> Oversaw the completion of a comprehensive laboratory testing program for 10 deep soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests in accordance with LADOTD guidelines. Ms. Litt entered the laboratory test results into gINT to produce the LADOTD soil boring logs.
11/21-Present	SP NO. H.012030 / US 371: KCS RAILROAD OVERPASSES HBI: Webster Parish, LA <i>Laboratory Manager.</i> The project consists of the construction of three bridges for the US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Ardaman performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.
10/18-06/21	SP NO. H.000263.5-1 / CHEF MENTEUR PASS BRIDGE AND APPROACH: Orleans Parish, LA <i>Laboratory Technician.</i> Assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.
09/22-12/25	EVANGELINE ROAD & CN RAILROAD CULVERT: St. Charles Parish, LA <i>Laboratory Technician.</i> Ardaman completed subsurface exploration and geotechnical engineering evaluation. The project consists of the installation of two reinforced concrete box culverts (RCBCs) on the north and south sides of the CN Railroad as it crosses over Evangeline Road near Montz, Louisiana, in St. Charles Parish. Ardaman performed the geotechnical fieldwork and engineering evaluation, including recommendations for site preparation, shoring and bedding recommendations, and pavement design in a final report.
11/15-01/21	SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / MACARTHUR INTERCHANGE COMPLETION PHASE 2, ROUTE US 90-Z: Jefferson Parish, LA <i>Laboratory Technician.</i> Assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content and Visual Classification, Fines Content, Sieve Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.
04/14-03/22	SP NO. H.004435 / I-12 TO BUSH SEGMENT 2, LA 3241: St. Tammany Parish, LA <i>Laboratory Technician.</i> Assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.
10/09-Present	SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW: Vicksburg, MS <i>Laboratory Manager.</i> Assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.

Firm employed by: Ardaman & Associates, Inc.



Name	Casey Floyd	Years of relevant experience with this employer	5
Title	Drilling Supervisor	Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization	High School Diploma		
Active registration number/state/expiration date	Traffic Control Technician / Louisiana / 9-5-2027 Traffic Control Supervisor / Louisiana / 9-6-2027 DOTD Flagger / Louisiana / 6-04-2028 Louisiana Water Well Driller's License #WWC-212, 6-30-2026		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	Drilling Supervisor		



Mr. Floyd has over 30 years of experience drilling in the Louisiana Gulf Coast Region, including performing soil borings (on land and over water), CPT soundings, monitor well installation and abandonment, and installation of geotechnical monitoring instrumentation. Mr. Floyd has planned and supervised many LADOTD geotechnical investigation projects. He has arranged right of entry, utility locations, site clearing, arranged for police assistance (if needed) and traffic control/crew safety, and coordinated between engineering staff and drill crew. He has also completed a multitude of LADOTD projects consisting of shallow borings and deep soil borings to depths of approximately 300 feet.

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).
03/25-Present	SP NOs. H.016313.5, H.016314.5, H.016315.5, H.016316.5, H.016317.5, H.016318.5, H.016319.5, H.016320.5, H.016325.5 / CULVERT REPLACEMENTS: Evangeline, Jackson, Rapides, Richland, St. Landry, Vernon, and Winn Parishes, LA <i>Drilling Supervisor.</i> The project consisted of geotechnical field investigations throughout Louisiana, consisting of ten soil borings to depths ranging from 100 to 120 feet. Mr. Floyd oversaw the field investigation program consisting of 10 deep soil borings in accordance with LADOTD guidelines. He performed site reconnaissance at each location and coordinated the access along with traffic control.
08/24-Present	SP NOs. H.015568.5, H.015569 / LA 44 ROUNDABOUTS & WIDENING: Ascension Parish, LA <i>Drilling Supervisor.</i> Mr. Floyd oversaw the field investigation program consisting of 10 deep and 14 shallow soil borings in accordance with LADOTD guidelines. He performed site reconnaissance, coordinated the access along with traffic control, and pavement coring.
07/23-Present	SP NOs. H.015489, H.015490, H.015491, H.015492 / IJA: OFF-SYSTEM BRIDGES: Allen, Beauregard, and Calcasieu Parishes, LA <i>Drilling Supervisor.</i> Mr. Floyd oversaw the field investigation program consisting of 10 deep soil borings in accordance with LADOTD guidelines. He performed site reconnaissance, coordinated the access along with traffic control, and pavement coring.
03/22-01/25	SP NO. H.002244.5 / BOUDREAUX CANAL BRIDGE REPLACEMENT: Terrebonne Parish, LA <i>Drilling Supervisor.</i> The project consisted of the replacement of the existing LA 56: Boudreaux Canal Bridge with a new bridge just west of the center line of the existing bridge. Mr. Floyd oversaw the field investigation program consisting of 8 deep soil borings and 4 CPT soundings in accordance with LADOTD guidelines. He performed site reconnaissance, coordinated the

	access along with traffic control, and pavement coring. Mr. Floyd oversaw the completion of one of the soil borings that was performed on a barge.
07/21-01/22	SP NO. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA <i>Drilling Crew Chief.</i> Mr. Floyd helped manage and oversee all aspects of an extensive field investigation program, which included 37 deep soil borings and 39 CPT soundings in accordance with LADOTD guidelines. Most of the soil borings were completed from a barge, some over a considerable amount of water. Some soil borings were completed from a marsh buggy over shallow water and thick marsh grass.
04/21-Present	SP NOs. 700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257 / RURAL BRIDGE INITIATIVE PHASE II: West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA <i>Drilling Crew Chief.</i> This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana, which generally ranged in length from 100 to 400 feet, mainly over small rivers and creeks. Mr. Floyd oversaw all aspects of this project, including the coordination of fieldwork, including 31 deep soil borings. Some of these borings were performed through the middle of bridges and at hard access locations.
03/19-07/20	SP NO. H.004100.5-2 / I-10 WIDENING (LA 415 TO HOWARD ST): East Baton Rouge Parish, LA <i>Drilling Crew Chief.</i> Mr. Floyd helped oversee the field investigation, which included 58 deep borings and 11 cone penetrometer (CPT) soundings in accordance with LADOTD guidelines, and electrical resistivity imaging along the entire alignment for the widening of the I-10 project. He performed site reconnaissance at each location and coordinated the access along with traffic control.
10/18-06/21	SP NO. H.000263.5-1 / CHEF MENTEUR PASS BRIDGE & APPROACH: Orleans Parish, LA <i>Drilling Crew Chief.</i> Mr. Floyd helped manage and oversee all aspects of an extensive field investigation program, which included 37 deep soil borings in accordance with LADOTD guidelines, including borings over 200 feet in over 80 feet of high-flow water.
07/15-Present	SP NO. H.004273.5 / I-49 CONNECTOR (LAFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE): Lafayette Parish, LA <i>Drilling Supervisor.</i> The project consists of the construction of 5 miles of freeway, consisting of a 3.5-mile elevated structure from I-10 to the Airport in Lafayette, LA. Mr. Floyd managed and oversaw the completion of the Phase 2 Kaliste-Saloom Interchange field investigation program, which included 26 deep soil borings and 10 CPT soundings in accordance with LADOTD guidelines. He performed site reconnaissance, coordinated the access along with traffic control, and pavement coring.
10/09-Present	SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW: Vicksburg, MS <i>Drilling Supervisor.</i> Mr. Floyd has performed and supervised all aspects of field operations associated with this multi-million-dollar, high-technical needs project consisting of investigating the movement of the I-20 Bridge in Vicksburg, Mississippi. Ardaman managed a comprehensive laboratory testing program and refined a geotechnical site characterization for the bank/bluff, where there was evidence of shifting, creating movement in the bridge structure. To allow for this advanced testing program, it was imperative to obtain high-quality undisturbed soil samples in difficult drilling conditions. Mr. Floyd was instrumental in completing these tasks as well as installing all types of instrumentation to maintain a highly extensive automated monitoring program at the site, including vibrating wire piezometers, SAA inclinometers, and traditional inclinometers.

Firm employed by: Ardaman & Associates, Inc.					
Name	Chae Hrenyk		Years of relevant experience with this employer	18	
Title	Construction Materials Testing Manager		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			N/A		
Active registration number/state/expiration date			Certified NHI Drilled Shaft Inspector		
Year registered	N/A	Discipline	N/A		
Contract role(s) / brief description of responsibilities			Construction Testing Technician Supervisor		
Mr. Hrenyk is the Construction Materials Testing (CMT) Manager in the Baton Rouge office with 18 years of field and laboratory experience. He has performed construction materials testing, QA inspections, and pile monitoring, including PDA, pile logging, and vibration monitoring, as well as drilled shaft construction inspection. He is skilled in geotechnical instrumentation installation and monitoring, field resistivity imaging, and conducting field testing. Mr. Hrenyk trains and supervises all field technicians and serves as client coordinator, communicating field data to clients and engineers. He is certified in drilled shaft installation inspection and experienced with LADOTD project testing and data submission. Additionally, he manages CMT Laboratory certifications, equipment maintenance, technician training, documentation, and agency inspections under AMRL, CCRL, USACE, and LDEQ standards.					
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).				
03/25-Present	SP NOs. H.016313.5, H.016314.5, H.016315.5, H.016316.5, H.016317.5, H.016318.5, H.016319.5, H.016320.5, H.016325.5 / CULVERT REPLACEMENTS: Rapides, Richland, Vernon, Winn, Evangeline, Jackson, St. Landry Parishes, LA <i>CMT Laboratory Manager.</i> The project consisted of geotechnical field investigations throughout Louisiana, consisting of ten soil borings to depths ranging from 100 to 120 feet, associated laboratory testing, and reporting for new box culvert structures. Mr. Hrenyk assisted with overseeing the laboratory testing program in accordance with LADOTD guidelines.				
03/24-Present	FACILITY PLANNING AND CONTROL/LSU NEW SCIENCE COMPLEX: East Baton Rouge, LA <i>CMT Manager.</i> The project consists of the construction of a new science building at LSU. Mr. Hrenyk oversaw and managed all of Ardaman’s scope of work, which includes soil and concrete inspection and testing, rebar inspection, auger cast-in-place installation and load testing program, and an overview of welding inspections.				
07/21-01/22	SP NO. H.003931 / I-10 CALCASIEU RIVER BRIDGE: Calcasieu Parish, LA <i>Senior Field Technician.</i> Ardaman’s scope of work consisted of coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 electrical resistivity (ER) geophysical survey transects. This project consisted of obtaining preliminary geotechnical data under an extremely strict deadline to be used in the design phase of a project that will consist of replacing the existing I-10 Calcasieu River Bridge with a new structure and improvements to I-10 near the I-210 interchange and various other interchanges including entrances, exits and service roads. Mr. Hrenyk assisted in completing the ER surveys.				
09/20-Present	SP NO. H.013897 / COLLEGE DR FLYOVER RAMP I-10 / I-12: Baton Rouge Parish, LA <i>CMT Laboratory Manager.</i> Ardaman’s scope consists of review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI’s for the construction of a flyover ramp on I-10. In addition, Ardaman				

	performs acceptance verification sampling and testing during the construction for soils and concrete. Mr. Hrenyk assisted in review of all acceptance verification sampling and testing during construction and oversaw the input of the data results into LIMS as required by LADOTD.
10/18-06/21	SP NO. H.000263 / CHEF MENTEUR PASS BRIDGE & APPROACH: Orleans Parish, LA <i>Senior Field Technician.</i> Ardaman's scope of work for this project consisted of an extensive field investigation program which included 37 deep soil borings, including borings over 200 feet in over 80 feet deep flow water, a laboratory testing program to provide geotechnical characterization data for use in design of deep foundations and embankments, an electrical resistivity (ER) geophysical survey transects testing program, and a data report. Mr. Hrenyk assisted with completion of the ER surveys.
10/18-11/21	SP NO. H.003370 / I-220 / I-20 INTERCHANGE IMPROVEMENT AND BARKSDALE AIR FORCE BASE ACCESS ROAD: Bossier Parish, LA <i>Construction Monitoring Inspector.</i> Mr. Hrenyk helped oversee the installation of driven piles, drilled shafts and helped perform PDA testing and static load tests. He oversaw large diameter drilled shaft installation and bi-directional O-cell testing.
06/18-Present	SP NO. H.004791 / DESIGN SUPPORT SERVICES LA 23 BELLE CHASSE BRIDGE AND TUNNEL: Plaquemine Parish, LA <i>CMT Laboratory Manager.</i> Ardaman's scope consists of review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's for the P3 Project consisting of replacing the Belle Chasse bridge and tunnel. In addition, Ardaman performs acceptance verification sampling and testing during the construction for soils and concrete. Mr. Hrenyk assisted in review of all acceptance verification sampling and testing during construction and oversaw the input of the data results into LIMS as required by LADOTD.
10/15-Present	SP NO. H.013579 / PECUE LANE I-10 INTERCHANGE: East Baton Rouge Parish, LA <i>Construction Monitoring Inspector.</i> Assisted in performing PDA testing and pile logging for the pre-cast pre-stressed concrete (PCC) piles and steel pipe piles driven for the I-10 Interchange bridge.
10/09-Present	SP NO. H.004646.5 / I-20 MISSISSIPPI RIVER BRIDGE REVIEW: Vicksburg, MS <i>Senior Field Technician.</i> Mr. Hrenyk assisted with many aspects of this multi-million-dollar, highly technical project consisting of investigating the movement of the I-20 Bridge in Vicksburg, Mississippi. Ardaman managed a comprehensive laboratory testing program and refined a geotechnical site characterization for the bank/bluff where there was evidence of shifting creating movement in the bridge structure. He was instrumental in designing and installing the geotechnical instrumentation for this project including vibrating wire piezometers, Casagrande type piezometers, In-place inclinometers, SAA inclinometers, and traditional inclinometers. Currently, he is assisting with a phase of the project that includes upgrading the entire instrumentation communication system and will be monitoring this system continuously.
07/09-08/11	SP NO. 700-29-0112 / LA-1- PHASE 1: Lafourche Parish, LA <i>Construction Monitoring Inspector.</i> Served in the field as on-site technician during construction for this project in southeast Louisiana. He assisted the Engineer with PDA testing and pile logging.

The firm employed by: Forte & Tablada, Inc.					
Name	Bradley S. Holleman, PLS, PE		Years of relevant experience with this employer	4.5	
Title	Senior Vice President, Survey/AMM		Years of relevant experience with other employer(s)	15	
Degree(s) / Years / Specialization			BSCE / 2009 / Civil Engineering with Minor in Land Surveying		
Active registration number/state/expiration date			PLS. 5082 / Louisiana / 09-30-2026 PE. 47165 / Louisiana / 03-31-2027		
Year registered	2012; 2022	Discipline	Land Surveying		
Contract role(s) / brief description of responsibilities			Survey Principal-in-Charge. Satisfies MPR #6 and #7		
Mr. Holleman will serve as Survey Principal-in-Charge during this contract, and in that role, he will coordinate with the Survey Task Managers to ensure task orders are estimated, started, and completed to meet scheduled deadlines, while also satisfying LADOTD deliverable standards and Forte and Tablada’s quality standards. Mr. Holleman has 14 years of experience in managing field crews and office work on on-system LADOTD Topographic Surveys, Boundary Surveys, and Right of Way Mapping, with 9 years being the Supervising Professional and 3 years as Principal. He has managed over 130 task orders under 5 separate Topographic and Right of Way Mapping IDIQ Contracts with LADOTD. Mr. Holleman fulfills MPRs 6 and 7. He is a professional land surveyor, registered in the state of Louisiana, having a minimum of five (5) years of experience in conducting topographic surveys and a minimum of five years of experience conducting boundary surveys and developing right-of-way maps for DOTD, as shown below.					
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).			
09/25-Present		Contract #OLHC BB1- O.B.2025.04.016 through O.B.2025.04.023, O.B.2025.04.049- Bridge Bundle Program- 9 OLHC Project Numbers (9 Bridge Sites), District 04, LA Principal-in-Charge for topographic surveying and establishing existing right-of-way for 9 bridge sites on 2-lane State Highways for the Office of Louisiana Highway Construction.			
08/23 – Present		Contract 4400025029 - H.015547, H.015548, H.015549, H.015341, H.015551, H.015552, H.015545, H.015550, H.015544, H.015553 Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program- 10 State Project Numbers (13 Bridge Sites), East Baton Rouge Parish, LA – Principal-in-Charge for topographic surveying and right-of-way mapping services for 13 bridge sites on 2-lane roadways.			
12/21 – Present		IDIQ Contract No. 4400021974 for Professional Surveying Services – Statewide, LA Principal-in-Charge performing Topographic Surveys for LA DOTD. To date, this IDIQ contract has included a total of 9 separate Task Orders for 7 State Highway Projects. Survey tasks included establishing deep rod control monuments, conventional topography, Hydrographic Survey, terrestrial and mobile LiDAR Survey, and producing Existing Drainage Maps.			
09/21 – Present		IDIQ Contract No. 4400021532 for Professional Surveying Services Statewide with Majority of Work in Districts 03 and 07 –Principal-in- Charge for property surveys, establishing existing right-of-way, right-of-way maps, and title take-offs for LA DOTD.			
06/21 – Present		Contract 4400019336 - H.014219, H.014222, H.014228, H.014231, and H.014236			



	Rural Bridge Replacement Initiative Phase II; 5 State Project numbers (20 Bridge Sites) in Districts 04 and 05, LA – Principal-in-Charge for topographic surveying and right-of-way mapping services for 20 bridge sites on 2-lane rural roadways.
01/21 - Present	H.004273.5 – I-49 Connector – Lafayette Parish, LA – LA DOTD Principal-in-Charge responsible for providing topographic and property surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long.
08/19 – Present	H.011670- I-10/Loyola Interchange Improvements, Kenner, LA Surveyor-in-Charge/Principal-in-Charge providing Topographic Survey, Right- of-Way Survey, Drainage Survey, and Right-of-Way Monument Mapping. The project stretches along I-10, from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd for approximately 3.2 miles of roadway. Mr. Holleman originally managed SJB Group’s portion of the Survey and is now serving as Principal-in-Charge for any ongoing or new work Forte and Tablada are tasked with.
03/24-04/24	H.015935 LA Hwy 47 Over Bayou Bienvenue- Emergency Bridge Replacement, St. Bernard/Orleans Parish, LA Principal-in-Charge to provide topographic surveying for an emergency bridge replacement of the LA 47 bridge over Bayou Bienvenue. In addition to the conventional topographic survey, a hydrographic survey of the Bayou was included. The bridge deck features and substructures were scanned through terrestrial LiDAR methods. Due to the emergency status of the project, the project was completed in a condensed timeline.
01/21 – 12/22	Contracts 4400010587 - Task Order 18; 4400015237- Task Order 1; 4400021974 - Task Orders 1, 3, and 4- H.003931 - Calcasieu River Bridge (HBI) – Calcasieu Parish, LA Principal-in-Charge for this project, providing topographic survey, Mobile and Terrestrial LiDAR, Multibeam Hydrographic survey of Lake Charles, and drainage mapping. This project is in a high-traffic industrial area along I-10 and is approximately 7 miles long. This Survey included four Phases of work, which were completed within a condensed timeline, requiring up to 6 Survey Crews being mobilized in order to meet deadlines for each Phase.
01/21 – 06/22	Retainer Contract No. 4400010587 for Professional Surveying Services – Statewide with Majority of Work in Districts 02, 03, 07, 61, and 62, LA Principal-in-Charge performing Topographic Surveys for LA DOTD. This Retainer contract included a total of 18 separate Task Orders for 11 State Highway Projects. Survey tasks included establishing deep rod control monuments, conventional topography, Hydrographic Survey, terrestrial and mobile LiDAR Survey, and producing Existing Drainage Maps.
01/21 – 03/22	Contract 4400017598 - H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990 Rural Bridge Replacement Initiative Phase I; 7 State Project Numbers (22 Bridge Sites) in Districts 04, 05, 08, and 58, LA – Principal-in-Charge for topographic surveying and right-of-way mapping services for 22 bridge sites on 2-lane rural roadways.
11/19 – 12/20	H.012083- Calcasieu River Bridge Investigation, Calcasieu Parish, LA Surveyor to provide Mobile LiDAR scanning services for the I-10/Lake Calcasieu bridge in Lake Charles, LA. Terrestrial scans were done underneath the bridge for 10 spans on the East and West side, on top of the deck to capture the superstructure, as well as from the water below to capture the substructure.
01/18 – 04/20	H.004100- I-10: LA 415 to Essen Lane, East Baton Rouge Parish, LA Surveyor-in-Charge for the topographic survey and 3D Mobile laser scanning. This project was for the widening design of Interstate 10 from LA 415 to Essen Lane in East Baton Rouge Parish. This Survey was part of a larger project that extended West to LA 415 and included a team of 4 Survey firms to complete the work on schedule.

The firm employed by: Forte & Tablada, Inc.				FORTE & TABLADA	
Name	Ross Wilson, PLS		Years of relevant experience with this employer	14.5	
Title	Senior Professional Land Surveyor		Years of relevant experience with other employer(s)	2	
Degree(s) / Years / Specialization			BS / 2010 / Geomatics		
Active registration number/state/expiration date			PLS. 5148 / Louisiana / 03-31-2028; Also Registered PLS in TX, MS, AR, FL, KY, TN, GA, MO. Certified Federal Surveyor (CFedS 1897)		
Year registered	2015	Discipline	Land Surveying		
Contract role(s) / brief description of responsibilities			Topographic Survey Manager		
Mr. Wilson will serve as Topographic Survey Manager during this contract, and in that role, he will supervise all field and office work performed on task orders. He will also lead the effort on estimating task orders and producing project deliverables. Mr. Wilson will be responsible for all QA/QC efforts from the beginning to the end of each task order, including the final project deliverables. Mr. Wilson has 13 years of experience managing field crews and office work for on-system LADOTD Topographic Surveys, with over 9 years being the Professional Surveyor in Charge on these projects. Mr. Wilson has managed over 40 task orders under 5 separate Topographic and Right-of-Way IDIQ Contracts with LADOTD, as well as over 105 Bridge Surveys throughout Louisiana. Mr. Wilson fulfills MPR 6 of being a professional land surveyor, registered in the state of Louisiana, having a minimum of five (5) years of experience in conducting topographic surveys for DOTD, as shown below.					
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).				
09/25-Present	Contract #OLHC BB1- O.B.2025.04.016 through O.B.2025.04.023, O.B.2025.04.049- Bridge Bundle Program- 9 OLHC Project Numbers (9 Bridge Sites), District 04, LA Surveyor-in-Charge for topographic surveying and establishing existing right-of-way for 9 bridge sites on 2-lane State Highways for the Office of Louisiana Highway Construction.				
08/23 – Present	Contract 4400025029- H.015547, H.015548, H.015549, H.015341, H.015551, H.015552, H.015545, H.015550, H.015544, H.015553 Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program - 10 State Project Numbers (13 Bridge Sites), East Baton Rouge Parish, LA – Surveyor-in-Charge for topographic surveying and right-of-way mapping services for 13 bridge sites on 2 lane roadways.				
12/21 – Present	IDIQ Contract No. 4400021974 for Professional Surveying Services – Statewide, LA Surveyor-in-Charge performing Topographic Surveys for LA DOTD. To date, this IDIQ contract has included a total of 9 separate Task Orders for 7 State Highway Projects. Survey tasks included establishing deep rod control monuments, Conventional Topo, Hydrographic Survey, terrestrial and mobile LiDAR Survey, Bridge Survey, and producing Existing Drainage Maps.				
06/21 – Present	Contract 4400019336- H.014219, H.014222, H.014228, H.014231, and H.014236 Rural Bridge Replacement Initiative Phase II; 5 State Project numbers (20 Bridge Sites) in Districts 04 and 05, LA - Surveyor-in-Charge for topographic surveying and right-of- way mapping services for 20 bridge sites on 2-lane rural roadways.				
08/19 – Present	H.011670- I-10/Loyola Interchange Improvements, Kenner, LA				

	Surveyor-in-Charge providing Topographic Survey, Right- of-Way Survey, Drainage Survey, Bridge Survey, and Right-of-Way Monument Mapping. The project stretches along I-10, from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd for approximately 3.2 miles of roadway. The Survey was part of a Design-Build Project, which required weekly data updates to allow the Design team to begin working and stay on schedule.
08/15 – Present	H.004273.5 – I-49 Connector, Lafayette Parish, LA Survey Manager/ Surveyor-in-Charge responsible for providing topographic, terrestrial LiDAR scanning, hydrographic, Bridge Survey, and property surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long.
03/24-04/24	H.015935 LA Hwy 47 Over Bayou Bienvenue - Emergency Bridge Replacement, St. Bernard/Orleans Parish, LA Surveyor-in-Charge to provide topographic surveying for an emergency bridge replacement of the LA 47 bridge over Bayou Bienvenue. In addition to the conventional topographic survey, a hydrographic survey of the Bayou was included. The bridge deck features and substructures were scanned through terrestrial LiDAR methods. Due to the emergency status of the project, the project was completed in a condensed timeline.
05/21 – 12/22	Contracts 4400010587 - Task Order 18; 4400015237- Task Order 1; 4400021974- Task Orders 1, 3, and 4- H.003931- Calcasieu River Bridge (HBI), Calcasieu Parish, LA Surveyor-in-Charge for this project providing topographic survey, Mobile and Terrestrial LiDAR, Multibeam Hydrographic survey of Lake Charles, and drainage mapping. This project is in a high-traffic industrial area along I-10 and is approximately 7 miles long. This Survey included four Phases of work, which were completed within a condensed timeline, requiring up to 6 Survey Crews being mobilized in order to meet deadlines for each Phase.
06/20 – 03/22	Contract 4400017598 - H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990 Rural Bridge Replacement Initiative Phase I; 7 State Project Numbers (22 Bridge Sites) in Districts 04, 05, 08, and 58, LA – Surveyor-in-Charge for topographic surveying and right-of-way mapping services for 22 bridge sites on 2-lane rural roadways.
11/19-12/20	H.012083 Calcasieu River Bridge Investigation, Calcasieu Parish, LA Surveyor to provide laser scanning services for the I-10/Lake Calcasieu bridge in Lake Charles, LA. Terrestrial scans were done underneath the bridge for 10 spans on the East and West side, on top of the deck to capture the superstructure, as well as from the water below to capture the substructure. In addition to the terrestrial scans, mobile LiDAR was done for future planning.
07/19-08/19	Danziger Bridge Repair Survey, Orleans Parish, LA Surveyor responsible for establishing control near the Danziger Bridge and using laser scanning methods to monitor the Danziger Bridge at different stages of bridge lifts. This survey was necessary due to damage to the joints, deck, and girder ends of the fixed spans on both sides of the bridge. This project included utilizing LiDAR data.

The firm employed by: Forte & Tablada, Inc.				
Name	Rachel Waldroup, PLS		Years of relevant experience with this employer	11
Title	Professional Land Surveyor		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			BS / 2020 / Environmental Science AAS / 2015 / Civil Surveying and Mapping Technology	
Active registration number/state/expiration date			PLS. 5277 / Louisiana / 09-30-2026	
Year registered	2022	Discipline	Land Surveying	
Contract role(s) / brief description of responsibilities			Professional Land Surveyor	
Ms. Waldroup will serve as Right-of-Way Survey Manager. In this role, she will supervise all field and office work performed on task orders with additional required right-of-way. She will also lead the effort of estimating Right-of-Way tasks and producing project deliverables. Ms. Waldroup has over 6 years of experience working on on-system LADOTD Topographic and Right-of-Way Surveys, with 3 years being a Professional Surveyor on these projects. She has worked on over 30 on-system LADOTD Surveys, including both Topographic and Right-of-Way work.				
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).			
09/25 - Present	Contract #OLHC BB1- O.B.2025.04.016 through O.B.2025.04.023, O.B.2025.04.049- Bridge Bundle Program- 9 OLHC Project Numbers (9 Bridge Sites), District 04, LA Surveyor for topographic surveying and establishing existing right-of-way for 9 bridge sites on 2-lane State Highways for the Office of Louisiana Highway Construction.			
04/24 – Present	IDIQ Contract No. 4400027919 for Professional Surveying Services – Statewide with Majority of Work in Districts 02, 61, and 62 Surveyor-In-Charge performing property surveys, establishing existing right-of-way, right-of-way maps, and title take-offs for LA DOTD. Under this contract, a total of 7 task orders have been executed. This contract showcases Ms. Waldroup’s familiarity with the process of managing an LADOTD Survey IDIQ Task Order from beginning to end.			
08/23 – Present	H.015547, H.015548, H.015549, H.015341, H.015551, H.015552, H.015545, H.015550, H.015544, H.015553- Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program- 10 State Project Numbers (13 Bridge Sites) District 61 (4400025029) Surveyor for topographic surveying and right-of-way mapping services that included title take-offs, field investigations to survey property boundary evidence, boundary analysis, existing right of way location determination and right of way mapping. The condensed timeline of the projects required that multiple crews be mobilized weekly to stay on schedule.			
09/21 – Present	IDIQ Contract No. 4400021532 for Professional Surveying Services Statewide with Majority of Work in Districts 03 and 07 – Surveyor/Surveyor-In-Charge performing property surveys, establishing existing right-of-way, right-of-way maps, and title take-offs for LA DOTD. Under this contract, a total of 24 task orders have been executed. This contract showcases Ms. Waldroup’s familiarity with the process of managing an LADOTD Survey IDIQ Task Order from beginning to end.			
06/21 – Present	H.014219, H.014222, H.014228, H.014231 and H.014236 Rural Bridge Replacement Initiative Phase II; 5 State Project numbers (20 Bridge Sites) in Districts 04 and 05 (4400019336) – Survey CAD Technician and Surveyor for topographic surveying and right-of-way mapping services that included title take-			

	offs, field investigations to survey property boundary evidence, boundary analysis, existing right of way location determination and right of way mapping.
03/21 – Present	MOVEBR (20-EN-HC-0003) Florida Blvd. Corridor Enhancement – East Baton Rouge Parish, LA Survey CAD Technician / Survey Manager for this project, providing topographic surveying, drainage mapping, and Right-of-way services. This project is in a dense urban area and is approximately 4 miles long. Forte and Tablada completed mobile LiDAR services for much of the congested corridor as a means of obtaining topographic data without endangering surveyors.
08/19 – Present	H.011670- I-10/Loyola Interchange Improvements- Kenner, LA Survey CAD Technician providing Topographic Survey, Right-of-Way Survey, and Drainage Survey. The project stretches along I-10, from the levee in Kenner to the Williams Blvd. off ramp, as well as Loyola Avenue and portions of Veterans Blvd for approximately 3.2 miles of roadway. The Survey was part of a Design-Build Project, which required weekly data updates to allow the Design team to begin working and stay on schedule.
08/15 – Present	H.004273.5 – I-49 Connector, Lafayette Parish, LA – LA DOTD Survey CAD Technician, Survey Intern, and Surveyor responsible for providing topographic, terrestrial LiDAR scanning, and property surveying services for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long.
04/25 - 07/25	Contract 4400024189 – Task Order 3 - H.016276- Sidney Leblanc Rd over Peebles Coulee, District 03 Surveyor for topographic surveying and right-of-way mapping services that included title take-offs, field investigations to survey property boundary evidence, boundary analysis, and existing right-of-way location determination.
04/25 - 06/25	Contract 4400024189 – Task Order 2 - H.015911- Grover Jones Rd over Williams Creek, District 04 –Surveyor for topographic surveying and right-of-way mapping services that included title take-offs, field investigations to survey property boundary evidence, boundary analysis, and existing right-of-way location determination.
05/21 – 12/22	Contracts 4400010587 - Task Order 18; 4400015237- Task Order 1; 4400021974- Task Orders 1, 3, and 4- H.003931- Calcasieu River Bridge (HBI), Calcasieu Parish, LA Survey CAD Technician for this project providing topographic survey, Mobile and Terrestrial LiDAR, Multibeam Hydrographic survey of Lake Charles, and drainage mapping. This project is in a high-traffic industrial area along I-10 and is approximately 7 miles long.
08/20 – 03/22	H.013979, H.013995, H.013992, H.013994, H.013985, H.013954, H.013990- Rural Bridge Replacement Initiative Phase I; 7 State Project Numbers (22 Bridge Sites) in Districts 04, 05, 08 and 58 (4400017598) Survey CAD Technician for topographic surveying and right-of-way mapping services that included title take-offs, field investigations to survey property boundary evidence, boundary analysis, existing right of way location determination and right of way mapping.
01/18 – 06/19	Contract 4400012323 - H.004100- I-10: LA 415 to Essen Lane to I-10 and I-12, East and West Baton Rouge Parishes - LA DOTD Survey CAD Technician for topographic survey, and terrestrial LiDAR survey of approximately 5 miles of roadway along I-10 and I-12 between LSU lakes and Essen Lane.

The firm employed by: Forte & Tablada, Inc.				FORTE & TABLADA	
Name	Trenton Iglehart		Years of relevant experience with this employer	3	
Title	Senior CAD Technician		Years of relevant experience with other employer(s)	27	
Degree(s) / Years / Specialization			N/A		
Active registration number/state/expiration date			N/A		
Year registered	N/A	Discipline	FAA Certified Remote Pilot - 4227009		
Contract role(s) / brief description of responsibilities			Hydrographic Task Manager		
Mr. Iglehart will serve as Hydrographic Task Manager during this contract, and in that role, he will manage all hydrographic field and office work performed on task orders. He will also lead the effort on estimating Hydrographic work for task orders and producing completed Hydrographic in LADOTD format, so that it can be seamlessly integrated into the Topographic files. Mr. Iglehart will be responsible for all QA/QC efforts throughout the process of each Hydrographic task, leading to the final review by the Surveyor. Mr. Iglehart has 12 years of experience on on–system LADOTD Topographic and Right of Way Surveys, and 27 years of Hydrographic Survey experience. He has performed CAD and management tasks on over 224 task orders under 22 separate Topographic & Right of Way IDIQ Contracts with LADOTD, which included 106 Bridge Surveys.					
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).				
02/25 – 03/25	Myrtle Grove QA Investigation and Post Dredge Surveys, Plaquemines Parish, LA Hydrographic Task Manager for a project consisting of a Singlebeam Hydrographic investigative QA survey of 5 miles of canals and a full post-dredge survey of 250 cross sections over 5 miles of canals in Plaquemines Parish for Plaquemines Parish Government.				
10/24	LADOTD Underwater Bridge Inspections (4400019121)- H.009730 Wax Lake Outlet US190 Bridge Hydrographic Task Manager for a project consisting of a Multibeam Hydrographic survey for Underwater Bridge Inspection.				
09/24 – 03/25	Amite River Sediment Removal Hydrographic Task Manager for this project, consisting of 34 miles of Multibeam Hydrographic Surveys for the Amite River from Port Vincent to Lake Maurepas. This survey was performed for the purpose of sediment stacking analysis and locating potential dredge sites.				
11/24 – 04/25	CPRA MID Barataria Access Dredge Route Hydrographic Task Manager for this project, consisting of 9 miles of single-beam hydrographic surveys for pre- and post-dredge QA for design compliance and volumetrics.				
06/24 – 09/24	Amite River Basin Commission Master Plan Hydrographic and Topographic Task Manager for this project, consisting of strategic Singlebeam Hydrographic Cross sections over 115 miles of the Amite River and Multibeam Hydrographic survey of the Amite River Weir for the Master Hydraulic model of the River Basin. Tasks also included the compilation of historic surveys dating back to 1980 for analysis.				
03/24-04/24	H.015935 LA Hwy 47 Over Bayou Bienvenue- Emergency Bridge Replacement, St. Bernard/Orleans Parish, LA Hydrographic Task Manager to provide topographic surveying for an emergency bridge replacement of the LA 47 bridge over Bayou Bienvenue. In addition to the conventional topographic survey, a hydrographic survey of the Bayou was included. The bridge deck features and substructures were scanned through terrestrial LiDAR methods. Due to the emergency status of the project, the project was completed in a condensed timeline.				

07/23 – 12/23	La46 Over Bayou La Loutre - Recall No.002650 (Yscloskey Bridge Investigation Survey), St. Bernard Parish, LA Hydrographic Task Manager for field data collection and processing for all Hydrographic survey data. This project consisted of topographic, monitoring, and Multibeam Hydrographic surveys for the purposes of engineering and inspection.
07/23 – 09/23	H.015047 Three Mile Lake Flood Reduction Senior CAD Technician/Hydrographic Task Manager for field data collection and processing for all Hydrographic survey data. Field data processing and drafting for Topographic Surveys. This project consisted of Bathymetric cross sections, the survey of the weir, and 3d terrestrial laser scans of 4 bridges surrounding 3 Mile Lake.
06/23 – 08/23	LA DOTD Underwater Acoustic Imaging - LA 14 Over Delcambre Canal Hydrographic Survey, Iberia Parish, LA Technician for the area around the LA-14 Bridge over Delcambre Canal. The work included typical cross-sections, and water bottom features below the waterline were collected using multi-beam and single-beam sonar equipment. Terrestrial LiDAR was used to capture the above-water.
09/22 – 12/22	LADOTD IDIQ for Hydrographic Survey (4400019715) - Survey Technician for hydrographic survey task orders on the Mississippi River (I-10 at Baton Rouge, Sunshine, Gramercy, Huey Long, and Crescent City Connection), Atchafalaya River (Krotz Springs EB and WB), Pearl River, and Pass Manchac at I-55.
07/17 – 07/22	H.010885 LA 91 Bayou Plaquemine Brule Bridge Replacement (4400010586), Acadia Parish, LA Senior CAD Technician/Hydrographic Task Manager for field data collection and processing for all Hydrographic survey data. Field data processing and drafting for Topographic Surveys. This project consisted of 0.25 miles of roadway/bridge topographic survey and 500' upstream & downstream bathymetric cross sections for Bridge Replacement.
10/14 – 07/17	IDIQ-Vicksburg & Memphis CORPS of Engineers Districts - Contract No. W912EE-14-D-0002 Various Levee Item surveys, River Revetment Hydrographic surveys, and Flood Structure surveys – Senior CAD Technician/Hydrographic Technician for the review, editing, data compilation, and then submitting the project to the Vicksburg District in the required formats. Services under this contract included Topographic, Hydrographic Surveys, Structure Inspection and Evaluation, I&E Monitoring Surveys, Geodetic Control Surveys, and Boundary Surveys on over 44 task orders.
09/13 – 04/14	H.002375: LA DOTD – Amite River Bridge near French Settlement – Route LA 16 – Livingston Parish, LA Senior CAD Technician/Hydrographic Task Manager for field data collection and processing for all Hydrographic survey data. Field data processing and drafting for Topographic Surveys. 3D terrestrial laser scanning and modeling for bridge substructures.
2009-2011	IDIQ – A&E Contract for Surveying Support Services for the Vicksburg CORPS of Engineers District - Contract No. W912EE-07-D-0004 Senior CAD Technician/Hydrographic Technician for the review, editing, data compilation, and then submitting the project to the Vicksburg District in the required formats. Services under this contract included Topographic, Hydrographic Surveys, Structure Inspection and Evaluation, I&E Monitoring Surveys, Geodetic Control Surveys, and Boundary Surveys on 26 task orders.

The firm employed by: Forte & Tablada, Inc.				
Name	Blake Bonnette		Years of relevant experience with this employer	8
Title	Task Lead – Aerial/Mobile LiDAR		Years of relevant experience with other employer(s)	1.5
Degree(s) / Years / Specialization			South Louisiana Community College / Lafayette / 2015	
Active registration number/state/expiration date			N/A	
Year registered	N/A	Discipline	FAA Certified Remote Pilot - 4077681	
Contract role(s) / brief description of responsibilities			Task Lead for Aerial and Mobile LiDAR	
Mr. Bonnette will serve as Task Lead for Aerial and Mobile LiDAR performed on this project, and in that role, he will supervise all field and office work performed for these tasks. He will also lead the effort on estimating LiDAR tasks within task orders and providing extracted data to be integrated into the Final Topographic Survey files. Mr. Bonnette has 9.5 years of experience capturing, processing, and managing LiDAR projects. Projects have included Terrestrial, Mobile, and Aerial LiDAR.				
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).			
02/25- Present	Contract 4400021974- Task Order 13- H.016278- US 167: Median Improvements- Vermilion Parish, LA Mobile LiDAR Project Lead to provide topographic and Mobile LiDAR surveying for the median improvements of the US 167. The survey included over 2 miles along a divided 4-lane highway in a rural area.			
01/16-Present	H.004273.5 – I-49 Connector – Lafayette Parish, LA – LA DOTD LiDAR technician responsible for providing terrestrial LiDAR survey of roadway features for the I-49 Connector. The project is in a dense urban area and is approximately 5 miles long. Forte and Tablada, Inc. completed terrestrial LiDAR scanning services for much of the congested corridor as a means of obtaining topographic data without endangering surveyors.			
03/2024	H.015935 LA Hwy 47 Over Bayou Bienvenue- Emergency Bridge Replacement, St. Bernard/Orleans Parish, LA LiDAR Project Lead to provide topographic surveying for an emergency bridge replacement of the LA 47 bridge over Bayou Bienvenue. In addition to the conventional topographic survey, a hydrographic survey of the Bayou was included. The bridge deck features and substructures were scanned through terrestrial LiDAR methods. Due to the emergency status of the project, the project was completed in a condensed timeline.			
01/23- 01/24	Contract 4400021974- Task Order 2- H.014218 US190-Livingston Parish Line – East Baton Rouge Parish, LA Mobile LiDAR Project Lead responsible for planning and execution of performing Mobile LiDAR and extraction for the project, providing topographic survey. This project is in a dense urban area and is approximately 4 miles long. The purpose of the project is to complete a road overlay and drainage improvements. Mobile LiDAR was utilized throughout the project as a means of obtaining topographic data without endangering surveyors.			
10/22 -12/22	Lafayette Streetscape Survey- Congress Street, Lafayette Parish, LA Mobile LiDAR Project Lead responsible for planning and execution of performing Mobile LiDAR and extraction for approximately a mile of roadway along Congress Street. This survey included mobile LiDAR scanning of all roadway features as a means of obtaining topographic data without endangering surveyors.			
05/21-12/22	Contracts 4400010587- Task Order 18; 4400015237- Task Order 1; 4400021974- Task Orders 1, 3, and 4- H.003931- Calcasieu River Bridge (HBI) – Calcasieu Parish, LA Mobile LiDAR Project Lead responsible for Mobile LiDAR acquisition and Mobile LiDAR extraction efforts. The project is in a high-traffic industrial area along I-210 and is approximately 7 miles long. Forte and Tablada completed Mobile LiDAR			

	scanning services for much of the corridor as a means of obtaining topographic data without endangering surveyors. The Survey also included a multibeam hydrographic survey of Lake Charles and Terrestrial LiDAR scanning of bridge substructures.
03/21 – 12/21	MOVEBR (20-EN-HC-0003) Florida Blvd. Corridor Enhancement – East Baton Rouge Parish, LA Mobile LiDAR Tech responsible for assisting with capturing mobile data. Responsible for processing and extracting the Mobile LiDAR data. This project is in a dense urban area and is approximately 4 miles long. Forte and Tablada completed mobile LiDAR services for much of the congested corridor as a means of obtaining topographic data without endangering surveyors.
11/19-12/20	Contract 4400010587- Task Orders 12, 14, and 15- H.012083- Calcasieu River Bridge INT Repairs, Calcasieu Parish, LA <i>Terrestrial LiDAR Task Lead.</i> to provide laser scanning services for the I-10/Lake Calcasieu bridge in Lake Charles, LA. Terrestrial scans were done underneath the bridge for 10 spans on the East and West side, on top of the deck to capture the superstructure, as well as from the water below to capture the substructure. In addition to the terrestrial scans, mobile LiDAR was done for future planning.
10/19-10/20	Inspection of Metal Culverts - Statewide, LA LiDAR technician to provide inspections and data acquisition for approximately 230 culvert locations statewide. Culvert measurements were acquired with a mixture of 3-D laser scanning, sonar, and LiDAR.
06/19-09/19	Contract 4400010587- Task Orders 11 and 13- H.000303.6- Danziger Bridge Repair, Orleans Parish, LA Laser scanning and project technician for Topographic and Monitoring survey, and terrestrial LiDAR scanning of Danziger Bridge. This survey was necessary due to damage to the joints, deck, and girder ends of the fixed spans on both sides of the bridge.
01/18-06/19	Contract 4400012323- H.004100- I-10: LA 415 to Essen Lane to I-10 and I-12- East and West Baton Rouge Parishes- LA DOTD Terrestrial LiDAR Technician responsible for assisting with scanning efforts for topographic survey of approximately 5 miles of roadway along I-10 and I-12 between LSU lakes and Essen Lane.
10/18-05/19	Contract 4400010587- Task Orders 2, 3, 4, 5, and 10- H.012343 Sunshine Bridge Repair – St. James Parish, LA LiDAR Technician responsible for working with the design team to formulate a practical solution for attaining advanced measurements that were compatible with traditional measuring practices, which were required for the structural analysis and repair design for the bridge.
05/17-10/18	Contract 4400009387- Task Orders 2 and 5- H.004791.5 Belle Chasse Bridge and Tunnel (HBI)- Plaquemines Parish, LA LiDAR Technician who led Terrestrial LiDAR processing and extraction efforts for comprehensive topographic surveying for the Belle Chase Bridge and Tunnel Replacement project for LA DOTD. Included in this work was a survey performed utilizing traditional methods, terrestrial laser scanning of roadway, bridge, and tunnel features, and multi-beam hydrographic surveying of the Algiers Canal and exterior features of the existing tunnel.

The firm employed by: Forte & Tablada, Inc.				
Name	Victoria Portera		Years of relevant experience with this employer	3
Title	Creative Specialist		Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization			BA / 2017 / Graphic Design – Southeastern Louisiana University, Hammond, LA	
Active registration number/state/expiration date			N/A	
Year registered	N/A	Discipline	Marketing / Graphic Design	
Contract role(s) / brief description of responsibilities			Marketing & Brand Specialist – Proposal graphics and layout; marketing collateral design; digital asset management; social media strategy; event branding; vendor coordination; internal communications 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).			
11/22 – Present	Forte and Tablada, Inc., Baton Rouge, LA <i>Creative Specialist / Marketing & Brand Manager.</i> Designed and produced proposal layouts and graphics for government RFP and RFQ submissions. Supported design, layout, and composition of firm marketing materials for proposals, advertisements, and industry events. Contributed to Project Profile Database, including project information sheets, personnel resumes, and supporting graphics. Maintained and organized firm-wide digital asset library, including icons, photography, and stock graphics. Created print and digital communications for Strategic Plan rollouts, Standard Operating Procedures, and internal announcements. Coordinated with print vendors, photographers, and videographers for marketing and event production. Managed social media platforms, including a monthly content calendar, visual design, and copywriting. Designed and produced the complete brand identity for the Digital Twin Symposium, including logomark, signage, wayfinding, programs, and email marketing campaigns. Built and grew the DigiTwin Global brand, including logomark, color palette, typography, and LinkedIn presence. Co-designed and launched a company-wide intranet used across all four offices.			
10/19 – 11/22	First National Bankers Bank, Baton Rouge, LA <i>Marketing Support Specialist.</i> Designed and updated marketing collateral across all branches, including pocket folders, proposals, reports, forms, social media templates, brochures, and PowerPoint presentations. Managed weekly email marketing campaign to bank customers. Created and designed monthly and quarterly advertising placements in state banking association publications. Maintained and updated the company website via CMS, including news posts and homepage content. Produced video content using Camtasia for conferences and internal department education. Created a yearly social media content calendar; designed and scheduled posts in Hootsuite. Designed annual report, including data visualization and layout for formal external publication. Created a wireframe in Adobe XD for the bank platform homepage UX improvement. Managed ordering of promotional marketing materials. Planned, branded, and helped launch the BSA Experience banking conference.			
10/17 – 05/19	CSRS, Inc., Baton Rouge, LA <i>Proposal Coordinator & Graphic Designer.</i> Assisted proposal team with layout design in Adobe InDesign for RFPs, RFQs, and SOQs at local and state government levels. Printed and bound proposal materials for delivery and submission. Coordinated sub-consultant materials and managed QA/QC of proposal content across a team of three coordinators. Researched and organized personnel resumes for inclusion in proposal submissions. Designed and laid out PowerPoint presentations within the company brand standards. Created logos in Adobe Illustrator for joint venture companies. Designed			

	final project reports in Adobe InDesign. Created flyers, brochures, and print materials for project meetings and events. Developed social media content calendar for Facebook and LinkedIn; took on-location photography for proposals.
10/16 – 05/17	Pelican State Credit Union, Baton Rouge, LA <i>Design Intern.</i> Designed marketing graphics for flyers, newsletters, and print media using Adobe Illustrator, Photoshop, and InDesign. Assisted in branding an employee-wide annual event. Provided photography for social media, internal blog, and new employee communications.

The firm employed by: Gulf South Research Corporation				
Name	Suna Adam		Years of relevant experience with this employer	32
Title	President		Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization			BS / 1988 / Forestry-Wildlife Management	
Active registration number/state/expiration date			NA	
Year registered	NA	Discipline	NA	
Contract role(s) / brief description of responsibilities			Quality Control / Quality Assurance Officer	
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. Adam is the President and a Senior Biologist at GSRC. As President, Ms. Adam maintains ultimate technical and financial responsibility for all contracts. She, therefore, also has the authority to assign personnel to projects, acquire the equipment or additional personnel necessary to complete a task, and to obtain subcontractors or consultants on an as-needed basis. Ms. Adam has served as contract manager on numerous indefinite delivery contracts for various governmental agencies, including LADOTD. Under her leadership, GSRC has grown from one employee in 1994 to 34 full-time professionals, with a contract-based providing annual revenues of several million dollars. As Senior Biologist, Ms. Adam has participated in numerous environmental projects, including endangered species surveys, wetland delineations, Environmental Assessments (EA), and environmental impact statements (EIS). Ms. Adam has attended various training courses including the NHI Course No. 142005, “National Environmental Policy Act (NEPA) and Transportation Decision Making”, a 40-hour Hazardous Waste Training course under 29 CFR 1910.1120 requirements, the U.S. Army Corps of Engineers Regulatory IV Wetland Identification and Delineation course, a U.S. Fish and Wildlife (USFWS) Symposium on the red-cockaded woodpecker (RCW), and a Habitat Evaluation Procedures (HEP) course also sponsored by USFWS.				
04/19-Present	General Services Administration (GSA), Contract No. 47QRAA19D006W Ms. Adam was responsible for preparing the proposal and award for this contract. Ms. Adam maintains the website information required for the contract, as well as the supplement to the new task order cost proposals. GSRC has numerous new tasks on this contract, including cultural and natural resources studies.			
09/22-Present	Program Manager. IDIQ Contract for Environmental and Cultural Resources. Contract No. W9123822D017 for USACE Sacramento District Ms. Adam manages the contractual responsibilities of the contract. She approves cost proposals, QA/QC of deliverables, modifications and any updates required.			
06/22-06/24	Contract Manager. Environmental Assistance in Texas, Louisiana, Mississippi and Arkansas. Contract No. 1064375-0000 for Entergy Ms. Adam was the contract manager for this contract. She was responsible for delegating the awarded projects, cost proposals, and overall contractual duties required.			
03/99-03/19	General Services Administration (GSA), Contract No. GS-10F-0058K Ms. Adam was responsible for updating the ebuy website, answering requests for proposals, and the reporting of quarterly sales of this contract. She managed all aspects of this contract, such as annual reporting and maintaining the contractual requirements of the online documentation.			
02/21-07/21	Contract Manager. Retainer Contract for Cultural Resources, (4400014188) LADOTD			

	GSRC was awarded the Retainer Contract for Cultural Resources. GSRC completed numerous task orders throughout Louisiana, including the Bonita Overpass and the Verot School Road Phase I cultural resources surveys.
02/17-02/19	Contract Manager. Retainer Contract for Forestry Services, (H.000428) LADOTD Ms. Adam was responsible for the overall management of the retainer contract. She delegated the staff for the fieldwork required to conduct forest inventories on several private landowners' properties. She also conducted QA/QC on all deliverables submitted to LADOTD.
06/19-06/19	Project Manager. Gopher Tortoise Surveys of the Plains All American Pipeline Right-of-Way, De Soto National Forest, Mississippi GSRC was contracted to conduct biological surveys for the federally endangered gopher tortoise (<i>Gopherus polyphemus</i>) along a 19-mile-long section of the Plains All American pipeline right-of-way that traverses portions of the De Soto National Forest in Mississippi. GSRC biologists located and marked a total of 48 gopher tortoise burrows during the survey.
11/07-08/13	Program Manager. Environmental Impact Statement, Interstate 69 (I-69) Corridor, Shreveport, Louisiana, LADOTD Ms. Adam coordinated the assignments for the wetland surveys, archaeological surveys, and meetings required for this EIS. GSRC was contracted to conduct all wetland delineations and reporting, as well as the cultural resources surveys required for this project. A Biological Assessment (BA) was also completed and approved by USFWS for the red-cockaded woodpecker. GSRC attended and assisted in the Public Meetings held in Shreveport.
01/01-11/03	Program Manager. Environmental Impact Statement, North-South Expressway (I-49), Shreveport to the Arkansas State Line, LADOTD Ms. Adam was the Program Manager for this project. Ms. Adam assisted in the technical review and data collection for the preliminary stages of this 42-mile corridor study. The primary tasks for GSRC were the cultural resources surveys for all alternatives proposed. A wetlands delineation and standing structures survey and report were also completed for this study. In addition, Ms. Adam assisted in preliminary report preparation and review of all documents submitted.
02/02-10/04	Project Manager. Environmental Inventory for the Proposed Louisiana Highway 117 Project, LADOTD Ms. Adam was responsible for all coordination, data collection, and field reconnaissance required to complete this project for LADOTD. This project consisted of utilizing all existing information and field verification. These results were incorporated into an environmental inventory report, which included the potential impacts on protected species, scenic streams, and wetland areas.
01/01-10/02	Project Manager. Wetland Delineation of Chalmette-Algiers Mississippi River Bridge, Plaquemine, St. Bernard, and Orleans Parishes, LADOTD Ms. Adam participated in field investigations, data collection, coordination, and report preparation for the corridor study. GSRC also attended the public meetings and authored sections of the NEPA document prepared for the project.
11/98-01/99	Project Manager. Wetland Delineation for Rigolets Pass & Approaches, Orleans Parish, LADOTD Ms. Adam managed project tasks, coordination, data collection, field investigations, and report preparation for the corridor study.

The firm employed by: Gulf South Research Corporation				
Name	Allen Fuller		Years of relevant experience with this employer	16
Title	NEPA/Wetland Biologist		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization			BS / 2008 / Plant and Soil Systems	
Active registration number/state/expiration date			Wetland Training Institute Wetland Plant Species Identification	
Year registered	NA	Discipline	NA	
Contract role(s) / brief description of responsibilities			Wetland Biologist / Delineation	
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. Fuller has participated in restoration projects in multiple states for clients including USACE, DoD, and various private companies. Mr. Fuller has conducted numerous wetland delineations and biological surveys. He has also assisted in wetland mitigation banking projects. Mr. Fuller currently manages multiple ongoing restoration projects for government agencies. He has conducted plant propagation, pesticide applications, and implemented various revegetation methods on many species in a variety of settings and has designed and installed irrigation systems for restoration projects in numerous states.				
09-Present	Biologist. Wetland Delineations for Private Clients, Louisiana Mr. Fuller assisted in the field surveys, report preparation, and permitting processes for wetland delineations within several parishes in Louisiana. Field surveys, plant identification, and report preparation were required to be submitted to the USACE for verification of wetland boundaries and permitting of dredge and fill operations for property development.			
02/20-02/21	Biologist. Wetland Delineations for a Proposed Wind Farm in Quitman and Tunica Counties, Mississippi. GSRC was contracted by CSRS to determine the extent of potential jurisdictional Waters of the U.S., including wetlands on approximately 43,000 acres near Tunica, Mississippi. The Area of Interest (AOI) consisted primarily of private agricultural lands interspersed with wooded streams and forested hunting lands. Mr. Fuller served as a field biologist for the wetland delineations, which were conducted both on foot and with the use of ATV's over the course of several months. Threatened and endangered species surveys were conducted concurrently with the wetland delineation surveys.			
09/17-10/18	Field Biologist. Multiple Wetland Delineations of Separate Project Areas for the Joint Readiness Training Center and Fort Johnson, Vernon Parish, Louisiana GSRC was contracted by the USACE, Fort Worth District, to perform wetland delineations for various construction projects as part of a larger effort to manage newly acquired lands within the jurisdiction of Fort Johnson. These lands contain large expanses of bottomland hardwood that offer potential as future mitigation credit sites. Mr. Fuller has participated in two wetland delineations for separate construction projects that have or will take place on the newly acquired property. The wetland delineation project areas were 18 acres and 87 acres in size and predominantly were located in areas containing upland loblolly pine plantations, mixed hardwood-loblolly pine forests, and bottomland hardwood forests. Mr. Fuller conducted the wetland delineation data collection and mapping and prepared the final summary report.			

The firm employed by: Gulf South Research Corporation				
Name	Christy Guempel		Years of relevant experience with this employer	8
Title	GIS Analyst		Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization			BS / 2003 / Geography	
Active registration number / state / expiration date			NA	
Year registered	NA	Discipline	NA	
Contract role(s) / brief description of responsibilities			GIS Analyst	
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. Guempel has over 14 years of professional experience as a geographic information systems (GIS) analyst and 7 years of professional experience as a GIS supervisor/trainer. Ms. Guempel’s environmental background includes working on projects involving coastal restoration, cultural resources, emergency response, environmental assessment, environmental remediation, litigation support, planning, permitting, wetland delineations, and wildlife habitat. Her responsibilities include geodatabase design and data entry, coordinate conversion, cartographic design, georeferencing, digitizing, spatial analysis, image interpretation, and supervised classification. Ms. Guempel is proficient in ESRI’s suite of software Version 10.6 and below. She has experience with light detection and ranging (LiDAR) analysis using Global Mapper software. She is also experienced with GPS equipment/software, such as ArcGIS Collector, Pathfinder Office, and Terrasync.				
07/21-12/22	Senior GIS Analyst. Environmental Support for the Laredo Soft Sided Facility (SSF) in Laredo, Webb County, Texas. GSRC was contracted to conduct a Phase I cultural resources survey of approximately 31 acres in Laredo, Texas. Ms. Guempel georeferenced and digitized previous archeological investigations and surveys within one mile of the survey area. She also georeferenced a series of historical aerials showing the survey boundary. She processed all Trimble GPS data collected in the field. Ms. Guempel created the maps presented in the report.			
10/20-02/22	Senior GIS Analyst. Louisiana Phase I Archaeological Investigation of 54 Acres for the Louisiana Correctional Institute for Women (LCIW) in Iberville Parish, St. Gabriel, Louisiana GSRC was contracted to conduct a cultural resources survey of 54 acres of land for the proposed construction of the Louisiana Correctional Institute for Women (LCIW) on behalf of Grace Hebert Curtis Architects and U.S. Department of Homeland Security Federal Emergency Management Agency (FEMA), Region VI. Ms. Guempel processed the shovel test pit (STP) GPS data. Following field notes and hand drawn plots, she digitized the STPs for the delineation of the archaeological site found on the property. She georeferenced and digitized the previous archaeological survey and sites conducted within a one-mile buffer of the project area. She created the figures presented in the report.			
04/19-01/21	Senior GIS Analyst. Phase I Cultural Resources Survey of 4,017 Acres for the Bienville National Forest Service, Smith, Newton, and Scott County, Mississippi GSRC was contracted by the U.S. Forest Service (USFS) to conduct an intensive Phase I cultural resources survey of approximately 4,017 acres in Smith, Newton, and Scott Counties, Mississippi within the Bienville National Forest. Ms. Guempel was responsible for GIS analysis, cartographic design, development of all maps for the report, and supervised the completion of the GIS geodatabase.			

09/18-11/19	Senior GIS Analyst. Phase I Cultural Resources Survey for the Bienville National Forest Service, Scott County, Mississippi GSRC was contracted by the USFS to conduct an intensive Phase I cultural resources survey of 4,980 acres among 81 units across 21 Compartments within the Bienville National Forest in support of the proposed Timber Sale Project in Scott County, Mississippi. Ms. Guempel provided GIS analysis of the field data, cartographic design, set-up the geodatabase schema, and created all maps presented in the report. She also supervised the completion of the GIS geodatabase deliverable.
09/14-09/19	GIS Analyst. Phase II (Cultural Technical Report) Environmental Planning Support for Rio Grande Valley Remote Video Surveillance System Program Update, U.S. Customs and Border Protection, Rio Grande Sector. CBP Ms. Guempel created the maps presented in the cultural resources technical report for the archaeological site testing of six archaeological sites discovered during the Phase I cultural resources survey. Along with creating the figures in the report, she also created the trench and test unit profile cross sections by georeferencing and digitizing the hand drawn grid field maps using ArcMap.
03/18-06/18	Senior GIS Analyst. Phase I Cultural Resources Survey of 55 Acres for Proposed Obstruction Removal, Allen Parish Airport, Allen Parish, Louisiana GSRC personnel conducted a Phase I cultural resources survey of 55 acres for proposed obstruction removal for the Allen Parish Airport in Allen Parish, Louisiana. Ms. Guempel assisted with this project by providing GIS analysis and cartographic design. She mapped the project location, overlaid NRCS soils data, georeferenced the 30 x 60 Geological Quadrangle for the project area and created maps for the cultural resources survey report.
09/18-10/20	Senior GIS Analyst. Phase I Archaeological survey of 330 acres at the Townsend Bombing Range, McIntosh and Long County, Georgia GSRC was contracted to conduct a Phase I archaeological survey of approximately 330 acres in McIntosh and Long Counties within the Townsend Bombing Range Area. Ms. Guempel pre-plotted over 1,400 STP points within the survey area to help the Project Director and field crew conduct the field survey. She processed the STP GPS data. Following hand drawn plots, she digitized the STPs for the delineations of potential sites found within the survey area. She georeferenced and digitized the previous archaeological survey and sites conducted within a one-mile buffer of the project area. She created the figures presented in the report.
09/19-10/21	Senior GIS Analyst. Phase I Archaeological survey of 398 acres at the Harvey Point Defense Testing Activity Area, Perquimans County, North Carolina GSRC was contracted to conduct a Phase I archaeological survey of approximately 398 acres in Perquimans County within the Harvey Point Defense Testing Activity Area. Ms. Guempel processed the Trimble GPS field data collected in the field. She digitized the delineated STPs for the seven sites found within the survey area using the hand-drawn field maps and digitized the proposed new archaeological boundaries for the site. She created the figures presented in the report.
05/22-10/22	Senior GIS Analyst. Maurice Environmental Analysis: Desktop Cultural Resources Constraints Analysis Ms. Guempel assisted with this project by mapping the proposed new and replacement powerline poles for Entergy. She georeferenced and digitized the previous archaeological sites and surveys that intersected the project area. She created the figures presented in the findings report.

The firm employed by: Gulf South Research Corporation				
Name	Ross Hackbarth		Years of relevant experience with this employer	8
Title	NEPA/Wetland Biologist		Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization			BA / 2014 / Botany	
Active registration number / state / expiration date			Wetland Training Institute – Wetland Delineation Training 2017	
Year registered	NA	Discipline	NA	
Contract role(s) / brief description of responsibilities			Wetland Biologist / NEPA. Satisfies MPR #4	
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).			
Ross Hackbarth is an ecologist specializing in vegetation assessments, wetland delineations, and floral inventories. Mr. Hackbarth has 5 years of experience in habitat analyses, ecological restoration, and NEPA documentation for numerous projects throughout the southern U.S. Mr. Hackbarth has provided assistance in the development of NEPA documents including EAs. He has performed field surveys for threatened and endangered species and habitat management planning for invasive species, including mapping seeds collection sites for re-plantings. Additionally, Mr. Hackbarth has experience in native plant nursery and greenhouse operations, wildlife surveys, nationwide permitting, and construction monitoring standards and regulations.				
09/20-09/23	Biologist. Environmental Assessment for Facility Enhancements and Land Use Modification Projects at Columbus Air Force Base, Mississippi GSRC was contracted by USACE, Mobile District, to complete an EA and supporting environmental studies for proposed construction, demolition, and land use modification actions at Columbus Air Force Base in Lowndes County, Mississippi. The proposed projects were the replacement and construction of a physical fitness center, replacement and construction of a water storage tank, and permanent placement of fill material into and onto the water bottom of a man-made lake. Mr. Hackbarth served as a technical preparer for sections of the EA and provided quality assurance for supporting documents including a biological resources report and environmental baseline study. Additionally, Mr. Hackbarth served as a GIS analyst and assisted with map creation for the various documents required under the contract.			
09/19-10/21	Field Biologist. Rare, Threatened, and Endangered Species, Bird, and Invasive Plant Inventory at Naval Construction Battalion Center Western Maneuver Area, Hancock County, Mississippi Naval Facilities Engineering Systems Command Southeast (NAVFAC SE) contracted JESCO Environmental and Geotechnical Services, Inc. and GSRC to conduct an inventory of rare, threatened, and endangered species, birds, and invasive plants on approximately 1,477 acres of land newly acquired by the U.S. Navy at the Naval Construction Battalion Western Maneuver Area (NCBC WMA) in Hancock County, Mississippi. Knowledge of the site occupancy and seasonal use of the survey area by these species supports the long-term sustainment and planning of NCBC WMA actions. Mr. Hackbarth participated in fall field surveys, which included live trapping (e.g., hoop nets, cover boards, trash can traps), bird point count stations, and pedestrian transects. One species documented in 2019 during point-count surveys, the little blue heron (<i>Egretta caerulea</i>), is considered a Tier II species of concern in the state of Mississippi.			
02/20-02/21	Field Biologist. Wetland Delineations for a Proposed Wind Farm in Quitman and Tunica Counties, Mississippi			

	GSRC was contracted by CSRS to determine the extent of potential jurisdictional Waters of the U.S., including wetlands on approximately 43,000 acres near Tunica, Mississippi. The survey area consisted of primarily private agricultural lands interspersed with wooded streams and forested hunting lands. Mr. Hackbarth served as a field biologist for the wetland delineations, which were conducted both on foot and with the use of ATVs over the course of several months. Threatened and endangered species surveys were conducted concurrently with the wetland delineation surveys.
09/17-10/18	Field Biologist. Wetland Delineations, Stream Biomonitoring Support, and Vital Rate Support for Fort Johnson, Vernon Parish, Louisiana GSRC was contracted by the USACE, Fort Worth District, to provide various environmental services at Fort Polk, including stream biomonitoring. Stream fish assemblages and macro-invertebrate surveys are used at Fort Polk to monitor water quality and assess potential effects of training activities on aquatic ecosystem health. GSRC assisted with studies to quantify the relative health of a limited number of streams on Fort Johnson in primary training lands. These studies can be used to address questions regarding potential training effects that may arise during NEPA analyses. Mr. Hackbarth took part in the stream biomonitoring of six Fort Johnson streams, which included: 1) electroshocking to collect fish samples; 2) scoop net sampling for macroinvertebrates; and 3) a qualitative analysis of stream appearance, structure, and condition.
02/19-10/19	Field Biologist. Wetland Delineation for the East Jackson County Wastewater Treatment Plant, Jackson County, Mississippi GSRC was contracted by Arcadis, on behalf of the East Jackson County Wastewater Treatment Plant, to perform a wetland delineation on a proposed pipeline ROW and adjoining parcel of land encompassing a total area of 203 acres. Habitat within the project area included pine and mixed pine-hardwood forests, bottomland hardwood forest, and periodically maintained pipeline and powerline ROWs. Mr. Hackbarth served as a biologist during all field survey activities. The project area was found to contain approximately 166 acres of potentially jurisdictional wetlands and 16,534 linear feet (3.13 miles) of potential jurisdictional Waters of the U.S.
01/19-11/19	Field Biologist. Biological Resources Survey and Wetlands Delineation for the Rio Grande Valley 50-Mile New Wall Construction Project, Starr and Hidalgo Counties, Texas. 2019 CBP contracted GSRC to provide environmental planning support for the proposed construction of approximately 50 miles of new border wall. Mr. Hackbarth served as a biologist for all natural resources survey activities including threatened and endangered species surveys, comprehensive floral and faunal documentation, and wetlands delineations. GSRC biologists conducted meandering pedestrian transects through the 200-foot-wide project corridor. Species lists were recorded for distinct vegetation communities. Threatened or endangered species observed included Zapata bladderpod (<i>Physaria thamnophila</i>), Texas tortoise (<i>Gopherus berlandieri</i>), and Texas horned lizard (<i>Phrynosoma cornutum</i>). Wetland delineations were conducted in accordance with the <i>Technical Report Y-87-1, Corps of Engineers Wetlands Delineation Manual</i> and the <i>2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Great Plains Region</i>

The firm employed by: Gulf South Research Corporation					
Name	Mark Hathorn		Years of relevant experience with this employer	4	
Title	Archaeological Technician		Years of relevant experience with other employer(s)	3	
Degree(s) / Years / Specialization			BA / 2017 / Anthropology		
Active registration number / state / expiration date			Registered Archaeologist		
Year registered	2020	Discipline	Registered Archaeologist		
Contract role(s) / brief description of responsibilities			Crew Chief / Field Technician		
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. Hathorn’s professional experience as a field technician and as a crew chief includes cultural resources management projects servicing State Parks and National Forests, site damage assessment and mitigation projects, surveying for roadway maintenance projects, and surveying land for the U.S. Military. Projects include large-scale Phase I cultural resources surveys in Tombigbee, Holly Springs, Bienville, Desoto, and Homochitto National Forests in Mississippi, in south Texas along the Rio Grande, and Ocala and Osceola National Forests in Florida. Phase I cultural resources surveys of parcels in Ascension and Iberville Parishes, Louisiana for proposed new construction projects, and surveys for Harvey Point Base in North Carolina, and Townsend Bombing Range in Georgia, as well as land surveys for the U.S. Government in upstate New York. He has been involved in Phase II archaeological site testing investigations for the Alabama Army National Guard, and in the city of New Orleans at Iberville, as well as Phase II archaeological site testing in Starr County, Texas.					
04/22-Present	Archaeologist/Archaeological Field Technician. Phase I Archaeological Survey of 130 Acres for the Cadillac Heights Levee, Dallas County, Texas Mr. Hathorn served as an archaeological field technician for a Phase I cultural resources survey to identify cultural resources that may be impacted by the proposed Cadillac Heights Levee within the Dallas Floodway Extension within the upper Trinity River Watershed, along the Trinity River. Systematic shovel testing and pedestrian surveys were carried out for this project. Mr. Hathorn also conducted and compiled research for the cultural resources survey technical report and co-authored the built environment historic context.				
05/22-Present	Archaeological Field Technician. Phase I Cultural Resources Survey in Caldwell Parish, Louisiana Mr. Hathorn served as an archaeological field technician and contributed to the final report of a Phase I cultural resources survey to identify cultural resources that may be impacted by the proposed construction and operation of a new Louisiana Green Fuels Bio-Refinery near the Port of Columbia, Louisiana. The field surveys included systematic shovel testing and pedestrian surveys.				
01/22-05/22	Archaeological Field Technician. Phase I Cultural Resources Survey of 1 Acre for the Ursula Parking Lot Land Purchase in McAllen, Hidalgo County, Texas Mr. Hathorn served as an archaeological field technician for the cultural resources survey of approximately 1 acre in McAllen, Texas. The survey was conducted on behalf of CBP for the proposed development of a parking lot to accommodate the existing and adjacent McAllen Centralized Processing Center (CPC). A pedestrian walkover utilizing 5-meter intervals and the excavation of 2 shovel test pits were carried out during this survey. No cultural materials were recovered.				
10/20-02/22	Archaeological Field Technician. Phase I Archaeological Investigations of 54 Acres for the Louisiana Correctional Institute for Women (LCIW) in Iberville Parish, St. Gabriel, Louisiana				

	Mr. Hathorn was involved in a Phase I cultural resources survey with GSRC. He conducted shovel testing and a pedestrian survey and assisted the field director with data collection and day to day operations. Mr. Hathorn also assisted with artifact analysis, as well as cataloging and photographing recovered artifacts.
10/20	Archaeological Field Technician. Phase I Archaeological Investigation of .55 Acres for the Proposed Retaining Wall, Ascension Parish, Louisiana Mr. Hathorn was involved in a Phase I cultural resources survey with GSRC. He conducted shovel testing and a pedestrian survey. The objective of this investigation was to determine the presence/absence of archaeological resources across the survey area. A total of 9 shovel test pits were excavated. No new sites were recorded within the project area and one previously discovered recorded site (16AN15) was updated.
01/20-10/20	Archaeological Field Technician. Phase I Cultural Resources Survey for the Desoto National Forest, Wayne County, Mississippi Mr. Hathorn was involved in a Phase I cultural resources survey with Wiregrass Archaeological Consulting. He conducted shovel testing, artifact recovery, and led site boundary delineations. He repaired field gear when necessary and assisted the field director with day-to-day operations and data recovery.
07/19-01/21	Crew Chief/Archaeological Field Technician. Phase I Cultural Resources Survey for the Bienville National Forest Service, Smith, Newton, and Scott County, Mississippi Mr. Hathorn served as a crew chief with GSRC for a Phase I cultural resources survey. Leading crews in the field, he assisted the field director in day-to-day operations and data collection efforts. He participated in shovel testing, artifact recovery, and conducted site boundary delineations. Mr. Hathorn assisted in the analysis of historical materials as well as contributing to the cultural resources survey report.
05/20-Present	Crew Chief/Archaeological Field Technician. Intensive Cultural Resources Survey of 16.7 miles for the proposed construction and maintenance of Border Barrier and Associated Infrastructure U.S Border Patrol, Laredo Sector, Webb County, Texas Mr. Hathorn served as a crew chief with GSRC for a Phase I cultural resources survey. Leading crews in the field, he assisted the field director in day-to-day operations and data collection efforts. He participated in shovel testing, artifact recovery, and conducted site boundary delineations. Mr. Hathorn assisted in the analysis of historical materials, conducted background research, and prepared sections for the cultural resources survey technical report.
10/20-5/21	Curatorial Assistant. Artifact Curation for Testing and Data Recovery for clearing and grubbing of 302 acres at England Airpark. Alexandria, Louisiana Mr. Hathorn assisted the archaeological laboratory director in preparing artifacts and associated documents for curation at the State of Louisiana curation facility in Baton Rouge, Louisiana. This includes properly bagging and labeling artifacts to repository standards, preparing curation boxes, organizing associated documents, as well as photo documenting culled artifacts and cultural materials that are included in the deliverables for curation.

The firm employed by: Gulf South Research Corporation				
Name	John Lindemuth		Years of relevant experience with this employer	32
Title	Principal Investigator / Archaeologist		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		MA / 1994 / Anthropology BA / 1990 / Anthropology / Sociology		
Active registration number / state / expiration date		NA		
Year registered	NA	Discipline	NA	
Contract role(s) / brief description of responsibilities		Archaeologist.		
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. Lindemuth has 23 years of experience in cultural resource management. He has participated in and supervised intensive cultural resources surveys, National Register of Historic Places (NRHP) Eligibility archaeological site testing, and data recovery excavations in nine states. He has experience in both prehistoric and historic site evaluation and excavation. He has analyzed both historic and prehistoric cultural remains for several different projects. Mr. Lindemuth’s experience working with governmental agencies at the local, state, and Federal levels has given him a broad knowledge of compliance with Section 106 of the National Historic Preservation Act (NHPA). Mr. Lindemuth has supervised and participated in chain of title search for historic properties, cultural resources surveys (Phase I), archaeological site testing (Phase II), and data recovery (Phase III). Mr. Lindemuth has also prepared technical reports, which outlined the results of all phases of archaeological investigations as well as agreement documents, such as Memorandums of Agreement (MOAs) and Programmatic Agreements (PAs), and preparation of Section 106 Adverse Effects documentation. Mr. Lindemuth is also familiar with the preparation of artifacts and associated records for permanent curation in accordance with curation guidelines, including those published by the Louisiana Division of Archaeology. Mr. Lindemuth is very familiar with conducting Section (4f) evaluations for LADOTD and Federal Highway Administration when highway improvements have the potential to affect public parks and recreational areas, waterfowl and wildlife refuges, and historic sites.				
08/18-05/20	Principal Investigator. Cultural Resources Survey of 12.01 Linear Miles and 20 Grading and Construction Easements for the Proposed Rio Grande City Road Improvement Project, Rio Grande City, Texas, Rio Grande Valley Sector, U.S. Customs and Border Protection, Department of Homeland Security, Starr County, Texas Mr. Lindemuth served as Principal Investigator for the intensive cultural resources survey of 12.01 linear miles of road construction and improvement corridor totaling 57.4 acres. The survey included a pedestrian walkover and excavation of STPs. The survey identified 14 new archaeological sites, revisited and updated two previously identified archaeological sites, and recorded 12 isolated occurrences. Four of the 16 archaeological sites recorded or updated during the survey were recommended for additional testing to determine their eligibility for the NRHP. Mr. Lindemuth directed crews in the field, co-authored the cultural resources technical report, and integrated the findings in the associated NEPA documentation for the project.			
12/13-12/14	Principal Investigator. Phase I Cultural Resources Survey for the Proposed England Airpark Clearing and Grubbing for Wildlife Hazards Control Mr. Lindemuth served as the principal investigator for the cultural resources survey of 53 acres for proposed clearing and grubbing. Two archaeological sites, two standing structures, and two isolated finds were recorded during the surveys. None			

	of the sites, standing structures, or isolated finds were recommended eligible for the NRHP. Mr. Lindemuth wrote the technical report outlining the results of the study and also integrated the results into the EA, which was prepared for the project in compliance with the NEPA.
04/14-10/17	Principal Investigator. Archaeological Phase II Testing and Phase III Mitigation and Data Recovery at Two Cultural Resources Sites, The McNutt Plantation (16RA692) and the Weil Property (16RA703), for England Economic and Industrial Development District, Alexandria, Louisiana Mr. Lindemuth served as the principal investigator for the combined Phase II NRHP archaeological site testing and Phase III data recovery excavations for two historic sites located in Rapides Parish, Louisiana. Mr. Lindemuth aided in the development of the Research Design and Work Plan, culling agreement, the management summaries for both the Phase II and Phase III work, the Memorandum of Agreement to address the adverse impacts on the sites, and the combined Phase II and III technical report. The project recovered over 3,000 artifacts dating from the middle nineteenth to twentieth century found in association with multiple features including foundation piers and a belowground cistern. The production of the management summaries allowed for the expedited review of the project so that it could proceed while the final cultural resources report was completed.
07/07-01/16	Principal Investigator. Phase I Survey of the proposed I-69 Corridor, Caddo and Bossier Parishes, Louisiana Mr. Lindemuth served as principal investigator and supervised the field investigations during the Phase I cultural resources survey. The project consisted of multiple phases of data collection that were analyzed using GIS and used for the planning of the project corridor. The sources of data included known archaeological sites, known historic standing structures, geomorphology of the area, high- and low-probability zones developed by the principal investigator, the geomorphologist, and field director, and the results of a standing structure survey of a preferred corridor. Phase I intensive cultural resources surveys were conducted on the alignment selected using these criteria. Mr. Lindemuth directed the field investigations and was the primary author of the cultural resources survey report, which outlined the results of the surveys.
09/22-Present	Project Archaeologist. Class III Cultural Resources Survey of 12-Acres for the Proposed Three Points Border Patrol Station Expansion, U.S. Border Patrol Tucson Sector, Pima, County, Arizona (Arizona Department of Transportation Project Number: H08801R, Agreement CRA-3308-1), CBP Mr. Lindemuth served as project archaeologist for the cultural resources inventory of 12 acres for the proposed expansion of the U.S. Border Patrol Station located in Three Points, Arizona. The project was conducted in association with SWCA Environmental Consultations under their permit for Arizona State Land. Nine isolated occurrences were noted during the surveys, none of which were recommended eligible for the National Register of Historic Places. Mr. Lindemuth coordinated the fieldwork with personnel from both companies and prepared the Arizona State Historic Preservation Office Survey Report Summary Form under the direction of the principal investigator for the project.

The firm employed by: Gulf South Research Corporation				
Name	Sean Graham, PhD		Years of relevant experience with this employer	7
Title	NEPA/Senior Biologist		Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization			PhD / 2013 / Oceanography & Coastal Sciences MS / 2003 / Environmental Science BA / 1998 / Environmental Studies	
Active registration number / state / expiration date			Wetland Training Institute Coastal and Estuarine Research Federation	
Year registered	NA	Discipline	NA	
Contract role(s) / brief description of responsibilities			NEPA	
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).			
Dr. Graham has managed natural resources and environmental planning and compliance projects throughout the U.S., including biological assessments for protected species, natural resources inventories, environmental assessments, and environmental stewardship plans. These NEPA projects led by Dr. Graham have involved vegetation and wildlife surveys, wetland determinations, data collection and analysis, biological monitoring, ecological restoration, agency consultation, public outreach, and the preparation of technical reports required for environmental compliance. Through this project experience, Dr. Graham has developed a broad understanding of applicable federal and state regulations and permitting requirements.				
08/19-11/20	Biologist. Environmental Assessment for Hurricane Michael Recovery and Installation Development Support at Tyndall Air Force Base, Florida. U.S. Army Corps of Engineers, Mobile District This GSRC contract provided NEPA planning support for the recovery of mission capabilities at Tyndall Air Force Base following the impact of Hurricane Michael in 2018. In support of this project, Dr. Graham conducted waters of the U.S., including wetlands, delineation surveys at 31 project areas within Base. Wetland delineations were performed in accordance with <i>Technical Report Y-87-1, Corps of Engineers Wetlands Delineation Manual</i> and the <i>2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coast Plain Region</i> .			
01/19-11/24	Project Manager. Environmental Planning Support for Border Infrastructure within the U.S. Border Patrol Rio Grande Valley Sector, Texas. U.S. Customs and Border Protection GSRC was tasked by U.S. Customs and Border Protection (CBP) to provide environmental planning support for the Rio Grande Valley (RGV) border wall construction corridor identified as RGV-10 in Cameron and Hidalgo County, Texas. As part of this project, GSRC provided a variety of environmental services, including: (1) transaction screens of hazardous materials; (2) biological surveys, analysis, documentation, and consultation support in compliance with the Endangered Species Act; (3) architectural and archaeological surveys, analysis, documentation, and consultation support in compliance with the National Historic Preservation Act; (5) delineations of waters of the U.S., including wetlands, and associated reports; (6) an Environmental Stewardship Plan (ESP); and (7) biological and cultural monitoring during construction activities. Dr. Graham was responsible for coordinating and managing all aspects of this project, including all budget, scheduling, and subcontract requirements, and was the lead author of the ESP.			

02/20-11/21	Senior Ecologist. Military Ocean Command Concord Programmatic Environmental Assessment. U.S. Army Corps of Engineers, Sacramento District Dr. Graham served as senior ecologist on the GSRC team tasked with developing a Programmatic Environmental Assessment (PEA) that analyzes the potential environmental consequences of renovation, demolition, and construction projects required to modernize terminal operations at Military Ocean Terminal Concord (MOTCO), Concord, California. In this role, Dr. Graham provided project-level ecological oversight, contributed as an author of the PEA, and coordinated agency and public review as well as transmittal of the final deliverable.
08/18-03/19	Project Manager. Meta-analytic Synthesis of Long-term Wetland Impacts, Recovery, and Resilience Following the Deepwater Horizon Oil Spill. Gulf of Mexico Research Initiative This project applied meta-analytic and other approaches to synthesize data across multiple coastal marsh ecosystem components to further understand impacts and recovery trajectories following the Deepwater Horizon (DWH) oil spill. The focus was on wetland vegetation, benthic macroinvertebrates and infauna, shoreline erosion, and soil-oiling characteristics. As lead Principal Investigator, Dr. Graham coordinated and participated in all aspects of project development, including proposal and budget preparation, data acquisition and analysis, workshop planning, report preparation, and media interaction.
09/20-10/24	Project Manager. Listed Species Conservation at Naval Air Weapons Station China Lake, California. Naval Facilities Engineering Systems Command Southwest Dr. Graham managed the implementation of multiple, interrelated projects that addressed evolving management strategies, conservation actions, and protective measures to effectively manage and conserve natural resources, including federally listed species, at NAWSCL, China Lake, California. Work performed under this task order supported: 1) updating vegetation mapping classifications to current Navy metrics standards; 2) development of a common raven (<i>Corvus corax</i>) management plan; 3) providing Mohave desert tortoise authorized biologist support; 4) development of an education video for the NAWSCL Environmental Awareness Training Program; 5) analysis of desert tortoise genetics and climate change; 6) GIS support and updates; 7) development of interpretive environmental education signage; and 8) mapping invasive tamarisk (<i>Tamarix spp.</i>) vegetation.
10/19-11/21	Project Manager. Natural Resources Surveys, Naval Station Newport, Newport, Rhode Island. Naval Facilities Engineering Command Mid-Atlantic Dr. Graham led the GSRC effort to update the Natural Heritage Inventory and Assessment for Naval Station Newport as set forth in the installation's INRMP. As part of the INRMP implementation process, Dr. Graham coordinated, managed, and conducted natural resources surveys to collect data on terrestrial, wetland, and shoreline biodiversity throughout the installation, including federal and state listed rare, threatened, and endangered species.
2020	Project Manager. El Paso Central Processing Center Environmental Planning. U.S. Customs and Border Protection. 2020. \$99,618 Under this GSRC contract, Dr. Graham prepared an EA to address the potential effects resulting from the proposed construction and operation of a new USBP Central Processing Center in the USBP El Paso Sector, El Paso, Texas. In support of the EA, Dr. Graham also coordinated and supervised the completion of a biological resources survey, cultural resources investigation, and Phase I Environmental Site Assessment, conducted agency consultations in compliance with NEPA, and prepared an Administrative Record of the EA preparation process.

The firm employed by: Gulf South Research Corporation				
Name	Howard Nass		Years of relevant experience with this employer	25
Title	NEPA/Senior Biologist		Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization			BS / 1990 / Forest and Wildlife Management	
Active registration number / state / expiration date			NA	
Year registered	NA	Discipline	NA	
Contract role(s) / brief description of responsibilities			Role on this Project: Senior Biologist / Wetlands/NEPA	
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. Nass has over 31 years of experience managing and implementing NEPA and NEPA-related studies for various federal, state, and private entities. He has participated in EAs, BAs, EISs, wetland determinations and delineations, wetland mitigation bank development, water resources permitting, and natural resources projects throughout the U.S. Mr. Nass has managed the completion of over a dozen BAs in various states. Mr. Nass has also taken the NHI Course No. 142005, “National Environmental Policy Act (NEPA) and Transportation Decision Making”. Certifications: U.S. Fish and Wildlife Service (USFWS) Interagency Consultation for Endangered Species, 2006; Basic Wetland Delineation Course, Wetland Training Institute, 1992; Nationwide Wetland Permits, Wetland Training Institute, 1997				
01/24-Present	Project Manager. EA for Louisiana Green Fuels Bio-Refinery Project, Caldwell Parish, Louisiana. Strategic Biofuels, LLC GSRC is currently contracted by Strategic Biofuels, LLC. (Strategic) to prepare an EA analyzing the potential effects on the natural and human environment resulting from the construction, operation, and maintenance of a renewable fuels bio-refinery in Caldwell Parish, Louisiana. Strategic is proposing to construct, operate, and maintain the Louisiana Green Fuels (LGF) refinery, a renewable fuels bio-refinery with an ultra-low carbon footprint in northeast Louisiana powered by onsite-generated “green” power that would use forestry residue as a feedstock and include Carbon Capture and Sequestration of the carbon dioxide produced from all processes. The project would also include two approximately 1-mile pipelines, two CO₂ injection wells located offsite, and an approximately 1-mile natural gas pipeline. The majority of the project area is agricultural land used for crop production. Mr. Nass is responsible for the preparation of the EA; oversight of associated studies (wetlands, cultural resources, and biological resources); schedule; budget; and agency, tribal, and public coordination.			
09/20-09/23	Senior Reviewer. EA for Facility Enhancements and Land Use Modification Projects at Columbus Air Force Base (CAFB), Mississippi. USACE Mobile District Mr. Nass served as the Senior Reviewer for the EA to address the potential effects, beneficial and adverse, resulting from the proposed construction, demolition, and land use modifications of multiple planned actions at CAFB, Mississippi. The 14th Civil Engineer Squadron (CES)/Civil Engineering Environmental Installation (CEIE) plans the replacement and construction of the Physical Fitness Center, replacement and construction of the Water Storage Tank, and the permanent fill in of the Strategic Air Command (SAC) Lake. The Region of Influence of the Proposed Action is the land area within the boundaries of the CAFB. In support of the permanent fill in of the SAC Lake, GSRC staff biologists conducted a biological resources survey of flora and fauna species in the vicinity of the proposed project. CAFB is also planning for the acquisition of 118.2 acres of land abutting the East/South-East property line of CAFB from a private individual to the United States Air Force.			

11/20-09/21	Project Manager. EA for the Construction, Operation, and Maintenance of the New Laredo Air Branch Facility U.S. Border Patrol, Laredo Sector, Texas. U.S Customs and Border Protection, Laredo Sector, Texas GSRC was contracted by CBP to prepare an EA for a new Air and Marine Operations (AMO) Air Branch Facility at the Laredo International Airport in Laredo, Texas. The current facility is overcrowded and does not meet CBP facility standards. The overcrowded conditions do not provide the safest, most secure working environment for personnel. Currently, the CBP AMO is unable to expand operations or support surge capacity to meet mission requirements at the current facility. The purpose of the project is to alleviate overcrowded conditions and to allow room for current and planned future growth. As a part of the contract, GSRC was responsible for conducting a biological resources survey, cultural resources survey, Waters of the U.S. survey, and preparing a Phase I Environmental Site Assessment on the 13-acre project site. Mr. Nass supervised, directed, and participated in the preparation of the EA and FONSI and associated studies. He was also responsible for all agency, tribal, and public coordination concerning the EA. All functions of the current AMO leased facility at the Laredo Airport would be transferred to the new Air Branch Facility.
02/21-04/23	Project Manager. St. Tammany Parish Wetland Planning Map and Policy. Resilient Development and Management, LLC GSRC was contracted to develop a wetland planning map for St. Tammany Parish, Louisiana. GSRC developed a color-coded wetland planning map using existing data such as National Wetland Inventory, hydric soils, digital elevation data, drainage data, and field verification surveys. The map was color-coded based on the potential to develop in a specific area and the degree of difficulty obtaining a permit. GSRC also participated in the development of a wetland policy manual for St. Tammany Parish. The purpose of the project was to develop a policy for development resiliency. Mr. Nass supervised and oversaw the development of the color-coded wetland map and wetland policy.
06/13-08/15	Project Manager. Interstate 12 (I-12) to Bush Mitigation Plan, LA 3241, St. Tammany Parish, Louisiana, LADOTC GSRC was contracted by LA DOTD to prepare a mitigation plan for unavoidable impacts on jurisdictional wetlands associated with the construction of the I-12 to Bush Highway in St. Tammany Parish, Louisiana. The mitigation of unavoidable impacts on jurisdictional wetlands is required by Section 404 of the Clean Water Act (CWA). As part of the contract, GSRC researched the best methods for identifying mitigation measures for projects similar in scale to the I-12 to Bush Highway project. This report provides the methodology used by GSRC to identify the best methods for identifying mitigation measures for projects similar in scale, research findings, and recommended best practices for wetland mitigation. Mr. Nass researched current mitigation practices used by other States' Departments of Transportation to streamline the USACE 404 permitting process and mitigation requirements associated with the approval of a Department of the Army individual permit and to reduce costs and liability. Additionally, GSRC identified numerous potential mitigation providers and assisted LADOTD during the selection and negotiation process. Mr. Nass was responsible for scheduling, budget, project coordination with LADOTD and private mitigation banks and landowners, preparation of all necessary project documents, and negotiating with the selected mitigation bank provider.

The firm employed by: Gulf South Research Corporation				
Name	Beau Rapier		Years of relevant experience with this employer	8
Title	NEPA/Wetland Biologist		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization			BA / 2016 / Forestry Wildlife Management and Habitat Conservation MS / 2018 / Science in Biology	
Active registration number / state / expiration date			38-Hour USACE Wetland Delineation Training Program	
Year registered	NA	Discipline	NA	
Contract role(s) / brief description of responsibilities			Role on this Project: Wetland Biologist / Threatened and Endangered Species	
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. Rapier has 10 years of experience working in 28 states, predominately focused on mammals of conservation concern, but he has also held positions surveying for birds, vegetation, herpetofauna, and parasite/disease dynamics. Mr. Rapier has led field crews to conduct point count surveys for Neotropical migratory birds of conservation priority, as well as identifying and buffering active bird nests in ROWs. In addition, he has aided in reporting cases of white-nose syndrome in Indiana bats, northern long-eared bats, and gray bats in Illinois and Tennessee. Mr. Rapier has managed and performed a range of field-related tasks, wrote NEPA documents, and acquired permitting for various project components.				
10/24-Present	Project Manager. Plaquemines Wetland Desktop Survey, Louisiana GSRC is under contract with Principal Engineering on behalf of the Coastal Protection Restoration Authority to perform a desktop wetland delineation for eight separate project areas. Mr. Rapier will collect data from USFWS, USDA, and FEMA, create and digitize polygons to delineate the perceived jurisdictional wetland/upland boundary, submit findings reports and budgets, and coordinate with multiple teams and stakeholders.			
10/23-Present	Central Wetland Delineation, Louisiana GSRC is under contract with Forte and Tablada to perform a wetland delineation on an approximately 50-acre parcel of land and 17 separate ditch segments. Mr. Rapier conducted the delineations, prepared the wetland findings report, and submitted findings to the USACE. GSRC has received the Preliminary Jurisdictional Determination and is assisting the client in determining the next steps to take in the permitting process.			
04/20-11/23	Project Manager. Gopher Tortoise Population Surveys, Mayport Florida GSRC was contracted by NAFVAC SE to conduct gopher tortoise burrow surveys. Field surveys were conducted in two phases. During the first phase, Mr. Rapier walked parallel transects through suitable gopher tortoise habitat and recorded transects using a Trimble GPS unit. Each burrow observed was photographed, recorded with the GPS unit, and temporarily marked with flagging. Each burrow was then classified by size and noted as active, inactive, or abandoned. During the second phase, Mr. Rapier used a specially designed gopher tortoise burrow camera to verify the presence or absence of gopher tortoise in all burrows over 3 inches in diameter. Mr. Rapier also documented vegetation characteristics at each gopher tortoise survey site and if other animals were utilizing the gopher tortoise burrows. Mr. Rapier handled the preparation and execution of all project deliverables, including data analysis and technical reports.			
09/20-11/23	Project Manager. Eastern Indigo Snake and Gopher Tortoise Surveys, Kings Bay Georgia			

	GSRC was contracted by NAFVAC SE to conduct surveys for the presence of gopher tortoise and eastern indigo snake at Naval Submarine Base (NSB) Kings Bay in Camden County, Georgia. In total, six drift fence arrays were established in areas that appeared suitable for eastern indigo snakes. Drift arrays were fixed with automatic cameras pointed towards the ground to passively detect animals that traversed the array. For the gopher tortoise burrow surveys, Mr. Rapier walked parallel transects through suitable gopher tortoise habitat and recorded transects using a Trimble GPS unit. Each observed burrow was photographed, recorded with the GPS unit, and temporarily marked with flagging. Burrows were classified by size and noted as active, inactive, or abandoned. Mr. Rapier handled the preparation and execution of all project deliverables, including data analysis and technical reports.
06/21-10/21	Project Manager. Wharton Wetland Delineation, Louisiana GSRC was contracted by a private landowner to perform a wetland delineation on an approximately 17-acre parcel of land. Mr. Rapier conducted the delineation, wrote the wetland findings report, and submitted the report to the USACE. After receiving the Preliminary Jurisdictional Determination, GSRC aided the client in determining the next steps to take in the permitting process.
04/20-06/20	Project Manager. Morrison Hill Wetland Delineation, Louisiana. Morrison Enterprises LLC GSRC was contracted by Morrison Enterprises, LLC to perform a wetland delineation on an approximately 9-acre parcel of land. Mr. Rapier conducted the delineation, wrote the wetland findings report, and served as a liaison between the client and the USACE until a Preliminary Jurisdictional Determination was issued.
09/18-09/19	Field Crew Lead. Migratory Bird and Rare and Threatened Species Surveys, Mammal Surveys, Herpetofauna Surveys, Mississippi GSRC was contracted by NAVFAC SE to survey the Stennis Western Maneuver Area for migratory bird species with a special focus on documenting any federally or state threatened or endangered species that may be present. Mr. Rapier conducted point counts, meandering or opportunistic surveys, and call playback surveys for secretive marsh birds on a quarterly basis to record, to the best extent possible, all bird species on the installation. Mammal surveys consisted of Tomahawk trapping and deploying trail cameras with scent lures. Herpetofauna surveys consisted of deploying cover boards, floating turtle traps, submerged trashcan traps, hoop nets, and glow-stick-baited funnel traps.
02/19-Present	Project Manager. Wetland Delineation for the East Jackson County Wastewater Treatment Plant, Jackson County, Mississippi GSRC was contracted by Arcadis, on behalf of the East Jackson County Wastewater Treatment Plant, to perform a wetland delineation on a proposed pipeline ROW and adjoining parcel of land encompassing a total area of 203 acres. Habitat within the project area included pine and pine-hardwood forests, bottomland hardwood forest, and periodically maintained pipeline and powerline ROWs. Mr. Rapier served as a biologist during all field surveys, wetland delineations, and Phase 1 ESAs. Mr. Rapier was responsible for project management and preparation of all deliverables.
04/19-08/19	Project Manager. Trimcane Wetland Delineation, Mississippi. Trimcane, LLC GSRC was contracted by Trimcane, LLC to perform a wetland delineation on an approximately 35-acre parcel of land. Mr. Rapier conducted the delineation, wrote the wetland findings report, and submitted this to the USACE. After receiving the Preliminary Jurisdictional Determination, GSRC aided the client in determining the next steps to take in the permitting process, including an alternatives analysis and Department of the Army Permit.

The firm employed by: Gulf South Research Corporation				
Name	Bretton Somers, PhD		Years of relevant experience with this employer	17
Title	Principal Investigator / Archaeologist		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		PhD / 2007 / Geography MA / 2004 / Geography BA / 1994 / Communications		
Active registration number / state / expiration date		RPA / 2022		
Year registered	2005	Discipline	Registered Professional Archaeologist	
Contract role(s) / brief description of responsibilities		Role on this Project: Archaeologist		
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).			
Dr. Somers joined the team at GSRC as an archaeologist in 2007. His 2007 completion of his doctorate provided him with 6 years of experience in archaeological research, fieldwork, and GIS analysis. With GSRC, Dr. Somers has supervised and participated in over 50 cultural resources investigations including Section 106, Section 110, and environmental compliance projects in 19 states. Dr. Somers has also worked outside the U.S. in Belize and Cuba. This involvement has provided a broad base of experience in prehistoric and historic archaeology across several regions of North America, has allowed him the opportunity to work with numerous tribal and government agencies at the local, state, and Federal levels, and has given him a broad knowledge of cultural resources laws and regulations.				
03/20-05/20	Project Manager/Principal Investigator. Phase I Archaeological Investigation of the St. Rose to Norco Pipeline, St. Charles Parish, Louisiana Dr. Somers served as project manager and principal investigator for the intensive Phase I cultural resources survey of 7.4 miles (75.14 acres) of proposed new pipeline from the International Matex Tank Terminal (IMTT) in St. Rose to portions of Shell’s Norco Manufacturing Complex facility in Norco in St. Charles Parish, Louisiana. GSRC conducted the investigation on behalf of Ramboll US Corporation (Ramboll) under Section 106 of the NHPA. The investigation included an intensive Phase I archaeological survey combining pedestrian surface inspection with STPs excavated along transects using a high probability predictive model. No archaeological sites were recorded during this investigation. No aboveground/built resources over 50 years of age were recorded within or adjacent to the survey area. As a result, no further archaeological investigations were recommended for the project area.			
02/13-12/13	Principal Investigator. Cambridge Energy Floating Liquefied Natural Gas (FLNG) Facility, Plaquemines Parish, Louisiana. Cambridge Energy, LLC is proposing the construction and operation of a FLNG facility on the Mississippi River in Plaquemines Parish, Louisiana Cambridge Energy contracted GSRC for the preparation of resource reports with sufficient information and analysis for the preparation of an EIS. The selected area of potential effect (APE) includes dredging from the navigation channel of the Mississippi River into the batture and natural levee on the east bank of the river across from Venice, Louisiana. A portion of the facility extends eastward into the coastal marsh. The cultural resources portion of the investigation involved a terrestrial survey of the high ground portions of the APE, a fan boat inspection of the marsh portion of the APE, and a marine remote sensing survey of the proposed area of dredge activity in the Mississippi River channel. Dr. Somers was responsible for			

	coordination with the Louisiana SHPO, background research, assessing required research needs given the fluvial, terrestrial, and marsh landscape, conducting the terrestrial and marsh fieldwork, coordinating with a team of marine archaeologists to perform the marine remote sensing survey, and synthesizing all data collected into the required reports for the project. No cultural resources were discovered in the initial field surveys of the APE.
08/10-11/12	Principal Investigator. Phase I Cultural Resources Survey for the Proposed Improvements to the New Orleans to Venice Levee Protection Project, Plaquemines Parish, Louisiana, USACE, Vicksburg District Dr. Somers served as the principal investigator for the Phase I cultural resources survey of approximately 4,208 acres distributed along linear corridors flanking 86.8 miles of the Federal Mississippi River Levee and back levees in lower Plaquemines Parish, Louisiana. The project included restoring, armoring, and accelerated completion of the existing Federal levees on the east bank from Phoenix to Bohemia (15.8 miles of back levee) and on the west bank from St. Jude to Venice (37 miles of back levee and 34 miles of Mississippi River levee) to provide the authorized design grade for storm risk reduction. The project APE included Mississippi River Batture, which is the protected land between the levees and coastal marsh on the outside of the back levees. The investigation resulted in the recovery of several thousand artifacts and the recording of 43 newly discovered Historic period sites. Of the 43 newly recorded sites, examination of field data and laboratory analysis of artifacts resulted in recommendation of one site as eligible, 29 sites as ineligible, and 13 sites of undetermined eligibility for the NRHP.
09/13-03/17	Project Manager/Principal Investigator. Naval Air Station (NAS) Meridian Phase II Archaeological Evaluation of Sites 22LD693 and 22LD697, Lauderdale County, Mississippi Dr. Somers provided overall administrative oversight for the project, including scheduling; cost management; recruiting, hiring, and supervising necessary personnel; and coordinating with the NAVFAC SE Technical Representative and Cultural Resource Manager at NAS Meridian. Additionally, Dr. Somers served as Principal Investigator, developing the work plan for the investigation, supervising, and participating in fieldwork, and preparing the technical report and Powerpoint™ presentation. This project was conducted under Section 110 of the NHPA of 1966, and with its implementing regulations (16 United States Code [U.S.C.] 470h-2[a]). The investigation included an archaeological survey with shovel testing along transects within an area of 2.7 acres for site 22LD693 and 3.66 acres for site 22LD697 to relocate and delineate the boundaries of the sites. Once the sites were relocated, additional shovel testing was conducted to further define the horizontal and vertical site boundaries and to determine concentration areas of cultural material. Test units measuring 1 meter (m) by 1 m wide and 1 m below ground surface were excavated at each site. This investigation revealed that sites 22LD693 and 22LD697 consist of sparse scatters of prehistoric artifacts. As sparse artifact scatters, sites 22LD693 and 22LD697 do not possess the data necessary to determine association with Criteria A, B, or C, but could contribute information pertaining to Criterion D. However, neither site exhibited the potential for cohesive cultural deposits that would indicate a significant cultural presence or activities from which additional information could be obtained. Further, considering the limited nature of findings from this investigation combined with those from the previous investigation of the sites, the information potential for sites 22LD693 and 22LD697 has been exhausted. It was recommended that the NRHP determination for these two sites as not eligible was appropriate and no further work is warranted.

Firm employed by: WGI, Inc.



Name	William “Bill” Evans, PE, AICP	Years of relevant experience with this employer	5
Title	PD&E Market Leader	Years of relevant experience with other employer(s)	38
Degree(s) / Years / Specialization	BS / 1987 / Civil Engineering		
Active registration number/state/expiration date	PE.0040228 / Louisiana / 03-31-2028		
Year registered	2015	Discipline	Civil
Contract role(s) / brief description of responsibilities	Roadway and Hydraulic		



Bill is a senior transportation project manager actively engaged in leading WGI consultant teams through complex FDOT PD&E studies on major interstates, managed lane studies, and arterial highways. Bill’s comprehensive understanding of planning, environmental effects analysis, design, and construction creates successful alternative solutions for solving local and regional transportation needs. He also has extensive experience running public involvement programs and working with community leaders to gain consensus.

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).
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10/22-06/25

CR 510 PD&E from 58th Avenue to US 1, Various Florida Counties, FL

Bill was the project manager and directed all project activities, coordinating with state, federal, and local agencies and leading public workshops. This six-mile county road project evaluated multiple alternatives to widen and reconstruct CR 510 (Wabasso Road) from CR 512 to the Indian River bridge. The project reconstructed the existing two-lane rural roadway to a four-lane divided suburban roadway. The corridor included bridges, box culverts, and a railroad crossing. The primary project goal was to develop publicly acceptable solutions to minimize harm to adjacent scrub jay conservation lands, wetlands, and the Indian River lagoon. The preferred alternative became the new standard for multi-lane divided highways. The environmental document was a Type 2 Categorical Exclusion.

As Project Manager, Bill Evans' responsibilities were as follows:

- Directed all project activities
- Coordinating with state, federal, and local agencies
- Led public workshops

06/19-06/23

SR 865 (San Carlos Boulevard) from North of Crescent Street to North of Hurricane Pass Bridge, Lee County, FL

San Carlos Boulevard is the main access to Fort Myers Beach. The project involved milling and resurfacing one mile of roadway to reconfigure lane widths and add dedicated bicycle lanes in both directions. The Matanzas Pass Bridge was modified to expand the sidewalk into a barrier-protected shared-use path, and the Hurricane Pass Bridge was reconfigured to improve pedestrian access on both sides. In coordination with Lee County, LeeTran, and the Town of Fort Myers Beach, the design incorporated the Seafarers alternative at Fifth Street and Estero Boulevard to improve pedestrian safety and transit operations, including two new bus bays for beach trolleys and trams. The project required FDEP permitting for work within the Coastal Construction Control Line and was completed alongside the PD&E study with a Type 2 Categorical Exclusion.

	Improvements also included new traffic signals, intersection upgrades, a fiber-based ATMS extension with CCTV coverage, upgraded ITS and lighting systems, and wildlife-sensitive lighting with sea turtle–friendly luminaires. <u>As Project Manager, Bill Evans' responsibilities were as follows:</u> • Directed all project activities • Coordinating with state, federal, and local agencies
10/18-10/24	Taylor Road Shared-Use Path PD&E Study from US 41 to Airport Road, Charlotte County, FL The scope of the project development and environment (PD&E) study was to evaluate pedestrian and bicyclist accommodations on a shared-use path along approximately 3.5 miles of Taylor Road in Punta Gorda. The project was divided into two planned design segments: Segment 1 from Jones Loop Road to Airport Road, and Segment 2 from US 41 to Jones Loop Road. The study evaluated bridge-crossing alternatives at Alligator Creek and North Fork Alligator Creek. Services included contamination assessment, cultural/historical resources evaluation, natural resources evaluation, and Section 4(f) determination for the Alligator Creek Blueway Trail. The team coordinated the preferred alternative selection with Charlotte County, the City of Punta Gorda, and the Charlotte County-Punta Gorda Metropolitan Planning Organization (MPO). <u>As Project Manager, Bill Evans' responsibilities were as follows:</u> • Directed all project activities • Coordinating with state, federal, and local agencies
04/22-12/24	SR 5/US 1 at Aviation Boulevard PD&E, Indian River County, FL Bill led the PD&E team, engineering analysis, and public involvement program for a key arterial serving Vero Beach Airport and connecting the City of Vero Beach and the Town of Sebastian. The study evaluated nine at-grade and grade-separated alternatives for the FEC Railroad crossing on Aviation Boulevard, including depressed roadway, roundabout, and quadrant intersection concepts. Extensive stakeholder coordination supported alternative development and right-of-way analysis, including connections to planned medical and hospital access improvements. The project included FAA runway protection zone analysis and Section 4(f) evaluation and was completed as a Type 2 Categorical Exclusion. <u>As Project Manager, Bill Evans' responsibilities were as follows:</u> • Led the PD&E team • Performed engineering analysis • Led public involvement program
10/21-12/25	Clint Moore Jeffery Street FEC RR Crossing, Palm Beach County, FL Bill led the team and client through the feasibility study and FDOT Railroad Crossing Open/Closure process and managed the traffic network analysis. The feasibility study extends Jeffery Street/Clint Moore Road from east of the I-95 bridge to Federal Highway to improve mobility across the I-95 corridor. The extension of Jeffery Street requires coordination with FDOT to complete the railroad opening and closure permit process. Technical studies include traffic forecasting, level of service analysis, environmental impact analysis, community outreach, and agency coordination. <u>As Project Manager, Bill Evans' responsibilities were as follows:</u> • Led the team and client through the feasibility study and FDOT Railroad Crossing Open/Closure process • Manages traffic network analysis

Firm employed by: WGI, Inc.				WGI	
Name	David Gerber, PE		Years of relevant experience with this employer	14	
Title	Project Manager II		Years of relevant experience with other employer(s)	0	
Degree(s) / Years / Specialization			BS / 2011 / Civil Engineering		
Active registration number/state/expiration date			PE.82446 / Florida / 2-28-2027		
Year registered	2017	Discipline	Civil		
Contract role(s) / brief description of responsibilities			Project Engineer		
David is an integral senior project engineer on a wide range of roadway projects, including interstate and arterial design. He contributes to the success of multiple conventional and design-build projects. David has worked his entire career in South Florida delivering on a variety of projects primarily for FDOT District 4 and Florida's Turnpike Enterprise. David has also gained considerable project management experience over his career at WGI whether as a deputy project manager or design phase manager on larger projects and has a significant understanding of District 4's policies and procedures.					
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).				
06/20 - Present	SH 195 at Ronald Reagan Boulevard, Williamson County, TX The existing SH 195 facility is a high-speed, four-lane, divided roadway that passes over Ronald Reagan Boulevard on a bridge structure. Access between the two roadways is provided with turn lanes and median crossings via Rattlesnake Road. The project includes preparing a route and design study to consider adding a northbound exit ramp from SH 195 to Ronald Reagan with a T-intersection, adding an auxiliary lane for northbound traffic in advance of the new exit ramp, removing the existing median crossing and deceleration lanes, replacing the current intersection of Rattlesnake Road with SH 195 by adding southbound exit and entrance ramps, and adding improved signage and illumination for these improvements and for the existing northern intersection of SH 195 at Rattlesnake Road. Surveying, geotechnical, environmental, roadway, traffic engineering, drainage, retaining wall design, and construction phase services are all included in the project's final design. <u>As a Roadway Engineer, David Gerber's responsibilities were as follows:</u> • Horizontal and vertical geometry • Roadway typical sections • Construction sequencing • Traffic control plans • Signing and pavement marking • Specification development • Cost estimation				
01/19 - Present	Lockwood and Dignowity Parks, CoSA 2017-2022 Bond, Bexar County, TX This project included preparing schematic civil plans for combining Dignowity and Lockwood parks and the roadways around the park, including complete street features for bike lanes, wider sidewalks, and parallel parking. WGI coordinated with local				

	utilities to bury the overhead electric lines around the park to assist in visual accessibility and enhance views from the park toward downtown. During detailed design, our team prepared construction plans to incorporate improvements that fit the budget approved for the bond program. The design included a new dog park, over 1,000 linear feet of sidewalks, improved sidewalk connectivity to adjacent streets, upgraded playground and equipment, an upgraded irrigation system, improved parking and vehicular access, closure of Burnet Street bisecting the existing parks, and water and sanitary sewer utility upgrades to service the new park features. Our team coordinated with CPS Energy, San Antonio Water System, the City, and neighborhood stakeholders to ensure implementation measures met the local standards. The upgraded features and improved safety make the park an attraction for multiple users. Our design also allows for beneficial feature expansion in the future. The team coordinated with multiple agencies and City departments to obtain additional funding for the park, including a request from a tax increment reinvestment zone. <u>As a Roadway Engineer David Gerber's responsibilities were as follows:</u> • Horizontal and vertical geometry • Roadway typical sections • Construction sequencing • Traffic control plans • Signing and pavement marking • Specification development • Cost estimation
04/22 – 04/24	SR 5/US 1 at Aviation Boulevard PD&E, Indian River County, FL This project is a key arterial for the Vero Beach Airport and the connection between the City of Vero Beach and the Town of Sebastian. The study evaluated nine at-grade and grade-separated intersection alternatives for the FEC RR crossing on Aviation Blvd. Alternatives included depressed roadway sections, roundabouts, and quadrant intersection designs. Extensive local stakeholder outreach was required to facilitate right-of-way impact analysis and connections to the county's extension of Aviation Boulevard to medical services and hospitals. The team conducted a Runway Protection Zone analysis and Section 4(f) impact analysis type 2 Categorical Exclusion. <u>As a Roadway Engineer, David Gerber's responsibilities were as follows:</u> • Shared-use path evaluation • Eight roadway alternatives evaluation to address the main issues.
09/14 – 09/17	SR 710 Reconstruction from Palm Beach County Line to Pratt Whitney Entrance Design-Build, Palm Beach County, FL The six-mile roadway reconstruction project reconfigured the SR 710/CR 706 (Indiantown Road) intersection, combining free-flow and proposed signalized movements. Other improvements included the design of dry detention stormwater management facilities parallel and adjacent to SR 710 and the bridge approaches, as well as outfall control structures, signing and pavement markings, a new traffic signal at the SR 710/CR 706 (Indiantown Road) intersection, and street lighting. <u>As a Roadway Engineer, David Gerber's responsibilities were as follows:</u> • Roadway and TCP design

Firm employed by: WGI, Inc.



Name	Corey Hill, PE	Years of relevant experience with this employer	14
Title	Senior Project Manager I	Years of relevant experience with other employer(s)	14
Degree(s) / Years / Specialization	MS / 2013 / Structural Engineering BS / 2005 / Civil Engineering Technology		
Active registration number/state/expiration date	PE.80438 / Florida / 2-28-2027		
Year registered	2016	Discipline	Civil
Contract role(s) / brief description of responsibilities	Project Engineer		



Corey has extensive experience as a roadway and traffic engineer on state and municipal projects, in addition to serving as project manager on continuing services contract task work orders and standalone conventional projects. He has played an integral role in developing roadway, traffic control, signing and pavement marking, and signalization plans for FDOT. He has quickly established a reputation for consistently completing projects with outstanding quality. Corey is well-versed in adhering to appropriate design standards and is fully trained in the latest MicroStation software, including OpenRoads. His project experience for Florida's Turnpike Enterprise ranges from engineer of record roles on resurfacing assignments to the largest and most complex limited access capacity improvements and managed lanes projects let for construction in recent years. More recently, Corey has executed as project manager a conventional project for Florida's Turnpike with a construction value of \$115M.

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).
08/14 - Present	SR 7 (US 441) Widening Design-Build from Fillmore Street to South of Stirling Road, Broward County, FL Corey was responsible for roadway geometric design, intersection improvements, pedestrian facilities, temporary traffic control, signing and pavement marking design, quantity computations, and plan production, including construction-phase plan revisions. The \$32M project widened a 2.1-mile urban arterial from five to six lanes and included drainage and utility relocations and coordination of right-of-way acquisition for over 40 parcels. <u>As Project Engineer, Corey Hill's responsibilities were as follows:</u> • Roadway geometric design • Intersection improvements • Pedestrian facilities • Temporary traffic control • Signing and pavement marking design • Quantity computations • Plan production
03/12-06/16	Turnpike Mainline Widening with Express Lanes from Osceola Parkway to the Beachline Expressway, Orange County, FL Corey was responsible for roadway geometric design, signing and pavement marking design, thermoplastic pavement marking plans, quantity computations, and plan production, and led coordination of ERC comments, pavement design report

	development, variation/exception reports, and the project public information effort. The project included widening Florida's Turnpike, reconstructing major interchange ramps at SR 417, and replacing multiple bridge structures. Additional improvements included drainage, lighting, ITS upgrades, and tolling facilities to support express lane operations. <u>As Project Engineer, Corey Hill's responsibilities were as follows:</u> • Roadway geometric design • Signing and pavement marking design • Thermoplastic pavement marking plans • Quantity computations • Plan production
09/19-09/21	Western Beltway (SR 429) Resurfacing and Safety Improvements from MP 1.9 to 5.5, Osceola County, FL Corey was responsible for roadway design, signing and pavement marking design, typical section development, pavement design report, variation and exception reports, specifications package, quantity computations, and plan production, and led project progress meetings and post-design support, including shop drawings and RFIs. The project included resurfacing and safety improvements along SR 429 with upgrades to drainage, lighting, ITS, and roadway appurtenances. <u>As Engineer -of-Record, Corey Hill's responsibilities were as follows:</u> • Roadway design • Signing and pavement marking design • Typical section development • Pavement design report • Variation and exception reports • Plan production
10/19- Present	Turnpike Mainline AET Conversion - Phase 5A, Palm Beach and Broward Counties, FL Corey was responsible for roadway geometric design, signing and pavement marking design, and plan production for the widening of the HEFT (SR 821) from SR 836 to NW 106th Street. He supported the development of the typical section package, pavement design report, and variation/exception reports, and assisted with ERC comment incorporation. The project included widening to ten lanes with express lanes and major interchange improvements at SR 836 and NW 41st Street, along with associated roadway, drainage, structures, and ITS upgrades. <u>As Project Engineer, Corey Hill's responsibilities were as follows:</u> • Geometric design • Signing and pavement marking design • Plan production

Firm employed by: WGI, Inc.				WGI	
Name	Jeremiah Slaymaker, PSM		Years of relevant experience with this employer	14	
Title	Director, Geospatial		Years of relevant experience with other employer(s)	31	
Degree(s) / Years / Specialization		BS / 1997 / Survey and Mapping			
Active registration number/state/expiration date		PLS.0005155 / Louisiana / 9-30-2026			
Year registered	2016	Discipline	Survey		
Contract role(s) / brief description of responsibilities			Project Surveyor		
Jeremiah has extensive knowledge and a hands-on approach to managing and supporting team members in the field and office. He successfully manages projects throughout the southeastern United States and has partnered with various federal, state, and local government agencies, private firms, and landowners. Jeremiah is proficient in identifying the appropriate methodologies and the latest technology needed (lidar and unmanned aerial vehicles). He is directly responsible for all WGI geospatial and subsurface utility engineering (SUE) activities in North Florida, including daily coordination with field crews and overseeing office production (post-processing raw field data, creating detailed maps, legal descriptions, and 3D models). Jeremiah's proactive management style focuses on quality, communication, and determination to succeed. Not only has he earned the respect of his staff and colleagues, but more importantly, he has developed and maintained strong, career-long client relationships.					
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).				
10/17-11/17	Overton Brooks VAMC Survey, Caddo, LA Jeremiah was responsible for project oversight and coordination. WGI performed a topographic survey depicting one-foot contours, set site benchmarks, and performed a Quality Level “C” SUE investigation near Building 33 and Building 4 to assist with the replacement and upgrade to the electric switch gear. All SUE work was done in accordance with the Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data as outlined in ASCE 38-02. Crews coordinated with on-site contractors and maintenance personnel to find as-built information on underground utilities within the project area. Existing electric service boxes were surveyed to provide the engineer of record with enough information to design connections to the existing electric lines. Site clearance was also required to conduct the topographic survey in the proposed electric upgrade area. <u>As Project Manager, Jeremiah Slaymaker's responsibilities were as follows:</u> • Project oversight • Coordination				
11/17-12/22	180th Street Over Little River Bridge Replacement PD&E Survey Support, Suwannee County, FL Jeremiah was responsible for managing and overseeing the design survey deliverable as well as right-of-way mapping. The Little River Bridge is a historic bridge with multiple large arching culverts with stone siding in a rural area of Suwannee County, just east of McAlpin. Traveling through the bridge is a rural two-lane asphalt highway with a small winding river passing underneath. WGI has the opportunity to provide topographic survey services for the Project Development and Environment (PD&E) study of Little River Bridge. Upon inspection, the bridge showed signs of structural deficiencies that				

	needed improvement. The project included a bridge detail survey of the unique structure, a topographic survey of the adjoining roadway, as well as multiple cross sections along Little River. This allowed engineers to properly determine the best course of action to design this bridge. <u>As Project Manager, Jeremiah Slaymaker's responsibilities were as follows:</u> Managed and oversaw the design survey deliverables and right-of-way mapping
12/19-12/20	Sebastian Inlet Bridge Hydro Survey, Indian River County, FL WGI provided an evaluation of both the north and south jetty at the Sebastian Inlet to assess the sustained damage from Hurricane Matthew. A report documenting the observed conditions, including photographs and recommendations for repairs, was prepared for the District. The jetty sustained minimal damage. Concrete restoration and open grating replacement plans and specifications were prepared to correct the minor damage caused by a significant wind and wave event on the Atlantic Ocean. WGI staff designed the jetty rehabilitation project in 2004. The rehabilitation project included a study of the wave climate and replacement of the jetty piling and deck surface to properly encapsulate the rock in the crib portion of the jetty. The large granite boulders provide a vital component needed to dissipate the wave energy and create a safe inlet for boaters. To increase the jetty's usefulness as a recreation facility, a breaking wave-resistant railing system was designed so that the jetty could be used for recreational fishing. In addition, an expanded eastern terminal was created to increase the area for fishing. This added amenity provides a major attraction to the Sebastian Inlet State Park. It is a tremendous draw for tourists and locals, giving them a safe, prime fishing spot in the Atlantic Ocean. <u>As Project Manager, Jeremiah Slaymaker's responsibilities were as follows:</u> Managed and oversaw the design survey deliverables and right-of-way mapping
11/20-03/21	CR 664 Bridge Over Peace Creek Bridge Survey Services, Polk County, FL Jeremiah served as Principal for this bridge replacement survey project along approximately 2,000 feet of CR 664. WGI provided topographic, hydrographic, and right-of-way control surveys to support the design of a replacement bridge over Peace Creek. Due to significant seasonal water-level increases, the team utilized a remote-controlled Z-Boat to collect detailed hydrographic data and develop river-bottom contours and channel mapping. WGI also prepared a right-of-way control survey to support anticipated property acquisition for a temporary bridge during construction. <u>As Project Manager, Jeremiah Slaymaker's responsibilities were as follows:</u> Managed and oversaw the design survey deliverables and right-of-way mapping
02/21-04/21	SR 93 from N of SR 80 to Top of Caloosahatchee River Bridge Survey Services, Lee County, FL Jeremiah served as Principal for this project that included terrestrial mobile LiDAR of a portion of I-75 over the Caloosahatchee River. Using TML to collect pavement elevations allowed FDOT engineers to design updates to the existing drainage system to reduce ponding on the roadway. This project included terrestrial mobile LiDAR of a portion of I-75 over the Caloosahatchee River. Using TML to collect pavement elevations allowed FDOT engineers to design updates to the existing drainage system to reduce ponding on the roadway. <u>As Project Manager, Jeremiah Slaymaker's responsibilities were as follows:</u> Managed and oversaw the design survey deliverables and right-of-way mapping

Firm employed by: WGI, Inc.



Name	Michael “Mike” Mills, PE		Years of relevant experience with this employer	2
Title	VP, Stormwater Resources		Years of relevant experience with other employer(s)	39
Degree(s) / Years / Specialization			BS / 1985 / Civil Engineering	
Active registration number/state/expiration date			PE.0005155 / Florida / 2-28-2027	
Year registered	1990	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Project Engineer	





Mike has over 39 years of experience in transportation and civil engineering, including stormwater design, water/wastewater, roadway, site civil, and permitting. He specializes in comprehensive surface water management methods and computer modeling programs for hydrologic/hydraulic analyses necessary for stormwater and environmental permitting of large-scale projects. Mike is an expert in designing stormwater management facilities and storm sewers and performing bridge hydraulics and scour evaluations utilizing the methods described in HEC-18 and HEC-20 for use in bridge design for FDOT. His extensive permitting experience includes construction and conceptual permits for multiple water management districts, the US Army Corps of Engineers, the Florida Department of Environmental Protection, and FDOT. Mike has also completed right-of-way use and drainage connection permits, Federal Emergency Management Agency (FEMA) letters of map amendments and letters of map revisions, and municipal and local government permits.

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).
02/20-02/23	South Sumter Trail SR 471 from SR 50 to CR 478, Sumter County, FL Mike was responsible for project delivery. This project included 4.8 miles of a 12-foot shared-use path in Sumter County. The environmentally sound design focused primarily on providing a safe trail with minimal environmental impact, maximizing access and connectivity while accommodating future maintenance. The team performed watershed modeling of the Gant Lake Basin to demonstrate that the trail did not adversely affect the existing floodplain within the project corridor. The model included three separate channels that passed through the project limits. Sumter County and the Southwest Florida Water Management District completed floodplain reviews and approvals. <u>As Drainage Engineer of Record, Mike Mills' responsibilities were as follows:</u> • Project delivery • Drainage design • Watershed modeling
06/21-06/26	Districtwide Stormwater Program, Various Counties, FL Mike was the project manager/principal in charge of three consecutive five-year task-work-order-driven contracts. Task assignments included numerous drainage complaint investigations throughout the District, bridge hydraulics, pond siting, miscellaneous drainage designs, drainage plans, report writing, and basic maintenance of FDOT's geographic information

	system (GIS) drainage database. Mike also performed reviews of reports/plans submitted to the FDOT, including water quality sampling reports and groundwater mounding analyses. <u>As Drainage Engineer of Record, Mike Mills' responsibilities were as follows:</u> • Project delivery • Drainage design
09/19-08/22	Crystal Beach Roadway and Drainage Improvements, Pinellas County, FL Mike oversaw the design & plans development for the roadway reconstruction/realignment and drainage systems, and water quality improvements. Work included stormwater design, drainage plans, drainage design documentation, and peer review for the project. <u>As Drainage Engineer of Record, Mike Mills' responsibilities were as follows:</u> • Oversaw the design and plan development for roadway reconstruction/realignment and drainage systems
11/18-11/23	Roadway, Drainage, Structural, Civil, and Traffic Contract, Pinellas County, FL Mike was the project manager and chief engineer for this county-wide contract (three cycles). Task assignments include roadway drainage and safety improvements, sidewalks, trails, and resurfacings. Specially noted tasks included the reconstruction of the 38th Avenue stormwater pump system, Alligator Creek bank stabilization, and the Lealman regional stormwater facility. <u>As Drainage Engineer of Record, Mike Mills' responsibilities were as follows:</u> • Project delivery • Drainage design
04/20-04/25	SR 35 (US 98) Design-Build from North of Socrum Loop Road to South of CR 54, Sarasota County, FL Mike was the drainage principal for this design-build project, which reconstructed the existing two-lane, two-way facility into a four-lane divided roadway with suburban and rural characteristics within the project limits. The project design added multilane roundabouts at Big Cypress Boulevard and SR 471 and a signalized intersection at US 98 and Rock Ridge Road. This project also included constructing shared-use paths, wildlife crossings, U-turn loops, bridge culverts, and multiple stormwater management facilities. <u>As Drainage Engineer of Record, Mike Mills' responsibilities were as follows:</u> • Project delivery • Drainage design

Firm employed by: WGI, Inc.



Name	Brett Fuller, PE, PTOE, RSP1		Years of relevant experience with this employer	15
Title	Senior Project Manager I		Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization			ME / 2008 / Structural Engineering BS / 2006 / Civil Engineering	
Active registration number/state/expiration date			PE.78486 / Florida / 2-28-2027	
Year registered	2015	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Project Engineer	



Brett brings our team comprehensive experience in planning and final engineering design of major/minor roadway facilities. He has extensive knowledge of plan production, vertical and horizontal geometric design, intersection design, signing and pavement marking, including GuideSIGN, signalization, traffic forecasting and modeling, and quantity and cost analysis. His expertise in roadway design software includes MicroStation V8i and GEOPAK. Brett is also experienced in intersection and corridor lighting design and AGi32 photometric analysis software.

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).
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04/12 - Present	Turnpike Mainline AET Conversion - Phase 5A, Palm Beach and Broward Counties, FL This project involved the All-Electronic Tolling (AET) conversion of Florida’s Turnpike (SR 91) from I-595 to south of the Lantana Mainline Toll Plaza, a distance of approximately 33 miles. Improvements required the modification of the existing toll plazas at one mainline location and nine interchange ramp locations. The team corrected existing geometric deficiencies near these toll plaza sites to accommodate the higher operating conditions expected when AET was implemented. This project also included operational improvements at the Commercial Boulevard, Sample Road, and Glades Road interchanges; widening of the northbound SR 91 bridge over Glades Road; milling and resurfacing in all areas slated for improvement; signing and pavement markings; lighting modifications; landscaping enhancements; modifications at two administrative buildings; the addition of Advanced Distribution Management System (ADMS) signs; and Intelligent Transportation Systems (ITS) improvements necessary for AET operations. <u>As a Project Engineer, Brett's responsibilities were as follows:</u> • Signing and pavement marking plan sets • Designed Traffic Control Details
12/11 - Present	Orlando South Interchange Modification at MP 254, Orange County, FL This project consisted of modifications to the Orlando South interchange of Florida’s Turnpike, whereby the existing turnpike ramp to the northbound US 441/US 17-92/Orange Blossom Trail entrance ramp was widened from a single lane to a triple lane movement, forcing the creation of a new at-grade intersection. This new intersection on Orange Blossom Trail was signalized to control the ramp and northbound US 441 lane movements. Ramp widening impacted two overhead sign trusses along the ramp prior to the widening. Drainage modifications and upgrades to the signing and pavement markings were also required. <u>As an Engineer, Brett's responsibilities were as follows:</u>

	• Signing and pavement marking plan sets • Designed Traffic Control Details
07/11 – 02/13	Indiantown Road Interchange Improvements, Palm Beach County, FL This project involved improvements to two specific areas at the “trumpet” style Turnpike/Indiantown Road interchange. The deceleration lane and the initial curve of the northbound exit ramp were improved to accommodate a 50 mph design speed. Also, the toll plaza roadway and Indiantown Road intersection were enhanced by modifying the lane assignments for the north approach to accommodate a triple left. Creating a triple left required pavement widening on the east approach, signing and pavement marking improvements, and milling and resurfacing on eastbound Indiantown Road east of the intersection. Other items associated with these improvements include ITS facility relocations and modifications to the existing signage, drainage, signalization, and lighting. <u>As Engineer of Record, Brett's responsibilities were as follows:</u> • Signalization design and plan set
04/19 – 10/19	US 301 at Rutland Road (CR 675) Signalization Installation, Manatee County, FL As part of the FDOT District 1 Design-Build Push-Button contract, this task included the removal of a flashing beacon signal assembly and design of a new box span signal configuration at the intersection of US 301 and Rutland Road (CR 675). To increase safety, the intersection was converted from a 4-leg to a T-intersection, removing access from 69th Street E. to US 301. The box span signal configuration was designed to accommodate the future expansion of the intersection. Other elements of work included milling and resurfacing, drainage modifications, SUE, design, and right-of-way survey, geotechnical exploration, and signing and pavement marking. <u>As Roadway Engineer of Record, Brett's responsibilities were as follows:</u> • QA/QC Review
12/20 – 12/21	SR 17 at Mountain Lake Cutoff Road Signalization, Polk County, FL Under the D1 Design-Build Pushbutton contract, this task work order (TWO) converted the existing stop-controlled flashing beacon to a fully signalized intersection at SR 17 and Mountain Lake Cutoff Road. Other elements of work included pavement widening to realign the westbound through movement through the intersection; milling and resurfacing of Mountain Lake Cutoff Road; signing and marking upgrades to reflect the new alignment and signal conversion; loop and dilemma zone detection; and intersection lighting design. <u>As a Roadway Engineer, Brett's responsibilities were as follows:</u> • QA/QC Reviews

Firm employed by: WGI, Inc.					WGI	
Name	Keegan Larson, PE		Years of relevant experience with this employer	22		
Title	VP, Transportation Roadway		Years of relevant experience with other employer(s)	0		
Degree(s) / Years / Specialization		BS / 2003 / Civil Engineering				
Active registration number/state/expiration date		PE.69176 / Florida / 2-28-2027				
Year registered	2009	Discipline	Civil			
Contract role(s) / brief description of responsibilities			Project Engineer			
Since beginning his career in 2004 with WGI, Keegan has worked on various roadway design projects for FDOT. He has developed an extensive range of project management skills and a diverse background in several transportation-related disciplines, including roadway design, temporary traffic control, signing and marking, signalization, tolling facilities, and intelligent transportation systems (ITS). Keegan has amassed an impressive resume of FDOT District 4 experience, from conventional project delivery to project management of design-builds to contract management on four separate districtwide or continuing services contracts. With that experience has come a significant amount of institutional knowledge of the District's project delivery policies, processes, procedures, and lessons learned.						
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).					
06/20 – Present	SH 195 at Ronald Reagan Boulevard, Williamson County, TX The existing SH 195 facility is a high-speed, four-lane, divided roadway that passes over Ronald Reagan Boulevard on a bridge structure. Access between the two roadways is provided with turn lanes and median crossings via Rattlesnake Road. The project includes preparing a route and design study to consider adding a northbound exit ramp from SH 195 to Ronald Reagan with a T-intersection, adding an auxiliary lane for northbound traffic in advance of the new exit ramp, removing the existing median crossing and deceleration lanes, replacing the current intersection of Rattlesnake Road with SH 195 by adding southbound exit and entrance ramps, and adding improved signage and illumination for these improvements and for the existing northern intersection of SH 195 at Rattlesnake Road. Surveying, geotechnical, environmental, roadway, traffic engineering, drainage, retaining wall design, and construction phase services are all included in the project's final design. <u>As a Project Engineer, Keegan's responsibilities were as follows:</u> • QA/QC Reviews					
11/16 – 01/17	Prairie Road over Lake Worth Drainage District L-8 Canal Bridge Replacement, Palm Beach County, FL WGI provided design services for the replacement of the existing bridge at Prairie Road over the L-8 Canal. The bridge accommodates two 11-foot traffic lanes, a four-foot bike lane, and a six-foot sidewalk on each side, meeting current traffic safety and legal load standards. Limits of roadway pavement improvements in the vicinity of the bridge replacement extend approximately 300 feet. The bridge was designed as a single-span structure meeting the low member and minimum span requirements as dictated by the Lake Worth Drainage District (LWDD). Utility ducts were placed in the sidewalks for communication cables as necessary. WGI prepared and submitted applicable permit applications to SFWMD and LWDD. WGI					

	prepared a complete drainage report with all documentation and associated calculations complying with the guidelines established by Palm Beach County Thoroughfare Road Design Procedures. WGI also provided utility coordination services. <u>As a Phase Manager, Keegan's responsibilities were as follows:</u> • Prepared roadway plans • Design signing and pavement marking
12/08 - Present	Golden Glades Sound Walls and Bridge Painting, Miami-Dade County, FL This project involved the preparation of separate sets of plans and specifications for two improvements. The first improvement included the extension of sound barrier walls (about 1,400 feet) on both sides of the Spur of Florida's Turnpike (SR 91) just north of the Golden Glades toll plaza. The second improvement included repainting of the entire structural steel superstructure of the Turnpike bridge over Miami Gardens Drive near milepost 0.55. In addition, a Class V finish was applied to the exposed concrete surfaces of the bridge, retaining walls, barrier walls, and concrete slope pavement in accordance with a color scheme previously approved by the City of Miami Gardens. <u>As a Project Engineer, Keegan's responsibilities were as follows:</u> • Developed roadway and signing and marking plans
08/08 – 05/12	Turnpike Ramp Bridge Replacement at PGA Boulevard, Palm Beach County, FL The new ramp bridge was designed to span the future eight-lane section of Florida's Turnpike and the existing Florida Gas Transmission (FGT) lines located east of the northbound lanes. Extensive coordination occurred with FGT to clear the impacts of all project improvements and the bridge construction. Additional improvements included increasing the northbound exit ramp capacity from a single lane to two lanes beyond the ramp terminal. The project's design phase scope incorporated interchange drainage, signing and pavement marking, ITS, and lighting improvements. Temporary traffic control plans were developed considering the project goals to maintain all interchange traffic during all construction phases and avoid disruption to toll collection operations at the interchange's toll plaza. <u>As Project Manager, Keegan's responsibilities were as follows:</u> • Design plans and preparations during the construction phase
01/24 – Present	SUN Trail Florida East Coast Railroad Overpass (Pedestrian Bridge), St. Lucie County, FL WGI provided the design and survey for the non-motorized shared-use path bridge over the FEC Railroad. The project is located in St. Lucie County, beginning at the northern terminus of the Savannas Recreation Area North Trail and ending at the southern terminus of the Indian Hills Recreation Area Trail. This location is heavily wooded with limited access for vehicles and construction equipment. Design services include roadway, drainage, structures, environmental, and utility coordination. The scope of the project is divided into two phases. Phase 1 included the Bridge Design Report (BDR) and an ecological and constructability assessment. The recommended concept was for a 236' single-span, steel plate girder bridge spanning the FEC right-of-way. The bridge has a 23.5' minimum vertical clearance and two switchback ADA approach ramps connecting the bridge to the existing ground. The team will utilize avoidance and mitigation techniques for environmental impacts and permitting, and safety improvement plans will be provided to the railroad. <u>As a Principal, Keegan's responsibilities were as follows:</u> • Project Oversight

Firm employed by: WGI, Inc.				WGI	
Name	William Schier, PE		Years of relevant experience with this employer	17	
Title	VP, Chief Marketing Officer		Years of relevant experience with other employer(s)	5	
Degree(s) / Years / Specialization		BS / 2004 / Civil Engineering			
Active registration number/state/expiration date		PE.43079 / Louisiana / 03-31-2027			
Year registered	2018	Discipline	SUE		
Contract role(s) / brief description of responsibilities		Project Engineer Satisfies MPR #8.			
Will serves as vice president, chief marketing officer, and is the champion of WGI's nationwide branding and promotion functions, including all online and digital promotions, print production, and event promotions. Will is the former CEO and founder of BIG RED DOG, a Texas-based consulting firm that grew to over 100 professionals and was acquired by WGI in January of 2019. Will has a Bachelor of Science in Civil Engineering from Purdue University.					
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).				
10/07 – 12/10	Langley 48-Inch Waterline, Lakeline Blvd, Austin, TX Will performed civil engineering design for 7,900 linear feet of 48-inch ductile iron waterline within the right-of-way of Lakeline Boulevard and Lake Creek Parkway. Work included utility investigation, design coordination within active arterial corridors, and construction phase services including bidding support and payment application review. <u>As a Project Engineer, Will's responsibilities were as follows:</u> • Civil design of large-diameter waterline within arterial ROW • Utility investigation and horizontal/vertical alignment coordination • Construction administration, including pay application review • Coordination with Austin Utility Coordination Commission				
10/07 – 05/11	MLK Jr. Metro Rail Station and Alexander Avenue Extension, Austin, TX Will performed civil engineering design and construction administration for the extension of Alexander Avenue and E. 17th Street, including associated water, drainage, and utility improvements. The project included the design of the Capital Metro MLK passenger rail station and coordination of utility relocations and approvals within an urban corridor. <u>As an Engineer, Will's responsibilities were as follows:</u> • Design of roadway, rail station, and supporting utility infrastructure • Utility conflict analysis and coordination with multiple providers • Construction administration including inspections and pay applications • Coordination for UCC approvals and permitting documentation				

	Indiantown Road Interchange Improvements, Palm Beach County, FL This project involved improvements to two specific areas at the “trumpet” style Turnpike/Indiantown Road interchange. The deceleration lane and the initial curve of the northbound exit ramp were improved to accommodate a 50 mph design speed. Also, the toll plaza roadway and Indiantown Road intersection were enhanced by modifying the lane assignments for the north approach to accommodate a triple left. Creating a triple left required pavement widening on the east approach, signing and pavement marking improvements, and milling and resurfacing on eastbound Indiantown Road east of the intersection. Other items associated with these improvements include ITS facility relocations and modifications to the existing signage, drainage, signalization, and lighting. <u>As Engineer of Record, Will’s responsibilities were as follows:</u> • Signalization design and plan set
10/12 – 04/16	South Congress Hotel, Austin, TX Will led site civil engineering design for an 82-room hotel development, including parking structure, restaurant and retail space, drainage systems, and utility infrastructure. The project included stormwater management, water quality design, and installation of new water and storm drainage utilities within public right-of-way. <u>As Project Engineer, Will's responsibilities were as follows:</u> • Full site civil design including grading, drainage, and utilities • Stormwater management and water quality design • Utility coordination and new/relocated system connections • Construction administration and inspection coordination

Firm employed by: WGI, Inc.



Name	Linda Hess, PE	Years of relevant experience with this employer	3
Title	Senior Project Manager I	Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization		MS / 2009 / Civil Engineering BS / 2008 / Civil Engineering	
Active registration number / state / expiration date		PE.80444 / Florida / 2-28-2027	
Year registered	2016	Discipline	Civil
Contract role(s) / brief description of responsibilities		Project Engineer	



Linda is an experienced transportation engineer who excels in coordinating multifaceted efforts to achieve project objectives efficiently and within budget constraints. Her comprehensive portfolio includes a wide spectrum of traffic planning and engineering tasks, including corridor studies, multimodal studies, interchange access requests, feasibility studies, intersection control evaluation (ICE), signal warrant analysis, and crash/safety analysis. Linda is well-versed in simulation modeling software, such as HCS, SYNCHRO, SIDRA, and CORSIM. These tools have enabled her to create accurate simulations and models, providing critical insights into traffic behavior and management. Moreover, her competence in geographic information systems (GIS) and MicroStation further enhances her ability to create comprehensive and data-driven solutions. Safety is always at the forefront of her project approach, with a history of conducting rigorous safety evaluations and implementing effective mitigation strategies.

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).
11/18-04/19	SR 9/I-95 at 10th Avenue North, Palm Beach County, FL Tasks included verifying design hourly traffic volumes, Synchro operational analysis for interchange and adjacent intersections, and safety analysis. The study considered and coordinated with the I-95 managed lanes master plan study. A Type I categorical exclusion was approved in September 2021. <u>As an Engineer, Linda Hess' responsibilities were as follows:</u> • Completed the IMR • Designed Diverging Diamond Interchange
03/12 - Present	I-95 from Martin/St.Lucie County Line to SR 70, St. Lucie County, FL A freight component of the study highlighted heavy truck safety issues and truck parking solutions. The I-95 study scope of work included the evaluation of operational and geometric conditions of the interstate from the Martin/St Lucie County line to SR 70, the six interchanges, and the arterial highway network to identify improvements, evaluate impacts and document the recommendations. <u>As an Engineer, Linda Hess' responsibilities were as follows:</u> • Crash data analysis • Safety improvements • Prepared crash analysis presentations during bidding and negotiations

03/14-11/16	SR 5/US 1 at Aviation Boulevard PD&E, Indian River County, FL This project is a key arterial route for the Vero Beach Airport and serves as a vital connection between the City of Vero Beach and the Town of Sebastian. The study evaluated nine alternatives for the at-grade and grade-separated intersection of the FEC railroad crossing on Aviation Boulevard. Alternatives included depressed roadway sections, roundabouts, and quadrant intersection designs. Extensive local stakeholder outreach was conducted. The runway protection zone analysis gained Federal Aviation Administration approval and public support for the project. The project completed the Type 2 Categorical Exclusion process. WGI achieved top performance grades of 4.7, 5.0, and 4.5 for quality, schedule, and management. FPID: 441693-1: This project is a key arterial for the Vero Beach Airport and the connection between the City of Vero Beach and the Town of Sebastian. The study evaluated nine at-grade and grade-separated intersection alternatives for the FEC RR crossing on Aviation Blvd. Alternatives included depressed roadway sections, roundabouts, and quadrant intersection designs. Extensive local stakeholder outreach was required to facilitate right-of-way impact analysis and connections to the county's extension of Aviation Boulevard to medical services and hospitals. The team conducted a Runway Protection Zone analysis and Section 4(f) impact analysis—type 2 Categorical Exclusion. <u>As an Engineer, Linda Hess' responsibilities were as follows:</u> • PD&E support • Public Involvement preparing presentations for the district
01/16-01/18	SE Monterey Road (SR-714)/SE Dixie Highway (SR-A1A) Shared Use Path, Martin County, FL The project involved engineering design services for a 10-foot-wide shared-use path on SE Dixie Highway, SE Monterey Road, and SE Palm Beach Road in Stuart, Florida. The shared-use path design addressed continuous and safe bicycle and pedestrian movement through the intersection drainage management, ADA-compliant roadway crossings and curb ramps, pavement markings, signage, and signalization. WGI supported Martin County in satisfying all requirements for the FDOT's LAP grant funding and supporting documentation for the LAP coordination process. The project involved engineering design services for a 10-foot-wide shared-use path on SE Dixie Highway, SE Monterey Road, and SE Palm Beach Road in Stuart, Florida. This project provided continuous pedestrian and bicycle connectivity through the SE Dixie Highway, SE Monterey Road, and SE Palm Beach Road intersection. The shared-use path replaced a six-foot-wide sidewalk along the back of the curb of the northbound lanes of SE Dixie Highway between SE Airport Road and SE Monterey Road. The shared-use path design addressed continuous and safe bicycle and pedestrian movement through the intersection drainage management, ADA-compliant roadway crossings and curb ramps, pavement markings, signage, and signalization. WGI supported Martin County in satisfying all requirements for the FDOT's Local Agency Program (LAP) grant funding, including preparing the Type 1 Categorical Exclusion Checklist and supporting documentation for the LAP coordination process. <u>As an Engineer, Linda Hess' responsibilities were as follows:</u> • Prepared type 1 categorical exclusion checklist • Public involvement • Plans development

Firm employed by: WGI, Inc.



Name	Stephen Clancy, PSM, PLS, GISP	Years of relevant experience with this employer	4
Title	VP, Geospatial Division Leader	Years of relevant experience with other employer(s)	27
Degree(s) / Years / Specialization		BS / 1998 / Geomatics	
Active registration number/state/expiration date		PLS.86630 / Louisiana / 3-31-2027	
Year registered	2011	Discipline	Survey
Contract role(s) / brief description of responsibilities		Project Surveyor	



Stephen has extensive experience in transportation asset management, linear referencing systems, GIS, lidar, global navigation satellite systems (GNSS), and traditional surveying and mapping. He has managed surveying services for engineering design and construction of large-scale infrastructure projects across the United States. His experience includes the development of project management plans, project-specific quality management plans, and International Organization for Standardization (ISO) quality management programs for surveying projects. Stephen has successfully managed transportation and utility survey projects encompassing thousands of miles, as well as large boundary surveying for land acquisition programs throughout Florida. During his career, Stephen has sought to utilize innovative geospatial technologies to enhance offerings and deliver quality projects to clients.

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).
11/17-12/22	180th Street Over Little River Bridge Replacement PD&E Survey Support, Suwannee County, FL Stephen was the project manager on this contract. The Little River Bridge is a historic bridge with multiple large arching culverts with stone siding in a rural area of Suwannee County, just east of McAlpin. Traveling through the bridge is a rural two-lane asphalt highway with a small winding river passing underneath. WGI has the opportunity to provide topographic survey services for the Project Development and Environment (PD&E) study of Little River Bridge. Upon inspection, the bridge showed signs of structural deficiencies that needed improvement. The project included a bridge detail survey of the unique structure, a topographic survey of the adjoining roadway, as well as multiple cross sections along Little River. This allowed engineers to properly determine the best course of action to design this bridge. <u>As Project Manager, Stephen Clancy's responsibilities were as follows:</u> • Survey oversight • Crew management
05/23- Present	Lake Worth Beach Professional Services – Palm Beach County, FL Stephen oversaw all activities on this continuing-services contract. WGI was selected by the City of Lake Worth Beach to provide comprehensive surveying and mapping services in support of a wide range of municipal engineering, utility, and infrastructure projects. Under this continuing services contract, WGI has completed 21 task orders that have supported roadway and drainage improvements, utility planning, site development, regulatory permitting, and capital project design. Our

	services have included boundary, topographic, utility, and right-of-way surveys; elevation and title surveys; design surveys; legal descriptions; mapping; and floodplain/National Pollutant Discharge Elimination System (NPDES) assistance. <u>As Principal, Stephen Clancy's responsibilities were as follows:</u> • Oversaw all activities
01/22-01/26	SFWMD Surveying and Mapping Services, Palm Beach County, FL Stephen serves as Principal-in-Charge for this ongoing contract supporting major water-resource, restoration, and infrastructure programs throughout SFWMD's 16-county service area. Since 2022, WGI has provided a wide range of surveying and mapping services, including boundary, topographic, right-of-way, hydrographic, control, construction layout, and as-built surveys, as well as lidar, aerial photogrammetry, laser scanning, GIS support, UAS acquisition, and SUE investigations. WGI provides project management, QA/QC, and delivery of multiple task orders on an as-needed basis. <u>As Principal, Stephen Clancy's responsibilities were as follows:</u> • Survey oversight • Crew management
11/23-03/24	Deland Industrial Land Purchase Survey, Volusia County, FL Stephen provided principal oversight for this project. WGI prepared a certified ALTA/NSPS boundary and topographic survey and performed QLB utility designation for a future substation parcel and adjacent roadway. Services included preparation of legal descriptions, easement and access identification, FEMA flood zone and zoning verification, and mapping of existing structures, improvements, encroachments, wetlands, environmentally sensitive areas, and drainage infrastructure. The survey also documented curbs, curb cuts, weirs, and utility features to support Duke Energy's land acquisition and development efforts. <u>As Principal, Stephen Clancy's responsibilities were as follows:</u> • Survey oversight • Crew management

Firm employed by Vectura Consulting Services, LLC			VECTURA
Name	Sheelagh Brin Ferlito, PE, PTOE		Years of relevant experience with this employer
Title	Supervisor-Eng		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		B.S. / 1988 / Civil Engineering	
Active registration number / state / expiration date		PE.0025383 / LA / 09-30-2027	
Year registered	1993	Discipline	Civil
Contract role(s) / brief description of responsibilities		Traffic Control Design / Temporary Traffic Signal Analysis and Design QC. Satisfies MPR #5	
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).		
07/21 - Present	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 – Present	MOVEBR New Capacity Projects Program Management (Baton Rouge, LA) Brin is the lead traffic engineer for the entire 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 – Present	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.		
02/20 – 06/25	H.010616 – I-20: LA 544 Overpass Replacement (Ruston, LA)		

	Brin was the project manager for a Level 2 Transportation Management Plan (TMP) for a new four-lane bridge over I-20 and three, two-lane roundabouts along LA 544. Brin also developed temporary traffic signal plans with multiple setup configurations for the construction of the roundabouts.
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 provided 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			VECTURA
Name	Laurence Lucius Lambert, II, PE, PTOE, PTP		Years of relevant experience with this employer
Title	Supervisor-Eng		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		B.S. / 1997 / Civil Engineering M.S. / 2006 / Civil Engineering. (Transportation focus) M.B.A. / 2010	
Active registration number / state / expiration date		PE.0029901 / LA / 03-31-2028	
Year registered	2001	Discipline	Civil
Contract role(s) / brief description of responsibilities		TMP and AJR Study 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).		
01/23 – 02/24	H.011504 Alexandria ITS Phase 2 Laurence was the project manager for a System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan.		
07/23 – 11/23	H.015504.5 CCC Decorative Lighting Level 4 TMP (New Orleans, LA) Laurence was the project manager for a Level 4 Traffic Management Plan (TMP) for the Crescent City Connection (CCC). Laurence oversaw the lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any “hot spots”. The results were summarized in a report that was reviewed by DOTD.		
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 <i>Traffic Engineering Manual</i> Sections 3B.2.4 and 3B.2.8 for a pedestrian marked crosswalk.		
03/21 – 03/22	H.014513.1 Lafayette Regional ITS Architecture Update Laurence completed an ITS System Inventory, identified all existing and future agreements between stakeholder organizations participating in the ITS operations in the Lafayette region, and updated the strategy for maintaining the regional ITS architecture.		
10/21—03/22	H.013256.5 I-10 ITS Scott to Lake Charles <i>Lead Traffic Engineer.</i> 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.		
07/19 – Present	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.
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.
09/18 – 02/19	H.013261.1 I-110 ITS Deployment Systems Engineering Analysis <i>Project Manager.</i> As a sub-consultant, Laurence was the task leader for the Constraints & Alternatives Analysis as well as the Projects & Procurement Strategy portion of the project. The goal of the project was to deploy Close Circuit Television (CCTV) cameras and one Dynamic Message Sign (DMS) along the I-110 corridor from US 190 to US 61. To communicate with the field devices from the Traffic Management Centers (TMCs), installing fiber optics along the I-110 corridor was recommended. The fiber optics also allow communication to the traffic signals at the interchange ramps along I-110 to the TMC.
03/18 – 06/18	Shreveport Immediate ITS Phase 2b <i>Lead Traffic Engineer.</i> Laurence was the task leader for Procurement and Alternative Analysis Configuration portions of the Systems Engineering Analysis (SEA) that complied with Code of Federal Regulations (CFR), Title 23, 940.11). The Alternatives Analysis Configuration consisted of analyzing three possible project configurations. The pros and cons of the needed equipment and communication options were documented. This task consisted of a field visit with DOTD staff to verify fiber optic lines, junction boxes and traffic signal controller types. The Procurement task consisted of investigating the methods of procurement for the deployment project where the procurement options for the pros and cons for each method were documented.

Firm employed by Vectura Consulting Services, LLC			VECTURA
Name	Reece Rodrigue, PE, PTOE, RSP1		Years of relevant experience with this employer
Title	Engineer		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		B.S. / 2013 / Civil Engineering	
Active registration number / state / expiration date		PE. 0042074 / LA / 03-31-2028	
Year registered	2017	Discipline	Civil
Contract role(s) / brief description of responsibilities		Project Engineer for Traffic Control Design / Temporary Traffic Signal Analysis and 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).		
04/20 – 04/26	H.004791 DOTD Belle Chasse Bridge and Tunnel Replacement Public-Private Partnership Project (Belle Chasse, LA) Reece is responsible for designing the temporary traffic signal for the intersection of LA 23 at Engineers Rd. for eight phases of construction per the anticipated sequence of construction. Temporary pole location and heights were recommended for placement for use for all construction phases. Vehicle clearance interval calculations were conducted for each phase in accordance with DOTD and ITE guidance. Reece is responsible for producing the traffic impact analysis portion of the Traffic Management Plan that was also used in planning for the permanent and temporary signal timing plans. Reece was also responsible for producing the permanent signal plans for the LA 23 intersections at Engineers Road and at Burmaster Street. He evaluated stop bar locations, calculated vehicle, and pedestrian clearance intervals, designed the railroad preemption sequence for both at-grade crossings, designed the wiring layout, and developed the interconnect plan. In addition, Reece was responsible for reviewing and approving shop drawings that were submitted by the contractor for use in construction.		
06/23 – 06/25	H.011507.1 Monroe Phase 3 SEA Reece visited the project site to document the controller type and detection needs at each signalized intersection within the right-of-way.		
04/21 - Present	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 – 04/26	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.		
01/23 – 02/24	H.011504 Alexandria ITS Phase 2 Reece was the project engineer for a site visit, System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan.		
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 a thorough analysis of the US 171 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.
09/20 – 12/21	H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish) Reece 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. This project consists of eight proposed construction phases. He assisted in calculating the temporary pole heights, determining the placement location for the temporary poles for each phase, measuring and calculating clearance intervals. Reece conducted a thorough analysis of the LA 30 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.
04/20 - Present	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 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 - Present	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.

Firm employed by Vectura Consulting Services, LLC				VECTURA
Name	Kristen Gahagan Farrington, PE, PTOE, RSP1		Years of relevant experience with this employer	5
Title	Engineer		Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization			B.S. / 2013 / Civil Engineering	
Active registration number / state / expiration date			PE. 0042785 / LA / 03-31-2027	
Year registered	2018	Discipline	Civil	
Contract role(s) / brief description of responsibilities			Project Engineer for Traffic Study	
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).			
12/23 – 12/24	H.972501.1 South Range Road Stage 0 (Tangipahoa Parish, LA) Kristen was the project manager for a Stage 0 project to improve operations on South Range Road. The project included data collection, existing conditions analysis, safety analysis, and alternatives development.			
05/23 – 05/24	US 190B/Fremaux Ave Sidewalk Feasibility Study (Slidell, LA) Kristen was the lead engineer for a sidewalk feasibility study that included data collection, safety analysis, alternative analysis, and final report.			
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 <i>Traffic Engineering Manual</i> 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 <i>Traffic Engineering Manual</i> . The study consisted of vehicular and pedestrian counts, spot speed study, safety analysis and field observations.			
04/21 – 07/24	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 <i>FHWA STEP Guide for Improving Pedestrian Safety at Unsignalized Locations</i> 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.
02/20 – 06/25	H.010616 – I-20: LA 544 Overpass Replacement (Ruston, LA) Kristen was project engineer for a Level 2 Transportation Management Plan (TMP) for a new four-lane bridge over I-20 and three, two-lane roundabouts along LA 544. Kristen also assisted Brin in the development temporary traffic signal plans with multiple setup configurations for the construction of the roundabouts.
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.

Firm employed by Vectura Consulting Services, LLC			VECTURA
Name	Bridget Scheyd Robicheaux, PE, PTOE (Part-Time)		Years of relevant experience with this employer
Title	Engineer		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		B.S. / 2007 / Civil Engineering M.S. / 2014 / Civil Engineering	
Active registration number / state / expiration date		PE. 0041272 / LA / 03-31-2027	
Year registered	2016	Discipline	Civil
Contract role(s) / brief description of responsibilities		Project Engineer for Traffic Control Design, Traffic Signal Analysis and Design / Traffic Study Support / Peer Reviews	
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).		
07/21 – Present	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 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 – Present	MOVEBR New Capacity Projects Program Management (Baton Rouge, LA) Bridget assists Brin daily 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 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.
07/18 – 04/19	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.
10/17 - 07/18	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.
09/17 - 11/17	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.
02/17 - 10/17	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.
06/16 - 09/17	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.

Firm employed by Vectura Consulting Services, LLC			VECTURA
Name	Gustavo Clavijo		Years of relevant experience with this employer
Title	Supervisor - Other		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		B.S./ 2011/ Business Administration	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Data Collection Project Manager	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
04/25 – 07/25	Driftwood LNG Data Collection (Lake Charles, LA) Gustavo scheduled and managed the traffic data collection efforts for 2 7-day classification counts, 93 approach counts and 33 turning movement counts with unmet demand. Gustavo assisted in the post processing of all tube and camera data and ensured that the data collection portion of the project was completed effectively and before the deadline.		
08/24 – 12/24	Monroe Street Corridor Study (Mandeville, LA) Gustavo scheduled and managed the traffic data collection efforts for 16 7-day classification counts and 30 turning movement counts with field observations. Gustavo assisted in the post processing of all tube and camera data and ensured that the data collection portion of the project was completed effectively and before the deadline.		
6/24 – 04/25	City of New Orleans Speed Management Program (New Orleans, LA) Gustavo scheduled and managed the traffic data collection efforts for this contract which included 48-hr speed studies for 60 segments throughout the City of New Orleans. Gustavo assisted in the equipment set-up/tear-down as well as the post processing of all radar sensor data and ensured that the data collection portion of the project was completed effectively and before the deadline.		
11/23 – 01/24	Traffic Impact Study for Waste Site (Lake Charles, LA) Gustavo scheduled and managed the traffic data collection efforts for 2 7-day classification counts and 14 turning movement counts. Gustavo assisted in the post processing of all tube and camera data and ensured that the data collection portion of the project was completed effectively and before the deadline.		
11/23 – 01/24	Distribution Center Traffic Impact Study (Elmwood, LA) Gustavo scheduled and managed the traffic data collection efforts for 2 7-day classification counts and 9 turning movement counts. Gustavo assisted in field observations as well as the post processing of all tube and camera data and ensured that the data collection portion of the project was completed effectively and before the deadline.		
9/23 – 01/24	US 190B /Fremaux Ave. Sidewalk Feasibility Study (Slidell, LA) Gustavo scheduled and managed the traffic data collection efforts for 2 7-day classification counts, 2 7-day ped and bike counts, 6 turning movement counts, 3 turning movement counts with demand and 3 radar spot-speed survey. Gustavo assisted in the post processing of all tube and camera data and ensured that the data collection portion of the project was completed effectively and before the deadline.		
12/22 – 12/22	I-10 Calcasieu River Bridge (Lake Charles, LA)		

	While employed with National Data and Surveying Services, Gustavo was the Project Coordinator working alongside WSP engineers to conduct the traffic data collection effort. Gustavo directly scheduled and managed the field collection efforts on two separate occasions for 54 7-day classification mainline and ramp counts. Gustavo ensured that all collection efforts were completed within budget and on schedule.
08/22 – 11/22	Ardenwood Dr Traffic Counts (Baton Rouge, LA) While employed with National Data and Surveying Services, Gustavo was the Project Coordinator working alongside Neel-Schaffer engineers to conduct the traffic data collection effort. Gustavo directly scheduled and managed the field collection efforts for 4 7-day classification counts, 25 48-hr classification counts, and 24 driveway counts. Gustavo ensured that all collection efforts were completed within budget and on schedule.
11/21 – 12/21	US 190 Traffic Counts (Mandeville, LA) While employed with National Data and Surveying Services, Gustavo was the Project Coordinator working alongside Neel-Schaffer engineers to conduct the traffic data collection effort for 29 48-hr classification counts; 20 6hr turning movement counts, 94 driveway counts and 2 radar spot-speed surveys. Gustavo ensured that all collection efforts were completed within budget and on schedule.

Firm employed by Vectura Consulting Services, LLC			VECTURA
Name	Zachary Koerner		Years of relevant experience with this employer
Title	Technician		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		Associate of Applied Science / 2017	
Active registration number/state/expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Data Collection Technician	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
05/25 – 07/25	Delta Trails Data Collection (Multiple sites along the Mississippi River, LA) Zach contributed to the traffic data collection efforts for 7 7-day classification counts. Zach assisted in the installation and tear down of field equipment as well as in the post processing of all tube and camera data.		
04/25 – 07/25	Driftwood LNG Data Collection (Lake Charles, LA) Zach contributed to the traffic data collection efforts for 2 7-day classification counts, 93 approach counts and 33 turning movement counts with unmet demand. Zach assisted in the installation and tear down of field equipment as well as in the post processing of all tube and camera data.		
04/25 – 08/25	LA 59 to LA 1088 Connector (Mandeville, LA) Zach contributed to the traffic data collection efforts for 10 3-day approach counts, 3 turning movement counts and 2 spot speed studies. Zach assisted in the installation and tear down of field equipment as well as in the post processing of data.		
08/24 – 12/24	Monroe Street Corridor Study (Mandeville, LA) Zach contributed to the traffic data collection efforts for 16 7-day classification counts and 30 turning movement counts with field observations. Zach assisted in the installation and tear down of field equipment as well as in the post processing of all tube and camera data.		
6/24 – 04/25	City of New Orleans Speed Management Program (New Orleans, LA) Zach contributed to the traffic data collection efforts for this contract which included 48-hr speed studies for 60 segments throughout the City of New Orleans. Zach assisted in the installation and tear down of field equipment as well as in the post processing of all radar sensor data.		

17. FIRM EXPERIENCE:

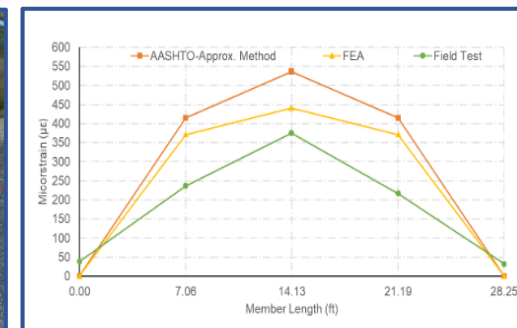
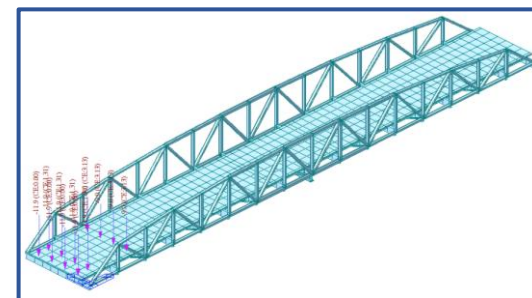
Firm name	SDR Engineering Inc 		Discipline(s)	Bridge
Project name	Evaluation and Load Testing of Five Posted Bridges		Firm responsibility (prime or sub?)	Prime
Project number	H.009859.5	Owner's name	LADOTD	
Project location	Statewide, LA		Owner's Project Manager	Dana Feng, PhD, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, (225) 379-1060, Dana.Feng@LA.GOV			
Services commenced by this firm (mm/yy)	05/19	Total consultant contract cost (\$1,000's)		\$343
Services completed by this firm (mm/yy)	01/20	Cost of consultant services provided by this firm (\$1,000's)		\$343

The scope of work was to evaluate five bridges, three of which are movable bridges, that were posted for a load lesser than the Legal Loads and/or Special Hauling Vehicles. The evaluation was carried out utilizing bridge inspection and load testing coupled with detailed 3-D Finite Element Analysis, to remove the current load posting. This approach captures the actual behavior of the structure and accounts for strength-enhancing factors not included in the design. Results reveal that the bridges can carry loads higher than those estimated by design codes.

Recall No.	Parish	Type	Total Length (feet)
033700	Cameron	Steel Low Truss Swing Span	1,049
033730	Cameron	Steel Low Truss Swing Span	589
009690	Vermillion	Steel Plate Girder Swing Span	465
009580	Vermillion	Precast Concrete Slab Units	114
009570	Vermillion	Precast Concrete Slab Units	114

A strengthening and rehabilitation plan was also developed for the Mermentau Bridge (#033700) to avoid posting.

Team: Osama Elsaad, PE; Zhiyong Liang, PhD, PE; Mohsen Shahawy, PhD, PE; Feng Xie, PE

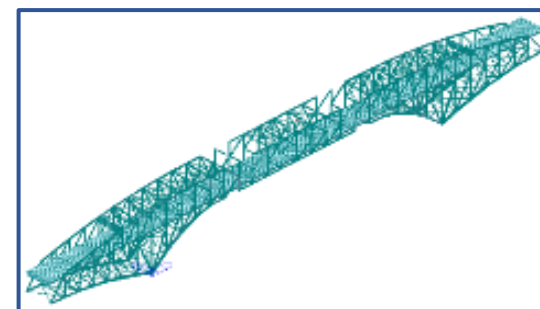
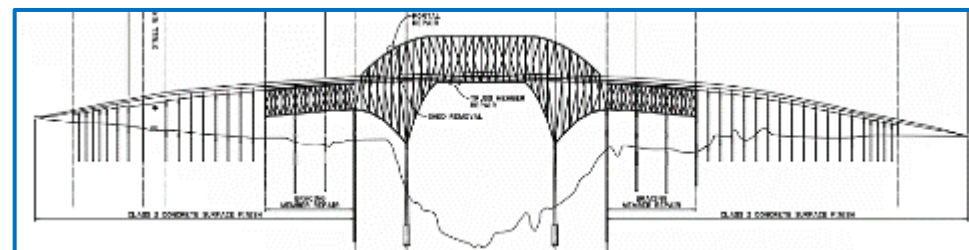


Firm name	SDR Engineering Inc		Discipline(s)	Bridge	
Project name	US 80 Texas Street over Red River Bridge Rehab			Firm responsibility (prime or sub?)	Prime
Project number	H.011484	Owner's name	LADOTD		
Project location	Shreveport, LA		Owner's Project Manager	Stephanie Doolittle, PE	
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, (225) 379-1329, Stephanie.Doolittle@la.gov			
Services commenced by this firm (mm/yy)		11/15	Total consultant contract cost (\$1,000's)		\$962
Services completed by this firm (mm/yy)		04/18	Cost of consultant services provided by this firm (\$1,000's)		\$962

This project was to provide hands-on inspection, load rating, and rehabilitation design for the US 80 Texas Street Bridge over the Red River, including the truss pans and approach spans. The bridge consisted of a main truss span 884 feet long, six 102.75 feet steel deck truss spans, one 91-foot steel girder span, and 35 reinforced concrete deck girder approach spans of varying span lengths. The major tasks included:



- In-depth inspection of all components of the superstructure and substructure.
- Ultrasonic testing of pins.
- LRFR Load rating utilizing 3-D FE modeling.
- Evaluation of the bridge and determination of the proposed scope for rehabilitation.
- Develop final report with rehabilitation recommendations.
- Design of rehabilitation and preparation of construction plans.
- Develop special provisions and a construction cost estimate.
- Provide construction support (approving submittals, responding to RFIs, site visits, and change orders preparation).



Team: Osama Elsaad, PE; Zhiyong Liang, PhD, PE; Mohsen Shahawy, PhD, PE; Feng Xie, PE

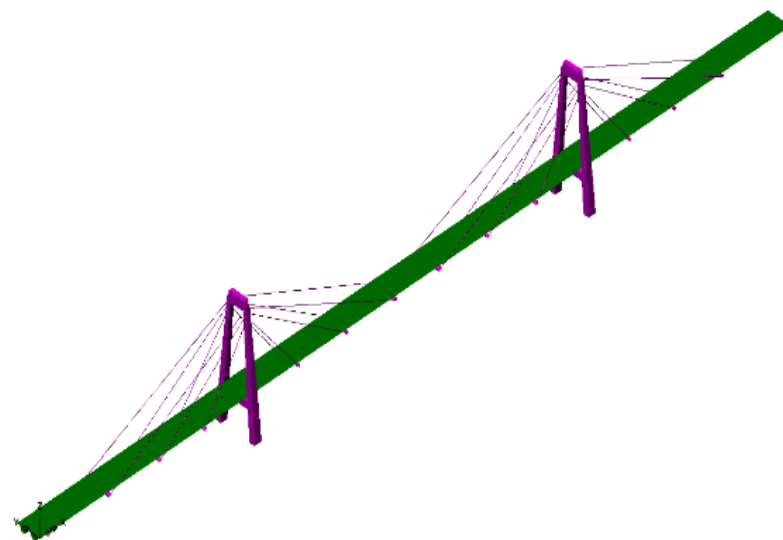
Firm name	SDR Engineering Inc 		Discipline(s)	Bridge	
Project name	Luling Bridge Rehabilitation			Firm responsibility (prime or sub?)	Prime
Project number	H.010498	Owner's name	LADOTD		
Project location	St. Charles, LA		Owner's Project Manager	Chris B. Guidry, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, (225) 375-1328, Chris.Guidry@LA.GOV				
Services commenced by this firm (mm/yy)	07/13	Total consultant contract cost (\$1,000's)			\$667
Services completed by this firm (mm/yy)	07/15	Cost of consultant services provided by this firm (\$1,000's)			\$667

The Luling Bridge (Hale Boggs Memorial Bridge) is a five-span cable-stayed bridge with twin steel towers supporting the cables and a floor beam-stringer deck system. The bridge's orthotropic deck overlay has a history of cracking and spalling starting shortly after the bridge was placed into service. Inspection of the bridge indicated cracks at the connection of a web stiffener to the deck plate, and rocker bearings for the approach span support at Pier 1S may have permanently locked inward tilting.

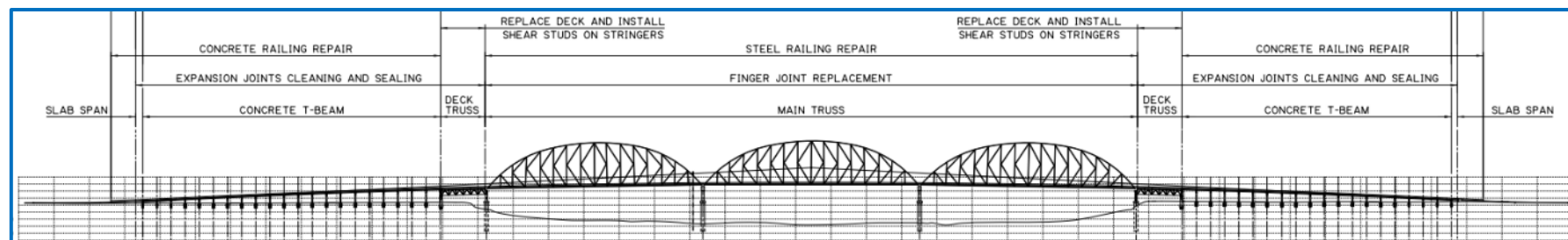
Project Features:

- Investigation of the existing condition of the bridge structure, including existing fatigue-prone details, and the extent of the existing cracks.
- Load rating of the bridge superstructure using the LRFR method in accordance with the DOTD Bridge Load Rating Manual.
- Development of 3-D FE models to investigate the cause of the fatigue cracks.
- Evaluation report with repair recommendations.
- Preparation of the bridge rehabilitation design documents and repair details for the individual required repairs for the bridge structure.
- Development of appropriate construction staging/phasing schemes.
- Cost estimation and schedule.

Team: Osama Elsaad, PE; Zhiyong Liang, PhD, PE; Mohsen Shahawy, PhD, PE; Feng Xie, PE



Firm name	SDR Engineering Inc	Discipline(s)	Bridge
Project name	Long-Allen Bridge (LA 182 over Atchafalaya River-Berwick Bay)		Firm responsibility (prime or sub?)
Project number	H.011487	Owner's name	LADOTD
Project location	Lafayette Parish, LA	Owner's Project Manager	Chris Guidry, PE
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, (225) 379-1329, Chris.Guidry@LA.GOV		
Services commenced by this firm (mm/yy)	10/18	Total consultant contract cost (\$1,000's)	\$946
Services completed by this firm (mm/yy)	02/21	Cost of consultant services provided by this firm (\$1,000's)	\$946



The bridge was built in 1933 and consists of 47 spans with a total length of 3,746 feet. The approach spans consist of two reinforced concrete slab spans, 40 reinforced concrete T-beam spans, and two deck truss spans. The main spans consist of three identical through truss spans with a span length of 608 feet. The substructure is comprised of concrete pile bents, two-column concrete bents, and concrete piers. The scope of work includes:

- Inspection of superstructure.
- Load rating of main truss, deck truss, and approach spans.
- Evaluation of superstructure and substructure to determine the scope of rehabilitation.
- Diagnostic load test of approach spans using strain gauges and calibration trucks.
- Design rehabilitation and develop construction plans and cost estimates.
- Develop TTC plans.

Bridge rehabilitation includes cleaning and painting of all steel members, CFRP strengthening of approach slab spans, replacing concrete deck of deck truss spans, heat-straightening of selected truss members, jacking the deck truss and repair of the rocker bearings, replacing finger joints, and supporting beams, cleaning and sealing of expansion joints, repairing concrete railing, applying epoxy-urethane overlay system on roadway, and applying methyl methacrylate concrete sealer on sidewalks.

Team: Osama Elsaad, PE; Zhiyong Liang, PhD, PE; Mohsen Shahawy, PhD, PE; Feng Xie, PE



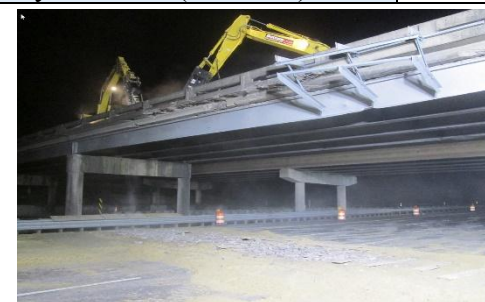
Firm name	SDR Engineering Inc 		Discipline(s)	Bridge	
Project name	LA 27 I-10 Overpass Repairs			Firm responsibility (prime or sub?)	Prime
Project number	H.013450	Owner's name	LADOTD		
Project location	Calcasieu Parish		Owner's Project Manager	Heather Patton, PE	
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, 225-379-1306, Heather.Patton@LA.GOV			
Services commenced by this firm (mm/yy)		3/18	Total consultant contract cost (\$1,000's)		\$364
Services completed by this firm (mm/yy)		6/18	Cost of consultant services provided by this firm (\$1,000's)		\$364

LA 27 Northbound and Southbound bridges spanning over I-10 were struck by an over-height vehicle. LA 27 Northbound is a five-girder bridge consisting of AASHTO Type III and Type IV precast prestressed concrete girders. One interior girder and one exterior girder on Span 2 were impacted near midspan, resulting in a total of seven severed prestressing strands. The Southbound bridge is a four-girder bridge consisting of steel plate girders and rolled steel girders. Two exterior girders on Span 3 sustained impact damage to the bottom flange from the over-height vehicle. Due to the significance of the bridge route, LADOTD initiated emergency repair procedures to rapidly assess the damage and restore the structures to safe operating conditions.

To assess the extent of the damage, SDR Engineering Inc. performed an in-depth inspection and structural evaluation. Following the assessment, load ratings and rehabilitation plans were developed. Accelerated Bridge Construction (ABC) methods were utilized for the repairs, including strand splicing and CFRP laminates for the prestressed concrete girders, heat straightening techniques for the impacted steel girders, and plate girder replacement. The total length of all tasks, including construction, was performed within three months.

The concrete girders were restored to their original section properties, while the CFRP laminates provided additional confinement and enhanced flexural capacity. The rehabilitation measures allowed the structures to safely return to service while minimizing traffic disruptions and construction duration.

Team: Osama Elsaad, PE; Zhiyong Liang, PhD, PE; Mohsen Shahawy, PhD, PE; Feng Xie, PE



Firm name:	T. Baker Smith, LLC 		Discipline(s)	Other (Subsurface Utility Engineering)
Project name:	LADOTD-IDIQ SUE Services Statewide Louisiana		Firm responsibility (prime or sub?)	Prime
Project number	4400014661	Owner's name	Louisiana Department of Transportation and Development	
Project location	Statewide Louisiana		Owner's Project Manager	Steve LeBlanc, PLS
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70802, 225-379-1956, steve.leblanc2@la.gov			
Services commenced by this firm (mm/yy)	06/21	Total consultant contract cost (\$1,000's)		\$2,332
Services completed by this firm (mm/yy)	10/23	Cost of consultant services provided by this firm (\$1,000's)		\$2,332

Calcasieu River Bridge. TBS provided Quality Level B and Quality Level A SUE services as well as Utility Coordination during Design for this project along I-10 in Lake Charles, Louisiana. The purpose of the project is to replace the existing I-10 bridge crossing Lake Charles. This is one of the largest SUE projects in the history of LADOTD. There are numerous pipelines throughout the corridor due to the abundance of chemical plants in the area, so determining the location of these pipelines was crucial to the design of the project. Our team had to coordinate continuously with the pipeline owners to perform test holes on these facilities which slowed down the production rate of the field staff.

The City of Westlake utilities such as water, sewer, and gas proved to be difficult to locate and the records were outdated and unclear. A combination of designating, test holes, and ingenuity was used to properly map out these utilities. Utility coordination was used to inform the utility companies of the impact the project would have on their facilities. The difficult part of the process was the fact that there wasn't a finished design to determine conflicts. A new process and precedent was set to accomplish the goals posed by LADOTD.



LA 549 Overpass at I-20. Located in Ouachita Parish, Louisiana, near the intersection of I-20 and Texas Avenue (LA 549), TBS provided Quality Level B services along a linear distance of approximately 4,055 feet. While most utilities proved locatable, the existing water lines were difficult to designate. TBS used a combination of probing and records review to determine the location of the water mains within the project limits.

Southern University Ravine Protection. Located in East Baton Rouge Parish, Louisiana, within the campus of Southern University, TBS performed Quality Level B and C services throughout the survey limits for an emergency ravine protection project. University campuses are a notoriously difficult environment to locate underground utilities and Southern's campus proved this theory correct. There were no record drawings available of the Southern university private facilities which all of the utilities present belonged to the university. TBS had to rely heavily on sweeps and diligently search for above ground features to connect to. Part of the scope was to provide Quality Level C services within certain limits. However, there were no records available, which limited the ability to provide QL-C services for certain areas.

Team: TJ Stokes, PE; Perry Smith, Jr.

Firm name:	T. Baker Smith, LLC 			Discipline(s)	Road, Survey
Project name:	IDIQ Contract for Roadway Design Services Statewide Louisiana			Firm responsibility (prime or sub?)	Prime
Project number	4400024928	Owner's name	Louisiana Department of Transportation and Development		
Project location	Statewide (Multiple Parishes)	Owner's Project Manager	Andrew Judice, PE		
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70802; 225-379-1738; Andrew.Judice@LA.GOV				
Services commenced by this firm (mm/yy)	03/23	Total consultant contract cost (\$1,000's)			\$2,340
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm (\$1,000's)			\$2,340

T. Baker Smith, LLC (TBS) currently holds LADOTD's IDIQ Contract for Roadway Design Services Statewide, providing roadway engineering, surveying, environmental, and traffic engineering services in accordance with DOTD standards, procedures, and delivery requirements. Since contract execution, TBS has been issued seven task orders across multiple districts, demonstrating our ability to begin quickly, coordinate effectively with DOTD project managers, districts, and technical sections, and advance Preliminary and Final Plans under varying roadway design constraints and schedules.

Under this IDIQ, TBS has been issued four DOTD roundabout task orders. These include H.015576 LA 447 & LA 1025: Roundabout in Livingston Parish; H.015721 LA 30: Roundabout @ St. Elizabeth / S. Penn in Ascension Parish; H.015587 LA 3211 @ Yokley Road Roundabout in St. Mary Parish; and H.010795 LA 42: Roundabout at Joe Sevario Road in Ascension Parish. These projects involve coordination and design considerations related to approach geometry, traffic maintenance, drainage, utilities, construction sequencing, right-of-way limitations, hospital access, high-speed approaches, and adjacent residential, commercial, industrial, and agricultural traffic.

TBS has also delivered pavement preservation and rehabilitation projects through this contract, including H.015308 I-49: I-10 – St. Landry Parish Line in Lafayette Parish, a patch, mill, and overlay interstate project completed within an aggressive 45-day Preliminary and Final Plans delivery window to meet funding requirements. TBS is also advancing H.015485 LA 3187: LA 13 – LA 13 in Evangeline Parish, a Road Transfer Program pavement preservation project involving approximately nine miles of rural two-lane highway, patching, mill and overlay, and drainage improvements at cross-drain locations.

For H.016095 LA 70 Rehab: Marguerite Street to US 90 in St. Mary Parish, TBS provided roadway engineering services for full-depth pavement replacement and drainage replacement in a constrained urban corridor while avoiding conflicts with existing water, sewer, and fiberoptic utilities. TBS submitted Final Plans ahead of DOTD's established Project Delivery Date.

Through these task orders, TBS has delivered DOTD roadway design assignments involving aggressive schedules, maintenance of traffic, utility coordination, drainage replacement, right-of-way constraints, and DOTD task order delivery requirements.

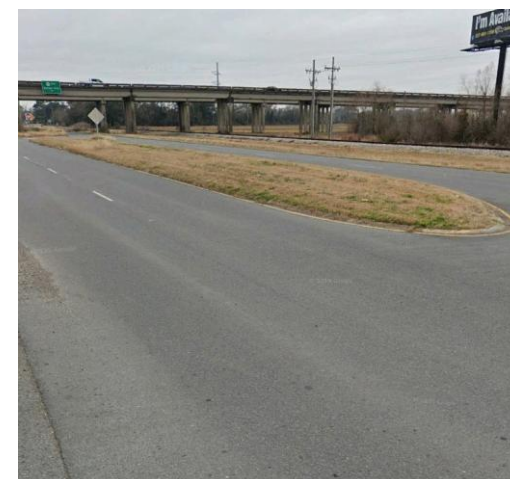
Team: TJ Stokes, PE; Kenny Belou, PE; Kelly Radecker, PE; Brady Smith, PE, PMP; Daniel Binet, PE; Jean Reulet, PLS; Anthony Burns; Branden Kinnaird



Firm name:	T. Baker Smith, LLC 			Discipline(s)	Survey
Project name:	IDIQ Contract for Professional Surveying Services Statewide			Firm responsibility (prime or sub?)	Prime
Project number	4400021973	Owner's name	Louisiana Department of Transportation and Development		
Project location	Statewide, LA	Owner's Project Manager	Jonathan Herrod, PLS		
Owner's address, phone, email	1201 Capitol Access Rd., Baton Rouge, LA 70802, 225-379-1105, Jonathan.Herrod@la.gov				
Services commenced by this firm (mm/yy)	11/21	Total consultant contract cost (\$1,000's)			\$2,426
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm (\$1,000's)			\$2,426

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

- **S.P. No. H.009892 – LDRR (New Iberia) US 90 Frontage Road, Iberia Parish.** This project is located in Iberia Parish, LA at the intersection of US 90 and LA 329, north of US 90, and along US 90 Frontage Road and LA 329. The project's objective was to connect the US 90 Frontage Road across LA 329 and the existing Louisiana and Delta Railroad (LDRR). A complete topographic survey including all utilities with depths and all drainage was required, along with the finished floor elevations of all buildings that fell within the survey limits and an existing drainage map of the project site.
- **S.P. No. H.014414 – LA 22: Bedico Creek – Pine Creek Dr, St. Tammany and Tangipahoa Parishes.** This project is located near Madisonville, LA along LA 22. The main corridor for this project is approximately 4.5 miles along a highly trafficked roadway through a heavily wooded corridor. The width of the survey and DTM was a total of 140', extending 70' on each side of the project centerline. The project also included the topographic survey for a potential roundabout at Trapagnier Road and an existing drainage map of the project site. Over the course of the year-long survey, TBS encountered ongoing new utility installation and other construction throughout the site. A complete topographic survey including all utilities with depths and all drainage was required, along with the finished floor elevations of all buildings that fell within the survey limits.
- **S.P. No. H.015587 LA 3211 @ Yokley Road Roundabout, St. Mary Parish.** This project is located in Franklin, LA at the intersection of LA 3211 and Yokley Road. The project's objective was to construct a roundabout at the intersection. A complete topographic survey including all utilities with depths and all drainage was required, along with the finished floor elevations of all buildings that fell within the survey limits and an existing drainage map of the project site.
- **S.P. No. H.016326 LA 36 Drain Bridge, St. Tammany Parish.** This project is located in St. Tammany Parish, LA along LA 36. The project's objective was to replace an existing bridge structure over a drainage canal. The site extended for approximately one thousand (1,000) feet in length and one hundred fifty (150) feet in width. A complete topographic survey including all utilities with depths and all drainage was required, along with the finished floor elevations of all buildings that fell within the survey limits.



Team: Jean Reulet, III, PLS; Ryan DiSalvo, PLS; Jeremy Cormier, PLS; Anthony Burns

Firm name	Ardaman & Associates, Inc.			Discipline(s)	Geotech	
Project name	I-10: LA 415 to Essen Lane on I-10 & I-12 (CMAR)			Firm responsibility (prime or sub?)		Sub
Project number	SP No. H.004100.5		Owner's name	LADOTD		
Project location	East Baton Rouge Parish, LA			Owner's Project Manager	Nicholas Olivier	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA; 225-379-1133; nicholas.olivier@la.gov					
Services commenced by this firm (mm/yy)		07/21	Total consultant contract cost (\$1,000's)			\$20,800
Services completed by this firm (mm/yy)		Present	Cost of consultant services provided by this firm (\$1,000's)			\$692

The Construction Management at Risk (CMAR) project scope consists of widening the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish, spanning approximately 2.5 miles. Ardaman is the Geotechnical Consultant on the CMAR team and is currently providing geotechnical support for Segment 1, which starts near the I-10 and I-110 split between Napoleon and St Joseph Streets to the Acadian Thruway entrance and exit ramps. Ardaman previously completed 58 soil borings and associated laboratory testing based on LADOTD standards, and 11 electronic cone penetration tests (ECPT) in the preliminary portion of the widening project between Napoleon Street and Louise Street under our current retainer contract in support of the project. In addition, Ardaman performed geophysical surveys along the entire alignment, which allowed for the survey of the subsurface conditions between the boring locations. Ardaman is currently performing 37 additional soil borings along the Segment 1 area to supplement existing data along the alignment.



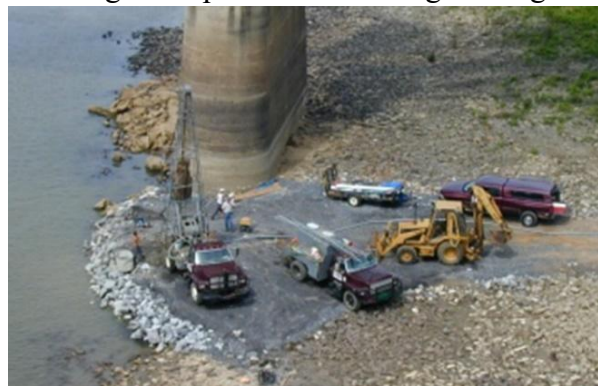
Engineering services include supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile and analyze all the supplied soil boring data provided by LADOTD and the additional borings that are currently being performed. The engineering analyses consist of a detailed selection of design reaches and design soil parameters, slope stability and settlement of earth retained structures, soil-structure interaction with existing structures, deep foundation design, and load testing recommendations. A preliminary geotechnical assessment report was prepared, and a final geotechnical design report will be submitted.

Team: Robert Jewell, PE; Megan Bourgeois, PE; Ross McGillivray, PE; Jarmon King, PE; Robert Rousset, PE; Jessica Litt; Casey Floyd; Chae Hrenyk

Firm name	Ardaman & Associates, Inc. 		Discipline(s)	Geotech	
Project name	I-20 Mississippi River Bridge Review			Firm responsibility (prime or sub?)	Prime
Project number	SP No. H.004646 09-L1049, H.010603.6 13-3720, H.010612.6 20-3729			Owner's name	LADOTD
Project location	Madison Parish, LA		Owner's Project Manager	Chris Nickel	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA; 225-379-1100; Chris.Nickel@la.gov				
Services commenced by this firm (mm/yy)	10/09	Total consultant contract cost (\$1,000's)			\$7,326
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm (\$1,000's)			\$7,326

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

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



As part of the project, Ardaman developed a full slope stabilization design and construction remediation strategy and a monitoring program for the bluff instability and ground movements affecting the existing I-20 Mississippi River Bridge.

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



Team: Megan Bourgeois, PE; Robert Jewell, PE; Ross McGillivray, PE; Robert Rousset, PE; Jarmon King, PE; Jessica Litt; Casey Floyd; Chae Hrenyk

Firm name	Ardaman & Associates, Inc. 		Discipline(s)	Geotech
Project name	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167)		Firm responsibility (prime or sub?)	Sub
Project number	SP No. H.004273.5	Owner's name	LADOTD	
Project location	Lafayette Parish, LA		Owner's Project Manager	Chris Nickel
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA ; 225-379-1100; Chris.Nickel@la.gov			
Services commenced by this firm (mm/yy)	07/15	Total consultant contract cost (\$1,000's)		\$21,000
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm (\$1,000's)		\$1,889

The overall project includes construction of a freeway with accompanying interchanges in the Evangeline Thruway US 90/US 167 corridor and flanking collector/distributor roads for local traffic circulation and land access. The project begins just south of the Lafayette Regional Airport and continues north to the I-10/US 167/I-49 interchange, a length of approximately five miles, 3.5 of which consist of elevated structure. The project includes one three-level directional interchange at Kaliste Saloom Road (m

jority of interchange on structure); two full diamond interchanges at University/Surrey Street and Willow Street; two single point diamond interchanges at Johnston Street and 2nd/3rd Streets with associated railroad grade separations and arterial cross street studies involved; and various cross street connections at Pinhook Road, Jefferson Street, Mudd/Simcoe Street, Donlon Street, Castille/Martin Luther King Road and several minor streets.



The scope of services for this project includes preconstruction engineering design and related services for the construction of 5 miles of freeway consisting of a 3.5 mile-elevated structure that will include pile supported approach slabs, pile foundations, slope stability, pavement recommendations, embankment settlement, development of an advanced load test program, earth retaining structures, pavement design recommendations, and development of a design report presenting the geotechnical recommendations. The goal of the project is to design and construct the freeway and connecting infrastructure within the parameters and commitments of the selected alternative. Ardaman is currently conducting the geotechnical field investigation, which consists of approximately 400 deep and shallow borings and Cone Penetrometer (CPT) soundings (including field reconnaissance, gaining rights of entry, completing utility location, GPS location, and water table elevations), laboratory testing, and geotechnical engineering analyses and design for this project.

Team: Megan Bourgeois, PE; Robert Jewell, PE; Ross McGillivray, PE; Robert Rousset, PE; Jarmon King, PE; Jessica Litt; Casey Floyd

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

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

Scope of Services: Scope of Services:

The scope included a full topographic survey capturing:

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

All deliverables were completed in accordance with the LA DOTD Location and Survey Manual, including point cloud data in E57 and LAS format.

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

Deliverables:

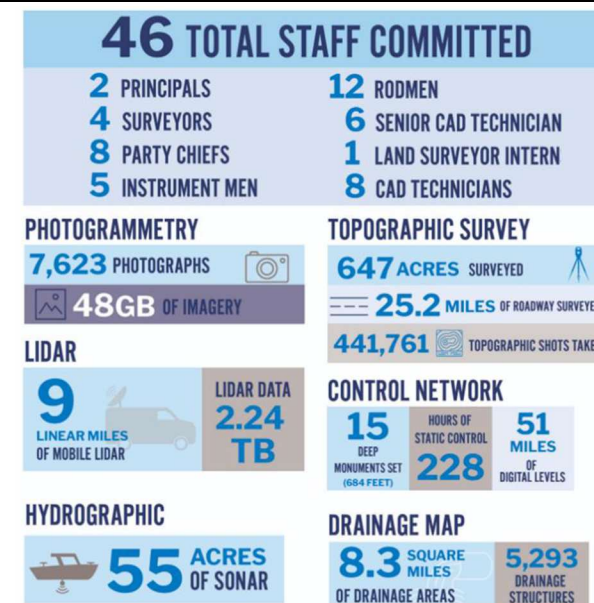
- Digital Terrain Model (DTM)
- Topographic CAD files
- Utility and drainage mapping
- TLS Point Cloud (E57 and LAS)
- Apparent right-of-way mapping

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

Team: Brad Holleman, PLS, PE; Ross Wilson, PLS

Firm name	Forte & Tablada, Inc. 	Discipline(s)	Survey
Project name	Calcasieu River Bridge (HBI)	Firm responsibility (prime or sub?)	Prime
Project number	H.003931	Owner's name	LADOTD
Project location	Calcasieu, Louisiana	Owner's Project Manager	Barrett Smith
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1292, Barrett.Smith@la.gov		
Services commenced by this firm (mm/yy)	07/23	Total consultant contract cost (\$1,000's)	\$4,282
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm (\$1,000's)	\$4,282

Forte and Tablada completed this survey comprised of four task orders under multiple IDIQ Contracts for Professional Surveying Services for LADOTD. Spanning approximately 7 miles, it involved a comprehensive topographic survey of interstate I-10, the I-10 Bridge over the Calcasieu River, and the Calcasieu River Ship Channel, with much of the work conducted within a high-traffic industrial area. Our team established primary survey control, including deep rod monuments meeting National Geodetic Survey standards, to ensure accurate data collection. We conducted a comprehensive topographic survey that met LADOTD On-System survey standards, utilizing conventional, terrestrial LiDAR, and Mobile LiDAR survey methods to minimize risks to field crews. Particularly, LiDAR survey methods enabled detailed capture of deck and substructure features of multiple bridges. Additionally, we performed a multibeam hydrographic survey of the channel, adjacent water bodies, and canals within the project limits, which included identifying existing bridge substructures, fender systems, and debris, complemented by a magnetometer survey. Services also encompassed producing an existing drainage map covering the survey area and a half-mile perimeter beyond, as well as utility surveys assisted by a Subsurface Utility Engineer's utility locations. The project's magnitude necessitated the mobilization of up to 6 crews, demonstrating Forte and Tablada's capability to efficiently execute large-scale topographic survey tasks within tight project timelines.



Team: Joey Coco, PE; Brad Holleman, PLS, PE; Ross Wilson, PLS; Brent Campbell

Firm name	Gulf South Research Corporation 			Discipline(s)	Environmental	
Project name	Strategic Biofuels EA for New Construction and Operation of the LA Green Fuels Bio-Refinery				Firm responsibility (prime or sub?)	Prime
Project number	Signed letter contract	Owner's name	Strategic Biofuels, LLC			
Project location	Caldwell Parish, LA			Owner's Project Manager	Paul Oestermeich	
Owner's address, phone, email	303 Wall Street, Columbia, LA 71418; (314) 250-7157; pauloesterreich@strategicbiofuels.net					
Services commenced by this firm (mm/yy)		03/24	Total consultant contract cost (\$1,000's)			\$35
Services completed by this firm (mm/yy)		On-going	Cost of consultant services provided by this firm (\$1,000's)			\$35

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.) GSRC was contracted by Strategic Biofuels (Strategic), LLC to prepare an EA for the construction, operation, and maintenance of the proposed Louisiana Green Fuels (LGF) refinery, including one natural gas pipeline right-of-way (ROW), two carbon dioxide pipeline ROWs, and two injection well pads. The project area is approximately 420 acres located in Caldwell Parish, Louisiana. As part of the EA process, GSRC was responsible for conducting wetland surveys on six individual tracts of land that comprise the refinery facility site as well as the natural gas pipeline ROW, carbon dioxide pipeline ROWs, and well pads. GSRC was responsible for coordinating with the U.S. Army Corps of Engineers (USACE) to obtain a Preliminary Jurisdiction Determination for four of the tracts of land that comprise the refinery facility site. GSRC also conducted vegetation and protected species surveys. There is one endangered species (Northern long-eared bat), one proposed endangered species (Tricolored bat), one proposed threatened species (Alligator snapping turtle) and a candidate species (Monarch butterfly) known to occur in the area. In accordance with the Endangered Species Act (ESA), critical habitat was researched, however was not found within the project site. GSRC was also responsible for conducting Phase I Cultural Resources surveys for the same areas in which the wetland delineation surveys were performed. GSRC was responsible for conducting Section 106 consultation with the Louisiana State Historic Preservation Officer (SHPO) to obtain concurrence on GSRC findings. The associated studies were performed under separate work orders.



GSRC prepared the Draft EA in compliance with the National Environmental Protection Act (NEPA) and current Council on Environmental Quality's (CEQ) guidelines. As part of the EA process, GSRC was responsible for submitting the coordination letters to federal, state, and local agencies and affected Native American tribes. The purpose of these letters was to obtain any information or data these groups may have on potentially affected resources in the project's Region of Influence. Mr. Howard Nass is the project manager for this project and is responsible for project finances, scheduling, project coordination, oversight of associated studies, and preparation of the EA. He is also responsible for coordinating with federal, state, and local agencies during the preparation of the EA.

Team: John Lindemuth; Mark Hathorn; Howard Nass; Beau Rapier; Ross Hackbarth;

Firm name	Gulf South Research Corporation 			Discipline(s)	Environmental	
Project name	Mississippi River Bridge South: LA1 to LA30 Connector, Iberville Parish, Louisiana				Firm responsibility (prime or sub?)	Sub
Project number	80883001	Owner's name	Atlas Technical Consultants LLC			
Project location	Iberville Parish, Louisiana			Owner's Project Manager	Anna Choudhuri	
Owner's address, phone, email	8440 Jefferson Hwy, Suite 400, Baton Rouge, LA 70809; 877-215-4321; ananya.choudhuri@oneatlas.com					
Services commenced by this firm (mm/yy)	6/24	Total consultant contract cost (\$1,000's)				\$413
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)				\$413

GSRC was contracted by Atlas Technical Consultants, LLC to conduct a terrestrial cultural resources investigation for three proposed bridge crossing and alignments for the Mississippi River Bridge (MRB) South: LA1 to LA30 Connector in Iberville Parish, Louisiana. The total Area of Potential Effect (APE) for the terrestrial survey was 1,716 acres. A visual APE for standing structures was set at a 0.5-mile buffer around the bridges and approaches. Prior to initiation of fieldwork, background and archival research were conducted. Archaeological research conducted within the area consists of academic investigations and contract archaeology. Thirty-one previously conducted archaeological investigations are on file with the Louisiana Division of Archaeology (LADOA) within 1.6 kilometers (km) (1 mile [mi]) of the survey area, twenty of which overlap with the current APE. Of the 52 archaeological sites within a 1-mi radius, one prehistoric site, seven historic sites, and three multicomponent sites are within the APE. Thirty-three previously recorded aboveground resources and four historic properties listed on the National Register of Historic Places (NRHP) (Bagatelle Plantation, Towles-Musso House, Lucky Plantation House, and Bayou Paul Colored School) have been recorded in a 1-mi radius of the project area. Of those aboveground resources, two NRHP-listed properties and eight previously recorded Louisiana Historic Standing Structures are within the 0.5-mi visual APE. The Phase I terrestrial survey of the MRB South alignments were conducted during multiple field sessions from July 9, 2024, to February 27, 2025, and consisted of a pedestrian survey as well as the excavation of shovel test pits (STPs) at 30-meter (m) intervals across all the alignments. A total of 1,716.4 acres (ac) were surveyed for the project, divided across three proposed alternate alignments with a total of 4,204 STPs excavated out of 7,034 pre-plotted STPs. Archaeological resources recorded during the terrestrial surveys included revisiting and updating three previously recorded archaeological sites, recording seven new archaeological sites, and recording 14 isolated occurrences (IO-1 through IO-14). In addition, eight archaeological sites were located within areas that were previously surveyed for archaeological resources. During the aboveground survey, a total of 87 locations that fell within the visual APE of the MRB South project corridor were surveyed and evaluated. The survey included two NRHP-listed properties (Bayou Paul Colored School and Lucky Plantation House) and eight previously recorded Louisiana Historic Standing Structures. A total of 77 structures were newly recorded. The most common newly recorded styles and forms were Minimal Traditional (21), Wood Frame Vernacular (19), Ranch (19) and Shotgun (4). Such styles and forms were reflective from the Depression era (1929-1939) through the middle twentieth century; however, some resources that date to the early 1900s were not recorded by previous surveys. Newly recorded less-representative styles and forms include: cemeteries (2), industrial (2), miscellaneous styles/forms (6), and no particular style/form (4). GSRC produced the technical report, which outlined the results of the survey and recommendations for all resources found. The report also integrated the results of the submerged survey, which was conducted by another firm contracted by Atlas.



Team: John Lindemuth; Dr. Bretton Somers; Mark Kudron; Jenifer Davis; Jake Vicknair

Firm name	WGI, Inc. 			Discipline(s)	Bridge and Road	
Project name	HEFT Widening from SR 836 to NW 106th Street Post Design Services				Firm responsibility (prime or sub?)	Prime
Project number	N/A		Owner's name	Florida's Turnpike Enterprise		
Project location	Miami-Dade County			Owner's Project Manager	Paul Naranjo	
Owner's address, phone, email		Building #5315, Turkey Lake Svc Plaza, Ocoee, FL, 34761, 407-264-3429, paul.naranjo@dot.state.fl.us				
Services commenced by this firm (mm/yy)		6/19	Total consultant contract cost (\$1,000's)			\$3, 417
Services completed by this firm (mm/yy)		12/25	Cost of consultant services provided by this firm (\$1,000's)			\$2,837

The project completed final design plans and construction specifications to widen the HEFT from south of SR 836 (Dolphin Expressway) to NW 106th Street to 10 lanes, including incorporating express lanes. Scoped project improvements included the design and inclusion of the ultimate HEFT/SR 836 interchange, incorporating all movements to and from the two expressway facilities, including direct connections to the HEFT express lanes to and from the west, and incorporation of a new northbound entry ramp at NW 41st Street from NW 117th Avenue.

Team: Bradley Gersh, PE; Carlos Campos, PE; Corey Hill, PE; David Gerber, PE; Keegan Larson, PE



Firm name	WGI, Inc. 		Discipline(s)	Survey and Road
Project name	I-95 Emerson to Atlantic DB		Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	FDOT District 2	
Project location	Duval County		Owner's Project Manager	Craig Teal
Owner's address, phone, email	1109 S. Marion Ave, Lake City, FL, 32025, 800-749-2967, craig.teal@dot.state.fl.us			
Services commenced by this firm (mm/yy)	9/02	Total consultant contract cost (\$1,000's)		\$21, 505
Services completed by this firm (mm/yy)	Present	Cost of consultant services provided by this firm (\$1,000's)		\$19, 949

This high-profile interstate capacity improvement project widens I-95 through a densely developed corridor, reconstructs the Emerson Street interchange, and replaces aging bridge structures. The scope includes a full reconstruction of the existing concrete pavement, replacing it with new asphalt pavement set at a higher elevation to meet current FDOT/AASHTO design criteria, along with extensive drainage upgrades and complex maintenance of traffic (MOT)/temporary traffic control (TTC) staging to safely maintain operations within this high-AADT corridor. A key feature of the project was the implementation of a Median U-Turn (MUT) interchange, which will enhance traffic flow and safety at a critical junction. WGI's design optimized the interchange geometry to reduce conflict points and improve operational efficiency, while maintaining compatibility with adjacent infrastructure and future improvements. WGI's collaboration with its build partner and innovative concepts was instrumental in improving safety, constructability, and traffic operations. These innovations enhanced the project's phasing and reduced impacts to the traveling public and adjacent communities. Located in a constrained urban corridor, the project requires intricate coordination with numerous utility agency owners.

Team: Bradley Gersh, PE; Brett Fuller, PE; Corey Hill, PE; David Gerber, PE; Keegan Larson, PE; Jeremiah Salymaker, PLS; Michael Mills, PE; Nathan Van Etten, PE; Stephen Clancy, PLS, GISP



Firm name	WGI, Inc. 		Discipline(s)	Road
Project name	Shands Bridge (FCE Phase 2) Design Build		Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	FDOT District 2	
Project location	Duval County		Owner's Project Manager	Craig Teal
Owner's address, phone, email	1109 S. Marion Ave, Lake City, FL, 32025, 800-749-2967, craig.teal@dot.state.fl.us			
Services commenced by this firm (mm/yy)	10/19	Total consultant contract cost (\$1,000's)		\$1,000
Services completed by this firm (mm/yy)	2/24	Cost of consultant services provided by this firm (\$1,000's)		\$650

This \$600M design-build project extends SR 23 (the First Coast Expressway), a limited-access toll facility, from east of CR 16A Spur to east of CR 209 within St. Johns and Clay Counties. This project creates a new tolled divided four-lane roadway and a new partial cloverleaf interchange at the CR 16A Spur. The project's centerpiece is an approximately 9,300-foot-long four-lane bridge over the St. Johns River with a bicycle/pedestrian path and scenic overlooks, replacing the existing Shands Bridge. The new river crossing's 200-foot-wide main span will have a 65-foot vertical clearance, facilitating commercial and recreational use of the river. WGI's three alternative technical concepts included design refinements that eliminated over 1,000 in-water piles, saving tens of millions of dollars, reducing the project's construction duration, and minimizing environmental impacts. WGI's design also reduces embankment and MSE wall area, eliminating the need for 11,000 truckloads of fill. Overall, WGI's design innovations eliminate more than 13,760 truck deliveries, reducing carbon emissions and mobility impacts. The WGI team also enhanced the design of the bridge's pile bents for visual continuity and improved constructability.

Team: Bradley Gersh, PE; Carlos Campos, PE; Jeremiah Slaymaker, PLS; Nathan Van Etten, PE



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

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

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

Team: Laurence Lambert, PE; Brin Ferlito, PE; Reece Rodrigue, PE



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

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

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

Team: Laurence Lambert, PE; Brin Ferlito, PE;
Reece Rodrigue, PE; Kristen Farrington, PE

Applicable for this project {Required (✓)}	Level 2 TMP Components	Stage 0	Stage 1	Stage 3		Workflow Notes
				Preliminary	Final	
				60% Submittal	90% Submittal	
	Analysis			Percent Complete		
	* Detour Analysis	100%				①
	* Queue Analysis according to EDSMVI.1.1.4	100%				①
	Documentation			Percent Complete		
✓	* TTC Details			50%	100%	②
	* TTC Plan (based on type and location of construction)			50%	100%	⑦
	* Mitigation (if the current roadway is LOS F)	60%	100%			④
	* Mitigation (if the roadway is on the Abnormal Crash Location list)	60%	100%			④
	* Evacuation Strategy (if used as an evacuation route)	100%				④
	* Work Restrictions	20%	50%	70%	100%	④
✓	* Basic Public Information release at the District level			60%	100%	⑧

18. APPROACH AND METHODOLOGY:

Introduction and Project Understanding

SDR Engineering Inc (SDR) is well-positioned to provide LADOTD with comprehensive engineering, construction, and advisory services to support the delivery of critical projects. Our core strengths are the depth and breadth of our highly skilled professionals, coupled with our proven track record of successful IDIQ project execution. We offer a full-service team that integrates local knowledge with national expertise and relevant recent experience, enabling successful outcomes regardless of project size or complexity.

Our team is structured for efficiency and effectiveness, and we are committed to supporting DOTD in achieving its vision. SDR brings the expertise, resources, and strategic perspective needed to meet the State's goals while remaining highly responsive to its needs. We understand the importance of these projects to the State's transportation and development objectives, as well as the complexity of funding sources such as grants, bonds, tolling, and other innovative financing mechanisms.

Critical projects typically fall into two categories:

- Those utilizing alternative delivery methods like design-build (DB), public-private partnerships (P3), construction management at risk (CMAR), and progressive design-build (PDB).
- Those requiring conventional engineering services, including road and bridge design, environmental, planning, surveying, construction engineering, and geotechnical analysis.

The following table details our subconsultants' expertise and value for this Critical Bridge IDIQ Contract:

Firm	Services
T. Baker Smith, LLC (TBS)	Environmental and Permitting; Survey; Subsurface Engineering and Utility Relocation; and Roadway Design and Hydraulic Engineering
Ardaman & Associates, Inc. (ARD)	Geotechnical Engineering
Forte and Tablada, Inc. (F&T)	Survey
GSRC	Environmental and Permitting
WGI, Inc. (WGI)	Subsurface Engineering and Utility Relocation; Roadway Design and Hydraulic Engineering; Roadway and Aesthetic Lighting Design; Tolling Implementation, Design, and Support; Alternative Delivery Technical Services; Traffic Engineering and Design
Vectura Consulting Services, LLC (VCS)	Traffic Engineering and Design; ITS Design and Support

Project Organization and Methodology

1

Project Management and Support

Zhiyong Liang, PhD, PE (SDR)

SDR approaches project management and support as the central control function, ensuring every task order is delivered with consistency, accountability, and clarity. Rather than an administrative task, SDR's project management is a disciplined system that directly drives schedule reliability, technical quality, and DOTD's ability to make informed decisions.

SDR integrates project management across all phases, from task order scoping through final delivery, ensuring continuous alignment between DOTD priorities, technical execution, and resource availability. This approach maintains clear direction, consistent progress, and fully aligned expectations.

For each Critical Projects IDIQ task order, SDR assembles a highly qualified, multidisciplinary team aligned with project requirements, combining program-level oversight with dedicated task-level leadership. Senior leadership maintains visibility across all assignments, proactively managing workload, staffing, and priorities to prevent conflicts and maintain performance. Dr. Zhiyong Liang, PE, contract project manager, collaborates closely with DOTD to assign the most qualified task order manager for each project. With more than 18 years of DOTD IDIQ experience, Dr. Liang ensures clear communication, strategic direction, and alignment of objectives across SDR staff and subconsultants.

At the task level, dedicated task managers provide day-to-day coordination, ensuring clear ownership, effective communication, and alignment with scope, schedule, deliverables, and budget. Dr. Liang will provide comprehensive oversight and guidance throughout the project lifecycle, assuring successful task completion and LADOTD's satisfaction.

Each task begins with focused planning that defines scope, milestones, resource needs, and potential constraints. SDR uses structured tools, such as project management plans (PMP) and pre-design coordination, to align stakeholders early and establish a clear execution path. This upfront effort minimizes inefficiencies while allowing flexibility to adjust as conditions evolve. The PMP, jointly developed with DOTD, comprehensively outlines and integrates all critical components, including scope, schedule, cost, quality, human resources, communications, and risk management strategies. This structured framework ensures alignment, accountability, and effective execution throughout the project lifecycle.

Communication is proactive and continuous throughout the project lifecycle. SDR keeps DOTD informed of progress, milestones, and risks, and responds quickly

to issues. For urgent assignments, direct access to key personnel ensures rapid coordination and decision-making. We also support robust stakeholder and community engagement to promote project understanding and alignment.

Working in close collaboration with LADOTD project managers, we will proactively support their delivery of project responsibilities by developing PMPs and initial financial plans (IFP), ensuring that projects achieve required milestones on time and within budget. SDR will assess project cost and schedule risks, as well as value engineering opportunities, during the development of the PMPs and IFPs. This effort will include identifying high expenditure project elements and developing cost-effective solutions that meet the project's purpose, needs, and feasibility requirements. Beyond augmenting their existing staff, our team will provide comprehensive services, specifically tailored and developed in partnership with the DOTD project managers.

Upon notice to proceed (NTP), SDR initiates a project kickoff meeting to confirm the schedule and define task-level execution strategies. We develop a Critical Path Method schedule for the task and maintain schedule adherence, proactive coordination, and recurring meetings to address challenges, incorporate DOTD feedback, and manage progress. Stakeholder engagement remains a priority, with structured outreach efforts integrated into project development.

Following submission of deliverables, SDR remains highly responsive, addressing comments, incorporating feedback, and updating documents promptly. We ensure all deliverables accurately reflect the final project scope and approved changes.

SDR provides comprehensive construction engineering support, including requests for information (RFIs), submittal reviews, field coordination, technical guidance, and oversight during construction. Our team supports construction planning, materials selection, sequencing, and quality compliance while proactively identifying and mitigating risks to minimize delays and optimize outcomes. SDR will also support DOTD in the development of grant applications and agreements, as well as miscellaneous project agreements such as Memoranda of Understanding and Cooperative Endeavor Agreements.

2

Quality Control Reviews and Peer Reviews

Mohsen Shahawy, PhD, PE (SDR)

Independent peer reviews are a critical component of complex projects, offering an additional layer of assurance to safeguard the accuracy and reliability of project deliverables. Leveraging our extensive experience in design services, we provide independent peer reviews of designs and calculations, as well as thorough engineering reviews of plans, reports, and special provisions. The quality control manager will assemble a review team comprised of subject matter

experts (SMEs) from the relevant disciplines, tailored to the specific project requirements. Our peer reviewers are licensed professional engineers with significant experience in the design of comparable projects.

SDR implements a comprehensive Quality Assurance/Quality Control (QA/QC) program, with continuous quality checks during production and formal reviews at key milestones to ensure full compliance with project requirements. Project and task managers are accountable for deliverable quality, supported by independent QA/QC reviews that validate methodologies, assumptions, and recommendations. This integrated approach reduces revisions and supports efficient DOTD review cycles.

SDR applies a multi-level QA/QC framework that includes discipline-specific technical reviews, independent peer reviews, and final quality checks to confirm completeness and compliance with DOTD requirements. This structured yet scalable process ensures consistent quality across all task orders, regardless of complexity or workload.

In quality control reviews, the design checker will meticulously verify the accuracy of the designer's calculations, pay items, reports, and quantities. Reports will include all environmental, traffic, SUE, geotechnical, hydraulic, and other required reports for critical projects. We will rigorously examine all special provisions, including non-standard items, and the cost estimate. The detail checker will comprehensively assess drawings, ensuring they adhere to design information and CAD standards, while also verifying all dimensions and quantity calculations.

QUALITY ASSURANCE/QUALITY CONTROL WORK FLOW



The peer review comments, along with our recommendations, will be submitted to LADOTD and the design team for evaluation. Resolutions will be documented and agreed upon by all parties and will be incorporated into the final design. To formalize the process, a peer review resolution agreement will be signed by the

peer reviewer, the design team supervisor or team leader, and a DOTD representative. A comprehensive comment resolution form will track all comments, involved parties, and final actions, ensuring a transparent and auditable process.

3 Environmental and Permitting Services

Suna Adam (GSRC) and Cy Troups, PE (TBS)

SDR has partnered with **GSRC** and **T. Baker Smith** to assist with environmental and permitting services. The SDR team is fully equipped to deliver comprehensive environmental services, securing project environmental approvals, reevaluations, and permits. We are adept at supporting mitigation compliance, including conducting material sampling and testing to facilitate permit development. We will provide services in support of the National Environmental Policy Act (NEPA) and related laws and regulations according to Title 23 Chapter 1, 40 CFR 1500-1508, the LADOTD 2022 Stage 1 Manual of Standard Practice, and LADOTD Traffic Noise Policy 2019. Permit applications and/or associated supporting documentation, such as Louisiana Coastal Use Permits, Section 404 wetlands and other waters, Section 10 obstructions to navigation, Section 9 bridge permits, and Section 408 modifications to Federal projects, will be developed by our environmental and permitting team.

We will provide comprehensive services to ensure strict adherence to mitigation measures throughout the project lifecycle. This includes continuous monitoring of environmental commitment implementation from the design phase through construction and operational phases. Our team will conduct proactive community outreach and coordination, working closely with LADOTD and relevant stakeholders. This collaborative approach will facilitate effective project administration and foster a positive impact on the communities affected by the project.

Should material sampling and testing be required, we will leverage the expertise of our registered environmental professionals (REPs) specializing in air monitoring, groundwater testing, soil testing, and bridge coatings testing. To ensure comprehensive service delivery, we will either integrate additional team members with specialized skills or manage these services through vendor-based direct expenses, as needed.

4 Traffic Engineering and Design Services

Brin Ferlito, PE (VCS)

SDR has partnered with **Vectura** and **WGI** to assist with traffic engineering and design services. Our team specializes in traffic studies, data collection, traffic modeling, and operational analysis, with significant experience supporting

LADOTD projects. Together, the team brings strong technical expertise and local knowledge to support the traffic study for critical projects.

All traffic data collection will strictly adhere to the standards prescribed in the LADOTD Traffic Engineering Manual, the Federal Highway Administration (FHWA) Traffic Monitoring Guide, the Highway Capacity Manual, and the Manual of Uniform Traffic Control Devices. Our team will employ advanced traffic modeling software, including TranPLAN, TransCAD, CORSIM, and VISSIM, to develop and refine traffic models that support data-driven decision-making and comprehensive evaluation of project alternatives. Following model development, we will perform a comprehensive traffic control analysis and design to compare and optimize proposed solutions. Intersection analyses will be conducted using HCS, Synchro, and SIDRA, while geometric design reviews will be completed in accordance with the defined project scope.

A key strength of our approach is the close coordination among traffic, structural, and roadway disciplines. Traffic control strategies and staging plans are continuously refined as design progresses, ensuring solutions remain practical and constructible. This is particularly critical for bridge and roadway projects, where maintaining traffic during construction is essential.

Our team places strong emphasis on transportation management plans (TMP) and construction phasing strategies that balance safety, mobility, and constructability. TMPs will be developed in accordance with engineering directives and standards (EDSM) VI.1.1.8 and will consider TTC details, traffic volumes, site constraints, and safety for both the public and construction personnel, leveraging the SDR team's experience working in active transportation corridors. When historic traffic data is not available, we will follow the Traffic Study Scope of Services published on the LADOTD Traffic Engineering website.

Access justification reports (AJR), including those developed through interchange justification reports (IJR) or interchange modification reports (IMR), will be prepared using methodologies consistent with FHWA approval requirements, as outlined in the National Highway Institute course, "NEPA and the transportation decision-making process." All deliverables will be meticulously prepared to align with the LADOTD traffic engineering process and report guidelines, assuring full compliance with the Department's standards.

5

Surveying Services

Jean Reulet, III, PLS (TBS) and Bradley Holleman, PE (F&T)

SDR has partnered with **T. Baker Smith, LLC** and **Forte & Tablada, Inc.** to assist with surveying services. The SDR team is equipped to deliver a full range of surveying services needed for design in this contract. This includes performing

boundary, topographic, lidar, and bathymetric surveys, as well as generating drainage maps.

Primary control monuments will be placed in stable, long-lasting locations using durable materials and will be referenced to the NAD83 and NAVD88 datums. If necessary, the team is also capable of installing deep rod monuments. Vertical control will follow LADOTD procedures, including a closed level loop. Once the control network is established, a horizontal and vertical control sketch will be submitted for approval.

Topographic survey work will start upon approval of the control sketch and will meet LADOTD standards. Lidar technology will be utilized for data collection along high-traffic corridors and, when necessary, to collect sufficient detail of bridge features. When mobile lidar is utilized, it will adhere to the specifications outlined by both California DOT and LADOTD. The SDR team also has strong capabilities in performing hydrographic surveys, using a variety of methods such as single-beam, multi-beam, and side-scan sonar. All utilities within the project scope will be located and mapped, with quality levels equivalent to at least Level D or C, based on CI/ASCE Standard 38-02. Final deliverables will align with LADOTD's requirements for topographic survey submissions.

The property survey phase is the initial step in creating a right-of-way map and begins with a title takeoff. This component, along with the property survey plat, forms part of the deliverables for the property survey phase and is drafted in accordance with LADOTD's Addendum "A." Once the design engineer finalizes the 100% preliminary construction plans, the base right-of-way mapping process can begin. A 60% base map is created, aligning with these plans, and submitted following LADOTD standards. After this submission, a joint plan review is conducted, and any necessary revisions are incorporated into a final check print set. The last step involves producing the final right-of-way maps and a final parcel input file using the CogoWin system from LADOTD, ensuring that all metes and bounds descriptions are consistent with the right-of-way mapping and will meet LADOTD accuracy requirements, ensuring readiness for real estate parcel acquisition.

6

SUE and Utility Relocation

TJ Stokes, PE (TBS)

SDR has partnered with **T. Baker Smith** and **WGI** to assist with SUE and utility relocation services. Recognizing the frequent presence of utilities within transportation corridors, the team proactively identifies and mitigates potential utility impacts to reduce risk to cost, schedule, and constructability. Our team utilizes the expertise of survey firms to provide comprehensive SUE services, adhering to ASCE 38-22 standards and executing Quality Level A-D investigations. The designated SUE Task Lead will oversee the SUE crew,

ensuring all field data undergoes rigorous review from project inception. The SDR team will initiate the SUE process by submitting a Louisiana One Call ticket to identify the initial list of utility owners within the project limits. Subsequently, we will procure record drawings and as-built documentation from each identified utility. This information is crucial for ASCE 38-22 Quality Level D and C assessments and will be integrated into our comprehensive QA/QC protocols.

The SUE team will collaborate closely with the LADOTD task manager to ensure precise excavation targeting at the identified utility locations. All field data, including SUE findings and survey information, will be processed to meet LADOTD CAD standards using MicroStation and InRoads. Extensive coordination with utility owners is critical for comprehensive data collection, which is essential for developing the utility conflict matrix. This matrix, initially delivered with the 60% preliminary plans, will be iteratively updated throughout the design process. The matrix will document utility owner contact information; utility size, material, and type; precise conflict locations; proposed utility dispositions; right-of-way occupancy requirements; agreement status; and relocation or adjustment progress, as applicable. Our team prioritizes proactive avoidance of utility conflicts and relocations to minimize cost impacts and schedule delays.

Upon completion of data QA/QC, we will perform linework cleaning, attribute population, and surface creation. We will then validate data against the Survey Manual and ensure all deliverables meet CAD standards. The finalized DGN files, hard copy SUE deliverables (signed and sealed by a Louisiana-licensed professional engineer), survey reports, field notes, and supporting documentation will undergo a final review by the project manager before delivery.

7

Geotechnical Engineering Services

Megan Bourgeois, PE (ARD)

The SDR team views geotechnical engineering services as vital to informing design decisions and ensuring the long-term performance of infrastructure. We focus on seamless integration with qualified subconsultants to align with DOTD expectations. SDR has partnered with **Ardaman & Associates, Inc.** to assist with geotechnical services.

Ardaman specializes in geotechnical engineering, including field investigations and laboratory testing, foundation evaluation and development of design criteria, geotechnical performance monitoring, and construction quality assurance inspection and testing. Ardaman brings a wealth of experience in the transportation and infrastructure arena with its long-standing relationship with LADOTD.

By involving the geotechnical team early, SDR facilitates project planning and minimizes uncertainty about subsurface conditions. This approach ensures that foundational aspects and potential geotechnical constraints are incorporated into

engineering decisions, preventing costly redesigns. The SDR team offers comprehensive geotechnical services, including:

Geotechnical Field Investigations: Deep and shallow borings and cone penetration tests (CPTs) adhering to ASTM standards, LADOTD-driven pile design and verification using load resistance and factor design (LRFD), American Association of State Highway and Transportation Officials (AASHTO) LRFD Bridge Design Specifications, and FHWA-IF-02-034 GEC 5.

Geotechnical Laboratory Testing and Analysis: Performed in accordance with ASTM standards, LADOTD-driven pile design and verification using LRFD, AASHTO LRFD Bridge Design Specifications, and FHWA-IF-02-034 GEC 5.

Geotechnical Analysis and Design: Utilizing software such as SEEQUENT Geostudio 2023.1.1, Ensoft APILE 2019, Ensoft SHAFT 2023, Ensoft LPILE 2022, and Rocscience Settle3, and compliant with LRFD Bridge Design Specifications and current FHWA Geotechnical Engineering Circulars.

We offer a full suite of construction-related services tailored to each project's unique requirements, including expert field construction monitoring and in-depth analysis. Our experienced construction support team is committed to delivering these services with the highest standards of quality and efficiency.

8

Roadway Design and Hydraulic Eng. Services

Kenny Belou, PE (TBS)

SDR has partnered with **T. Baker Smith** and **WGI** to assist with roadway design and hydraulic engineering services. The SDR team possesses extensive experience collaborating with LADOTD, including close coordination with the location and survey, road design, and bridge design sections. This experience allows us to efficiently develop and submit deliverables that meet all LADOTD standards and expectations. Simultaneously with the topographic survey, we will conduct a comprehensive review of all available existing data. This review will include as-built plans, previous studies, design documents, shop drawings, and maintenance records. Our analysis will specifically target existing geometry, traffic patterns, utility infrastructure, and any other relevant datasets. This integrated approach ensures a seamless and efficient transition into the preliminary design phase, minimizing potential conflicts and optimizing project outcomes.

Project-specific design criteria will be developed for each site, submitted to LADOTD for review and approval, and maintained as a living document throughout the project lifecycle. The criteria will follow the structure outlined in Appendix A – Design Criteria Checklist of the LADOTD Bridge Design and Evaluation Manual (BDEM). As project conditions evolve, the design criteria will be updated accordingly to ensure continued alignment with LADOTD requirements.

Roadway engineering design will strictly adhere to the latest industry standards and guidelines, encompassing LADOTD roadway design procedures and Details, the LADOTD EDSMs, the AASHTO policy on geometric design of highways and streets, and the AASHTO Roadside Design Guide. CAD Conform software will be utilized to generate compliant plans that fully meet LADOTD CAD standards.

Upon receipt of the environmental decision and issuance of the NTP for final plans, we will initiate the development of 30%, 60%, 95%, 98%, and 100% Final Plans. If desired, a compressed schedule may be developed to meet specific project needs. Roadway design will be completed using Bentley Power InRoads (SS2). Cost estimates will be generated using LADOTD standard bid items and historical bid data, tailored specifically to the project. A plan-in-hand review at the 95% stage will facilitate stakeholder feedback integration, considering project-specific site conditions and item quantities.

When required, hydraulic analyses will be conducted using HEC-RAS to evaluate the performance of existing and proposed water-crossing structures. Structure type, size, and placement will be designed to minimize hydraulic impacts while ensuring safe and efficient conveyance. A final hydraulic analysis report will be submitted to LADOTD for review, and all analyses will comply with the LADOTD Hydraulics Manual, BDEM, and the LADOTD Hydraulic Design Guidelines for the Off-System Bridge Program, as applicable.

9

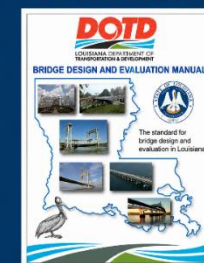
Bridge Design Services

Zhiyong Liang, PhD, PE (SDR)

SDR integrates bridge design efforts closely with inspection findings, load rating analyses, and field observations. Our team has performed load rating analyses on more than 1,900 bridges across a wide range of structure types, including concrete, steel, truss, and complex systems, providing a strong foundation for developing informed and targeted design solutions. We have also completed major in-depth inspections of multiple truss bridges spanning the Mississippi River and developed repair plans as needed. This direct connection between evaluation and design allows SDR to develop recommendations that are clearly aligned with actual structural conditions and performance needs, rather than relying on generalized assumptions.

SDR has contributed significantly to advancing bridge engineering standards in Louisiana. The firm was entrusted by LADOTD to develop the BDEM and the

SDR PROJECT HIGHLIGHTS



SDR was honored to be entrusted by LADOTD to develop the Bridge Design and Evaluation Manual (BDEM) and the LG/LU girder standard details.

standard details for Louisiana LG and LU girders, reflecting its technical expertise and professional reliability. SDR's research, innovation, and leadership in code development provide tangible benefits to Louisiana's transportation infrastructure by ensuring standardized, high-quality bridge designs statewide.

For projects involving the assessment of existing structures, the SDR team will adhere to the guidelines outlined in Chapter 6 of the Louisiana BDEM. Our approach includes a comprehensive review of existing documentation, a detailed field inspection, and rigorous load rating analyses incorporating field conditions and findings, to determine the overall condition and serviceability of the existing structures. These findings will be synthesized into a comprehensive bridge evaluation report that provides clear, actionable recommendations. At LADOTD's direction, inspection results will be entered into the InspectX software system maintained by the Bridge Maintenance and Inspection Division.

SDR has extensive experience in rehabilitation projects of major bridges and accelerated bridge construction. SDR has also developed alternative rehabilitation solutions through bridge load testing. This process has consistently led to either increased load ratings with reduced rehabilitation needs or the elimination of unnecessary load posting restrictions.

All bridge and structural analysis and design services will comply with the current BDEM and applicable Bridge Design Technical Memoranda (BDTM). Design projects will include as-designed load ratings upon final plan completion and as-built load ratings upon construction completion. We will utilize AASHTOWare Bridge Rating (BrR) for comprehensive superstructure evaluations and LEAP Concrete, STAAD.pro, and Microsoft Excel for detailed substructure analyses, ensuring accurate as-designed, as-built, and condition bridge ratings.

For all new bridge projects, our team will deliver structural designs fully compliant with the AASHTO LRFD Bridge Design Specifications, the BDEM, and all applicable BDTM. All submittals will strictly adhere to Appendix K – Consultant Submittal Checklist requirements for the 60%, 90%, and 100% preliminary and final plan stages.

To ensure timely project completion, we will proactively manage the deliverables schedule. Our team's proven experience with similar projects for the department enables us to efficiently deliver plans at the 95% final submittal stage, fully compliant with LADOTD standards.

Past Projects of Major Bridges or Utilizing Accelerated Bridge Construction Techniques

LA 27 over ICWW (Bridge rehabilitation)
US 90 (Claiborne) over City Streets (Bridge Load Testing, Removing Posting)
I-10 over UPT R/R (Bridge Load Testing Removing Posting)
LA 27 over I-10 (Emergency Bridge Repair and Girder Replacement)
US 190 over US61 (CFRP Strengthening)
I-10 High Rise Fire Damage (Emergency Bridge Repair)
LA 182 over Atchafalaya River (Bridge Rehabilitation and CFRP strengthening)
US 90 Westbank Expressway (Bridge Replacement)
I-10 over US 165 (Bridge Replacement)
US 190 over the Mississippi River (Bridge Inspection and Rehabilitation)
US 80 over Red River (Bridge Rehabilitation and CFRP strengthening)

10

Plan Development & Letting Support Services

Zhiyong Liang, PhD, PE (SDR)

Due to the nature of an IDIQ contract, SDR anticipates task order assignments will vary in scope and schedule. We offer an extremely diverse range of capabilities and the ability to execute multiple task orders concurrently. All team members are intimately familiar with the DOTD bid process and will proactively address bidder inquiries, providing timely and accurate updates to contract documents. This support includes, but is not limited to, prompt responses to contractor inquiries, the meticulous preparation and dissemination of plan addenda, clear and concise technical clarifications, and detailed bid analyses. SDR is well equipped to manage the dynamic nature of an IDIQ contract while maintaining consistent quality and schedule performance across concurrent task orders.

Our team is committed to collaborating with DOTD to ensure all assigned task orders are executed efficiently and surpass expectations. We understand that task orders may range from providing focused support for specific plan

development elements to delivering comprehensive project services. For each task order, plan development and construction support will be performed by a dedicated team assembled to match project requirements. Plan development will adhere to the preliminary and final plan stages outlined in the Road Design Manual, BDEM, and all relevant software and electronic plan standards, unless an accelerated schedule is authorized and approved.

Throughout plan development, the project team lead will schedule, conduct, and participate in all required plan review meetings, including plan-in-hand, joint, and final reviews. Plan-in-hand meetings will follow 95% preliminary plan submissions. Joint plan reviews will follow base right-of-way map submissions and 100% preliminary plan reviews. Final plan reviews will occur between the 95% and 98% final plan and cost estimate submissions.

SDR has a proven record of successfully partnering with DOTD to accelerate design schedules, as demonstrated by our experience delivering emergency bridge replacement and rehabilitation projects. We routinely manage multiple concurrent task orders while meeting aggressive deadlines. Leveraging our extensive experience in previous accelerated project delivery, we consistently meet stringent deadlines. We excel at proactive collaboration with DOTD, facilitating timely adjustments to milestones and reviews to expedite project delivery. Our team is also prepared to proactively identify, assess, and mitigate internal and external risks, ensuring schedule adherence and rigorous progress monitoring.

11

Construction Support

Osama Elsaad, PE (SDR)

The SDR team possesses comprehensive capabilities for providing construction-related engineering support services. This support encompasses a range of activities, including thorough review of construction drawings and timely responses to RFIs, all meticulously performed in alignment with the BDEM, Road Design Manual, and Louisiana Standard Specifications for Roads and Bridges. Additionally, our team will conduct detailed evaluations of value engineering proposals and contract proposals, adhering to the LADOTD design-build manual, FHWA requirements, and LADOTD EDSM I.1.1.18.

For alternative delivery projects, we will manage non-conformance reports (NCRs), ensuring rapid review, corrective actions, and stakeholder

CRITICAL PROJECT SCHEDULE



communication. We will assess contract compliance and propose precise document edits to align with NCR resolutions.

12

Other Services

Tolling Implementation, Design, and Support Services

David Gerber, PE (WGI)

SDR has partnered with **WGI** to assist with tolling implementation and design services. Our team brings the experience and technical capabilities needed to deploy intelligent tolling systems that address critical industry challenges, including revenue collection, roadway condition monitoring, incident detection, and enforcement support. These advanced systems help minimize revenue leakage through modern, automated operations while enhancing the user experience through reliable, customer-focused pricing strategies.

ITS Design and Support Services

Reece Rodrigue, PE (VCS)

SDR has partnered with **Vectura Consulting Services** to assist with ITS design services. The team provides comprehensive ITS design and support services, delivered either through individual task orders or a programmatic approach aligned with DOTD's project steering committee objectives. This flexibility enhances transportation system operations while supporting Louisiana's critical needs, including hurricane evacuation planning.

Our team brings extensive experience in ITS and roadway lighting design, demonstrated across numerous recent projects. Each ITS effort begins

with the development of a comprehensive systems engineering analysis report (SEAR), establishing a strong foundation for project delivery.

We work collaboratively with the DOTD, the FHWA, and other key stakeholders throughout the review process to ensure all feedback is incorporated. Upon SEAR approval, we proceed with detailed ITS design and plan development. Our deliverables, including preliminary and final designs, are tailored to meet the specific requirements of the ITS project and fully integrate with related disciplines such as bridge, geotechnical, and electrical engineering.

Roadway and Aesthetic Lighting Design

Brett Fuller, PE (WGI)

SDR has partnered with **WGI** to assist with roadway and lighting design services. Our process begins with a comprehensive photometric analysis to determine optimal lighting layouts. Once approved, we proceed with detailed plan development and electrical design, ensuring full compliance with applicable standards and guidelines, including the DOTD Highway Lighting Systems Guide; NEMA electrical design standards; DOTD guidelines for constructing, operating, and maintaining highway lighting systems; and the AASHTO Roadway Lighting Design Guide.

Graphic Design and Professional Presentation Material Development

Linda Hess, PE, PTOE, RSP1 (WGI)

SDR and WGI recognize that effective communication is critical to the successful delivery of transportation projects. We provide professional graphic design and presentation development services that transform complex technical information into clear, visually engaging materials tailored to diverse audiences. Our team develops high-quality exhibits, renderings, infographics, maps, fact sheets, public meeting displays, executive briefings, and presentation materials that support project development, stakeholder engagement, and decision-making processes.

We work closely with project managers, engineers, and technical specialists to ensure all visual materials accurately represent project conditions, alternatives, schedules, and anticipated impacts. Whether supporting public outreach efforts, executive presentations, grant applications, project steering committees, or alternative delivery procurement activities, WGI delivers professional communication products that effectively convey key messages and enhance stakeholder understanding.

Public Relations and Communication Advisory Services

Zhiyong Liang, PhD, PE

SDR provides public relations and communication advisory services that support successful project delivery through proactive stakeholder engagement and clear, consistent communication. We assist LADOTD in developing communication plans, public outreach strategies, project messaging, and stakeholder engagement activities tailored to project-specific needs.

Working closely with LADOTD staff, community leaders, partner agencies, and the public, we support public meetings, stakeholder coordination, issue management, media communications, and public information campaigns. Our goal is to promote project understanding, address concerns proactively, and foster productive relationships that support efficient project advancement and successful implementation.

Alternative Delivery Technical Services

Keegan Larson, PE (WGI)

When faced with the need to expedite key infrastructure projects, exploring alternative delivery methods represents a powerful strategy. Leveraging our deep understanding of DB, PDB, CMAR, and P3, SDR's team offers comprehensive expertise in these areas, having performed as an Owner's Representative for alternative delivery projects and as lead designer on projects under each of these delivery methods. A crucial differentiator among alternative delivery methods is the timing of contractor involvement, recognizing the importance of factors such as project funding, schedule constraints, and the stage of project development. To provide valuable alternative delivery technical services, a full-scale comprehension and understanding of the strengths and challenges of each delivery method is vital.

We evaluate critical factors such as funding, schedule constraints, and project development stage to determine the most effective delivery strategy. By understanding the advantages and limitations of each method, we will collaborate with DOTD to select the approach best aligned with each project's specific needs.

SDR TEAM COMMITMENT: SDR and its subconsultant partners are committed to supporting LADOTD with the expertise, resources, and responsiveness needed to successfully deliver critical transportation projects across Louisiana. Backed by extensive LADOTD experience and a multidisciplinary team of industry professionals, we are prepared to provide high-quality technical services, proactive project management, and reliable support throughout the duration of this contract.

19. WORKLOAD:

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
SDR Engineering Inc 	Bridge	44-21595, H.009859	Load rating of 300 bridges	\$7,444
		44-31060, H.01248	Load rating of 117 bridges (Off-System)	\$120,392
		44-30996, H.011487	Berwick Bay Bridge Rehab (Construction Support)	\$3,836
		44-30996, H.010015	H.010015.5 -La 143 Bayou D'arbonne Bridge	\$2,486
		44-30996, H.012028	I-20: Lake Shore Drive/KCS Overpass Rehab (Phase I)	\$25,600
		44-27650, H.016525	H.016525.5-US 80: Mile Creek Bridge Repair	\$28,852
		44-30996, H.014281	US 190: Miss River Br Repair Ph. 3 (HBI)	\$437,945
T. Baker Smith, LLC 	Bridge	4400025027 / Multiple S.P. No's	IIJA Off-System Bridge Program	\$24,679
	CE&I/OV	4400025760 / H.011137	I-12: LA 1077 to LA 21 (CE&I)	\$427,546
	CE&I/OV	4400031038 / H.015308	I-49: I-10 - St. Landry P/L	\$197,203
	Environmental	4400019336 / Multiple S.P. No's	Rural Bridge Replacement Initiative Phase II	\$13,804
	Environmental	4400025027 / Multiple S.P. No's	IIJA Off-System Bridge Program	\$28,021
	Environmental	4400031920 / H.008069	Peters Road Bridge & Extension (Phase 3)	\$180,527
	Other (Construction Support)	4400013203 / H.001344	US 190: LA 437 to US 190 Bus (Ph 1)	\$9,460
	Other (Construction Support)	4400025027 / Multiple S.P. No's	IIJA Off-System Bridge Program	\$102,090
	Other (Contract Management)	4400019336 / Multiple S.P. No's	Rural Bridge Replacement Initiative Phase II	\$3,988

T. Baker Smith, LLC  T. BAKER SMITH	Other (Contract Management)	4400025027 / Multiple S.P. No's	IIJA Off-System Bridge Program	\$22,225
	Road	4400025027 / Multiple S.P. No's	IIJA Off-System Bridge Program	\$40,224
	Road	4400024928 / H.015576 (Task Order #1)	LA 447 @ LA 1025: Roundabout	\$9,521
	Road	4400024928 / H.015587 (Task Order #3)	LA 3211 @ Yokley Road Roundabout	\$114,621
	Road	4400024298 / H.016095 (Task Order#4)	LA 70 Rehab: Marguerite St to US 90	\$7,870
	Road	4400024928 / H.015485 (Task Order #6)	LA 3187: LA 13 - LA 13	\$129,892
	Road	4400024928 / H.010795 (Task Order #7)	LA 42: Roundabout at Joe Sevario Road	\$81,440
	Survey	4400025027 / Multiple S.P. No's	IIJA Off-System Bridge Program	\$8,484
	Survey	4400021973 / H.011242	LA 384 (Big Lake Rd to McNeese St)	\$519,250
	Survey	4400024928 / H.015485	LA 3187: LA 13 - LA 13	\$63,857
	Survey	4400031920 / H.008069	Peters Road Bridge & Extension (Phase 3)	\$301,303
	Survey	4400021973 / H.013818	LA 308: B Lafour MB RH(Golden Meadow)(HBI)	\$55,667
	Other (Subsurface Utility Engineering)	4400025511 / H.011242.5	LA 384	\$620,767
	Other (Subsurface Utility Engineering)	4400025511 / H.010005.5	LA 733 VRMLN R MB RH	\$43,841
	Other (Subsurface Utility Engineering)	440002551 / H.011923.5	Hooper Rd: Roundabout at Sullivan Rd	\$36,523
		44-4128; H.004273	I-49 Connector, Lafayette	\$740,206
		44-18899; H.004791	LA 23: Belle Chasse Bridge & Tunnel (HBI)	\$45,666

Ardaman & Associates, Inc. 	Geotech	44-19013; H.004100.5 & .6	I-10 CMAR Design Continuation: LA 415 TO ESSEN ON I-10 & I-12	\$925,025
		H.004435	I-12 to Bush Construction Phase	\$39,040
		44-8671; H.009266	I-10 Widening: LA 73 to LA 30	\$46,811
		44-8671; H.009266	I-10 Widening: LA 73 to LA 30	\$46,811
		44-6189; H.004647.6	I-20 Mississippi River Bridge at Vicksburg	\$1,270,473
		44-25025; H.015452, H.015453, H.015456, H.015458	IIJA	\$19,887
		44-21519; H.012030.5	KCS RR Overpasses US 371	\$39,877
		44-21887; H.012542, H.012453, H.012047	Replacement of 15 Bridges	\$240,616
		44-6189; H.016313.5, H.016314.5	Culvert Replacements	\$3,371
		H.015430	IIJA	\$3,192
		H.001798	LA 531: Bridges Near Dubberly	\$12,533
		H.016094	US 371: Brushy Creek Bridge	\$36,357
		H.016204	Benton Sidewalks & RR Crossing	\$8,550
Forte and Tablada, Inc. 	Survey	4400021594/H.011965.6	Task Order No. 2 - IWGO Bridge Rehabilitation (Drone Flyover)	\$47,688
	Bridge	4400021594/H.009859.5	Task Order No. 6 - Load Rate Selected Statewide Bridges	\$868,594
	Bridge	4400021594/H.009730.5	Task Order No. 8 - In-Depth Bridge Inspections	\$110,464
	Bridge	4400021594/H.015546.6	Task Order No. 9 - Caplis Sligo Road Over Red Chute Bayou	\$5,244
	Bridge	4400021594/H.009859.5	Task Order No. 10 - Statewide Bridge Rating	\$862,237
	Bridge	4400023921/H.015519.6	Task Order No. 5 - Smith Road over Red Chute Bayou	\$9,024

Forte and Tablada, Inc. 	Bridge	4400024589/H.014990.5	OSBR S. Tiger Bend Rd & East Achord Rd Bridges	\$41,837
	Bridge	4400013387/H.013137.5	OSBR Ouachita	\$23,249
	Bridge	4400019864/H.014318.5	OSBR Gurney Road Bridges	\$4,708
	Bridge	4400025037/H.014994.5	OSBR Bonne Idee Rd over Bonne Bayou	\$3,487
	Bridge	4400024586/H.014981.5	OSBR Hosston River Road	\$5,689
	Road	4400024641/H.005734.5	LA 447 Corridor	\$300,449
	CE&I/OV	4400023837/H.013714.6	Valhi Blvd Shared-Use Path (Houma)	\$65,411
	Survey	4400021532/H.010116.5	LA 1088: Soutl & Trinity Roundabouts	\$22,187
	Survey	4400021532/H.012059.5	LA 19: Bridges near Zachary	\$19,490
	Survey	4400021532/H.013195.5	LA 98 Curve Realignment	\$6,464
	Survey	4400021532/H.005734.5	LA 447 Corridor Study	\$109,275
	Survey	4400021532/H.012563.5	LA 73: Bayou Manchac Bridge (HBI)	\$461
	Survey	4400027919/H.015587.5	LA 3211 @ Yokley Rd Roundabout	\$7,031
	Survey	4400021532/H.004100.5	I-10: LA 415 to Essen on I-10 & I-12	\$102,019
	Survey	4400031906/H.004791.6	LA 23: Belle Chasse Bridge & Tunnel (HBI)	\$174,018
	Survey	4400030630/H.015724.5	Kings Hwy: Healthcare & Dev Corridor	\$42,039
	Survey	4400025029/H.015341	D61(EBR) IJA Off-System Bridge	\$53,978
	Survey	4400025029/H.015341	D61(EBR) IJA Off-System Bridge - SA 3	\$9,113
	Survey	H.004100	I-10 Capital Corridor	\$4,240
	Survey	4400004128/H.004273.5	I-49 Connector Additional ROW	\$6,692
	Survey	4400031228/H.015469.5	Shreveport Pavement Program	\$44,235
Gulf South Research Corporation 	Environmental	H013284	Mississippi River Bridge South Central	\$1,400

Vectura Consulting Services, LLC VECTURA	CE&I/OV	4400020018 H.007160	EBR Computerized Traffic Signal, Ph VB	\$23,595
	Traffic	4400025299 H.01564.5	LA 47 Hayne Blvd Safety Improvements	\$9,437
	Traffic	4400018271 H.014746.5	LA 383 Stage 0 Corridor Study	\$20,146
	Traffic	4400025299 H.014305	US 61: Cardinal Dr to Bert St	\$6,203
	Traffic	4400026026 H.016037	LA 1138-1 & LA 1138-2: Corridor Improvements	\$142,847
	Traffic	4400025299 H.016437.5	US 190: Wooddale to Livingston P/L Study	\$43,652

DO NOT SUM

20. CERTIFICATIONS/LICENSES:

Mohsen Shahawy, PhD, PE



Mead & Hunt

In cooperation with the
Louisiana Department of Transportation & Development
presents this

Certificate of attendance and participation for:

Mohsen Shahawy

Training Course:
Maintenance and Rehabilitation of Historic Bridges

Transportation Training and Education Center
4099 Gourrier Avenue, Room 175
Baton Rouge, Louisiana 70808

Please select the date you attended the course:

☐ Tuesday, April 12, 2016
☐ Wednesday, April 13, 2016
☐ Tuesday, May 10, 2016
☐ Wednesday, May 11, 2016
☒ Tuesday, June 7, 2016
☐ Wednesday, June 8, 2016

You have earned 8 PDH units that can be applied to applicable continuing education requirements for professional engineering licensure.

Dr. Amy Squibb
Mead & Hunt Instructor
Amy Squibb

Daniel Q. Berry
Mead & Hunt Instructor
Daniel Berry, PE, SE

Zhiyong Liang, PhD, PE



National Highway Institute

Certificate of Training

Zhiyong Liang
has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Indiana Department of Transportation

Date: December 1-4, 2020
Location: Virtual Delivery, MI

Hours of Instruction: 18

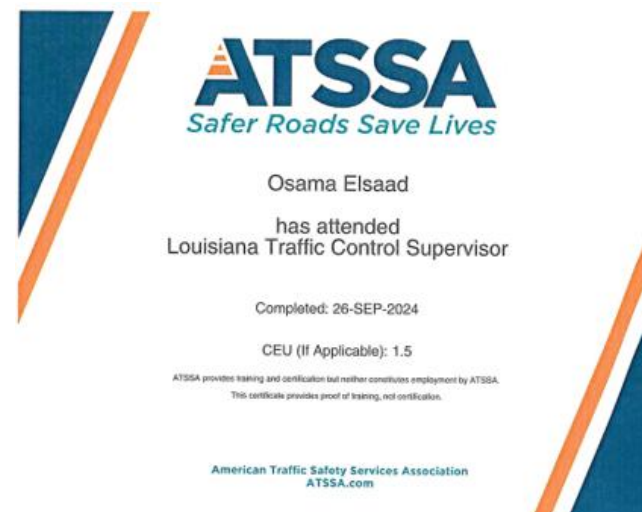
William Dittich
Local Coordinator

Thomas Harman
Thomas Harman, Director
National Highway Institute

Tom Harman
Instructor

Tom Harman
Instructor

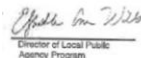
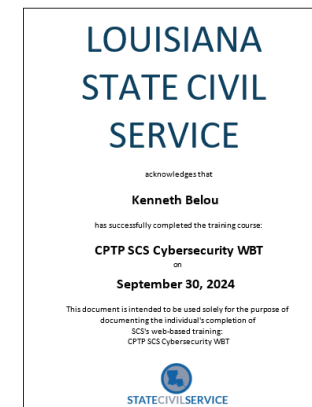
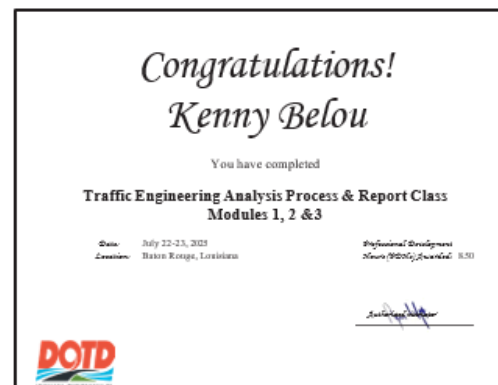
Osama Elsaad, PE



Feng Xie, PhD, PE



Kenny Belou, PE



May 6, 2015
Date
Baton Rouge, Louisiana
Location

May 6, 2015
Date
Baton Rouge, Louisiana
Location

May 6, 2015
Date
Baton Rouge, Louisiana
Location

Kelly Radecker, PE



LOUISIANA STATE CIVIL SERVICE

acknowledges that

Kelly Born Radecker

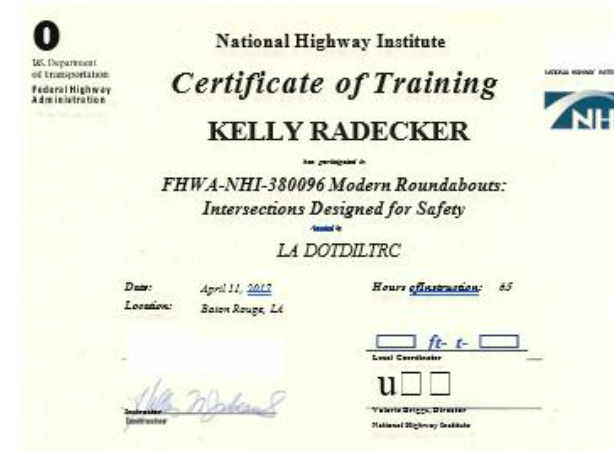
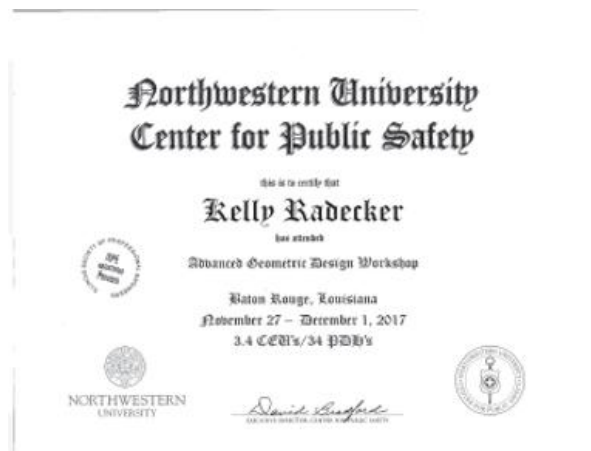
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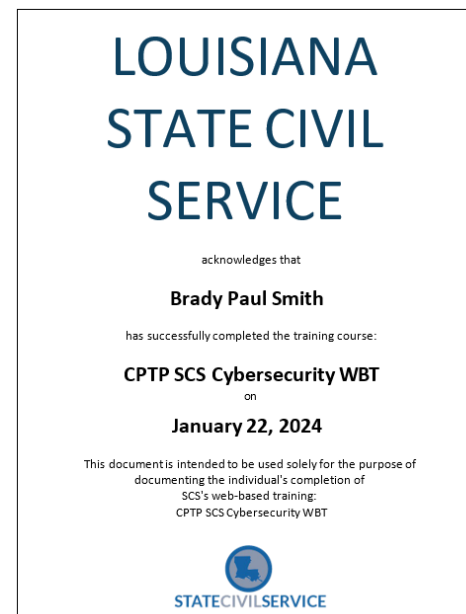
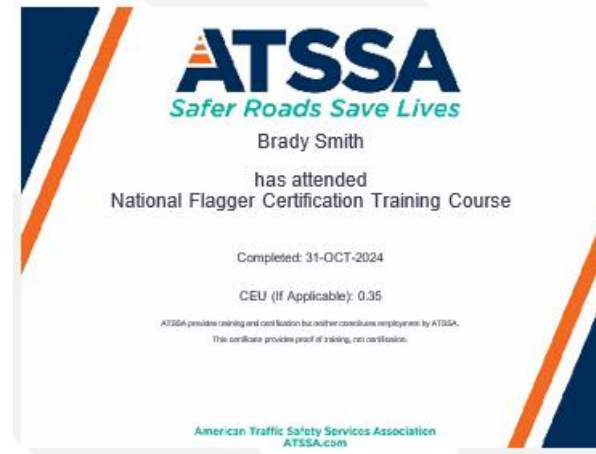
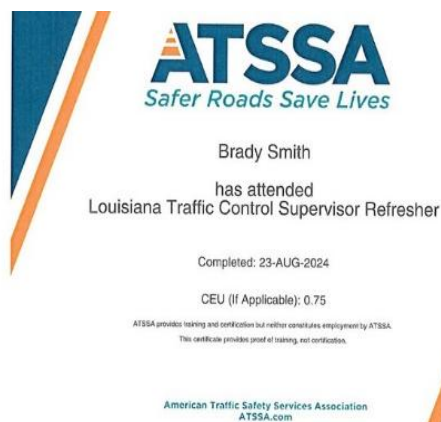
on

January 18, 2024

This document is intended to be used solely for the purpose of
documenting the individual's completion of
SCS's web-based training:
CPTP SCS Cybersecurity WBT



Brady Smith, PE, PMP



Daniel Binet, PE



LOUISIANA STATE CIVIL SERVICE

acknowledges that

Daniel Joseph Binet

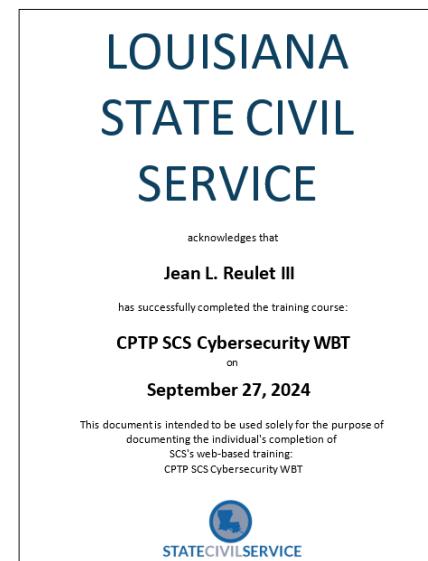
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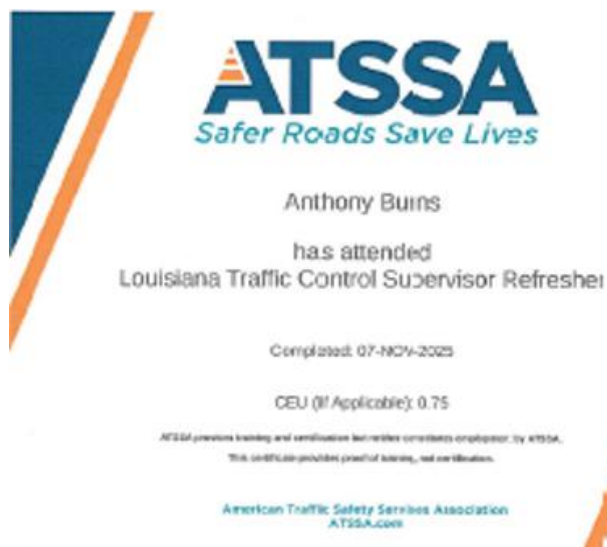
January 25, 2024This document is intended to be used solely for the purpose of
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Jean Reulet, III, PLS



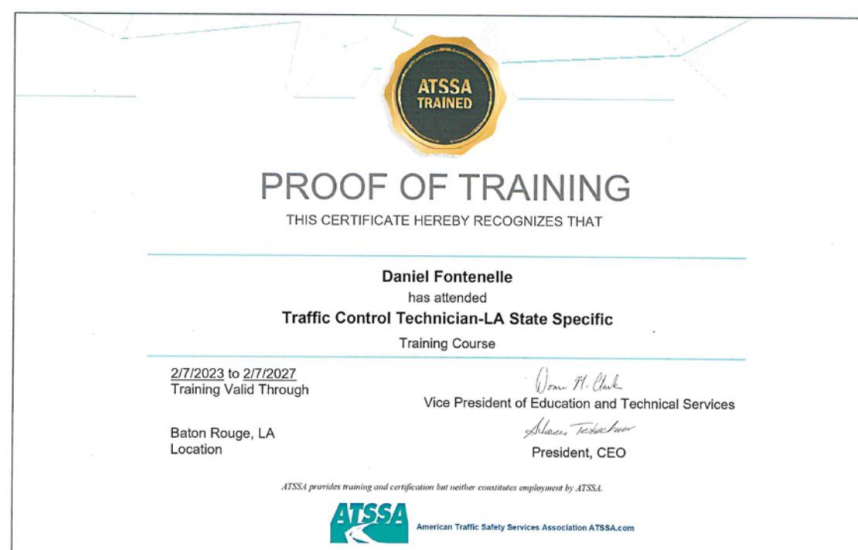
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TRAINING & CERTIFICATION RESOURCES & TOOLS CHAPTERS & COMMITTEES NEWS & EVENTS GOVERNMENT RELATIONS Q						
Search Results						
Contact	Program	Beg Date	End Date	ATSSA Flagger Number	Trainer Flagger Number	
Jean Reulet	National Flagger	2/4/2026	2/3/2030	A1000403566		

Anthony Burns



Kaleb Brooks



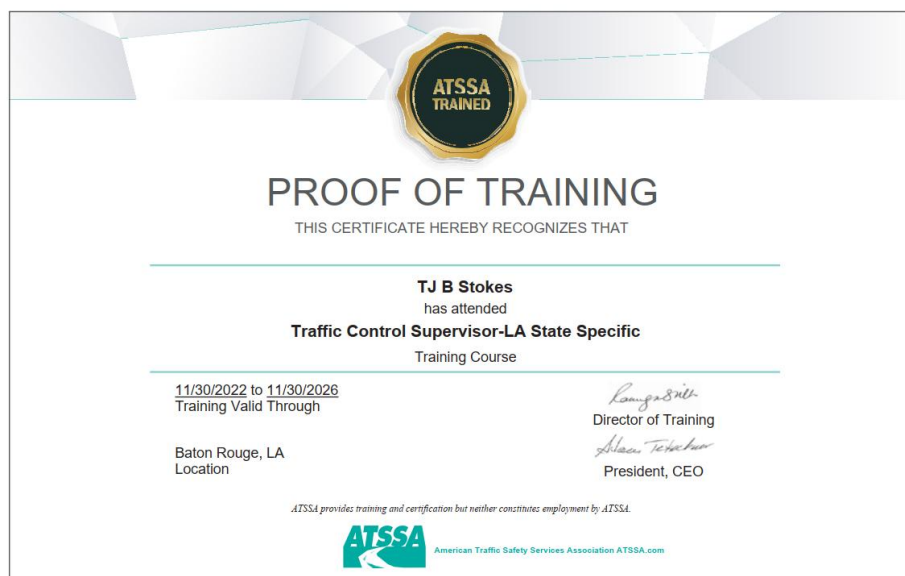


Ryan DiSalvo, PLS



Contact	Program	Beg Date	End Date	ATSSA Flagger Number	Trainer Flagger Number
Ryan DiSalvo	National Flagger	2/24/2026	2/23/2030	A1000409998	

TJ Stokes, PE



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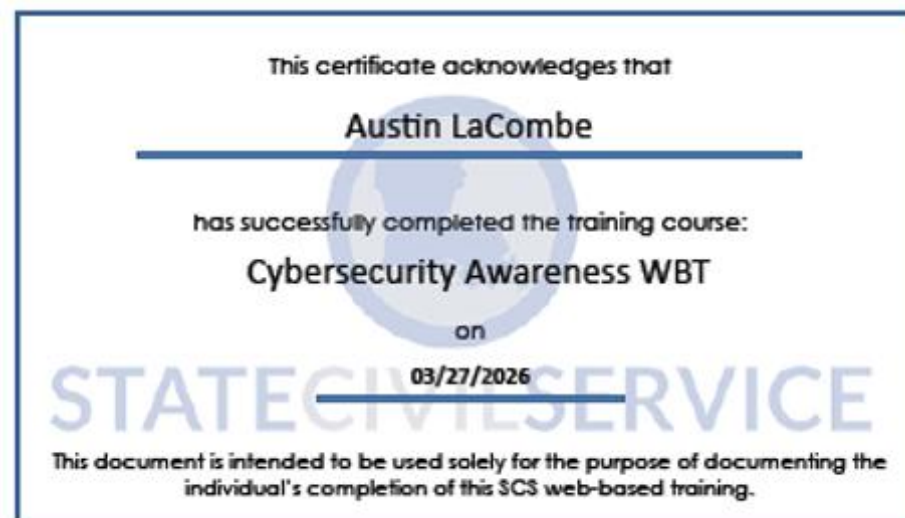
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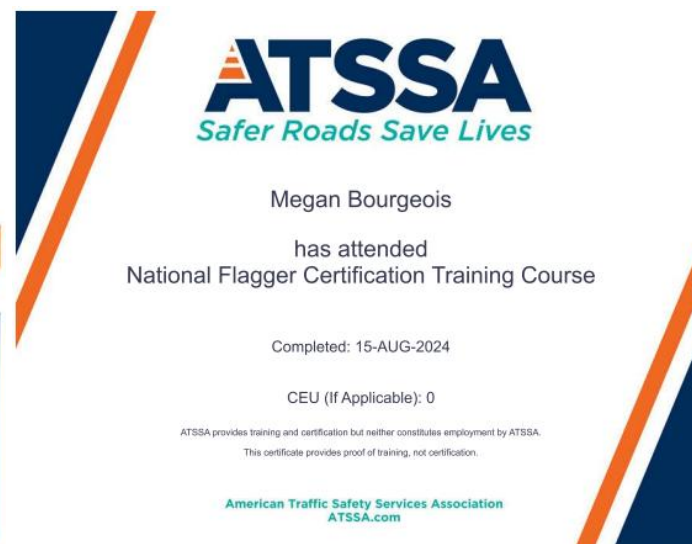
Perry Smith Jr.



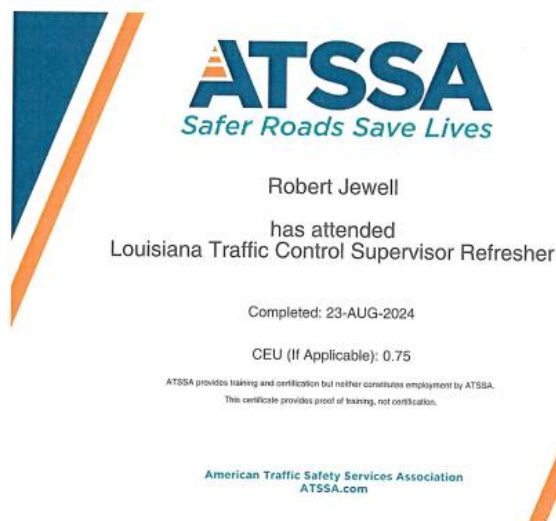
Austin LaCombe, PE



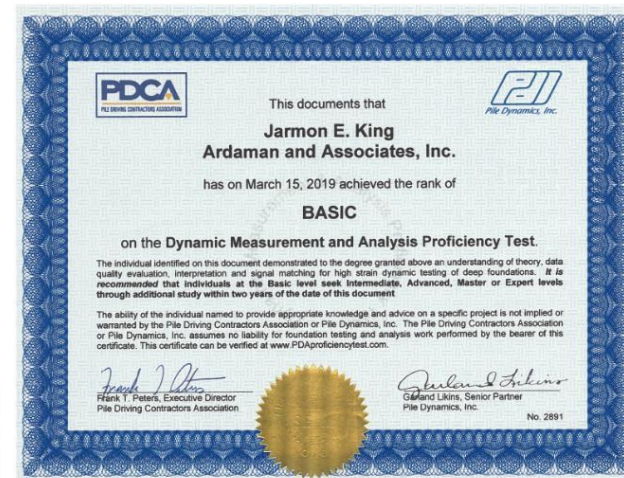
Megan Bourgeois, PE



Robert Jewell, PE



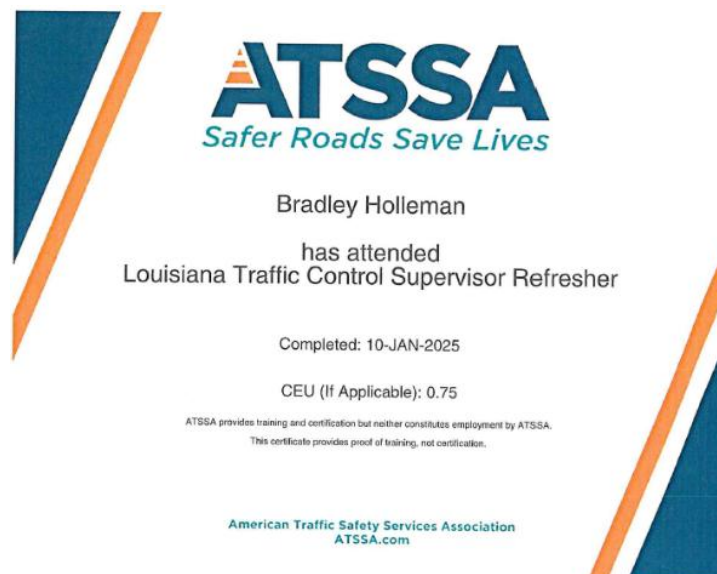
Jarmon King, PE



Casey Floyd

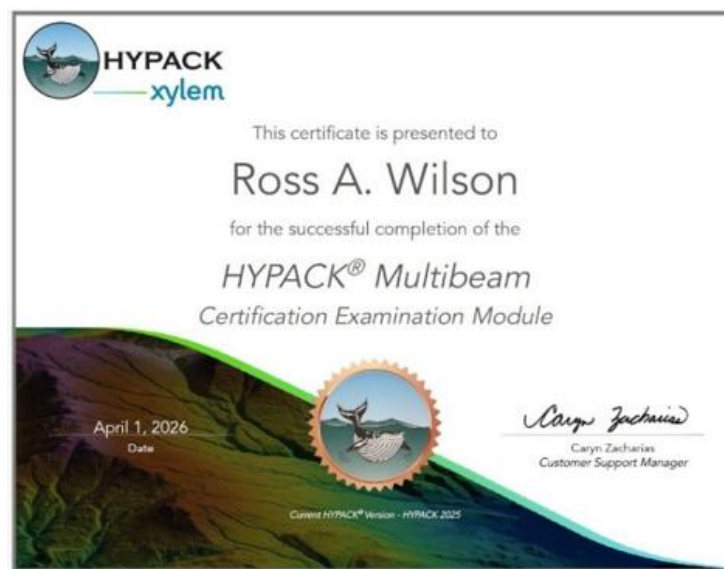
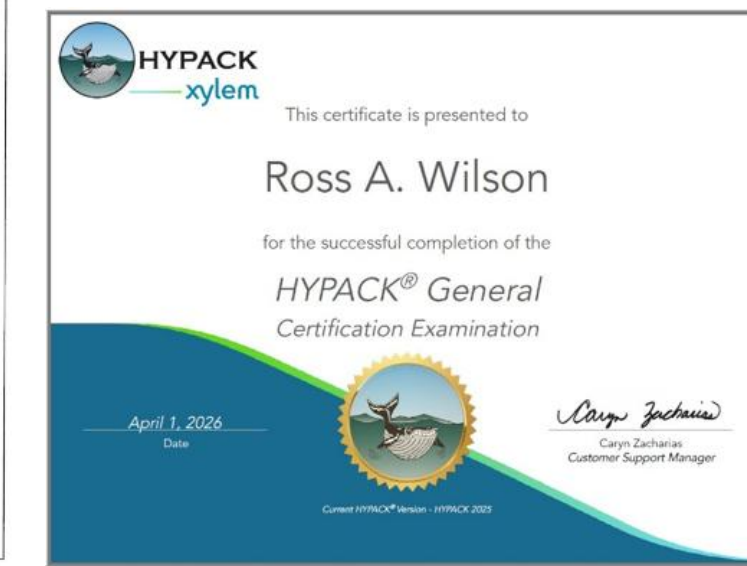


Bradley Holleman, PE, PLS

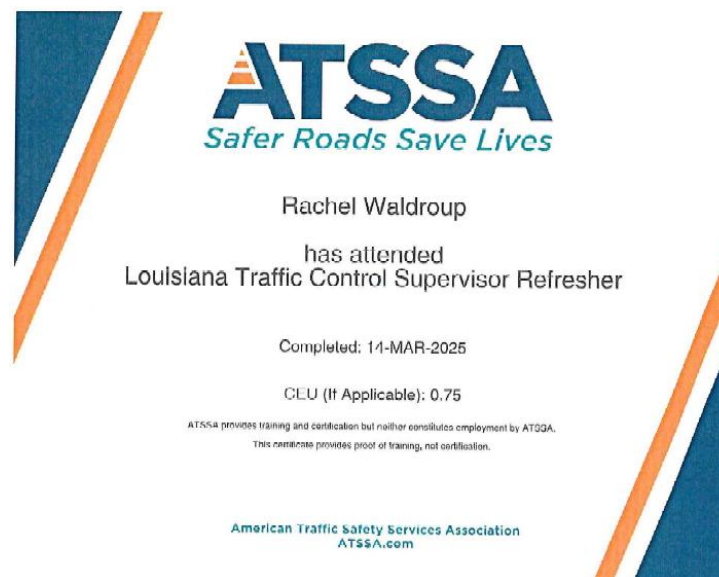


Blake Bonnette

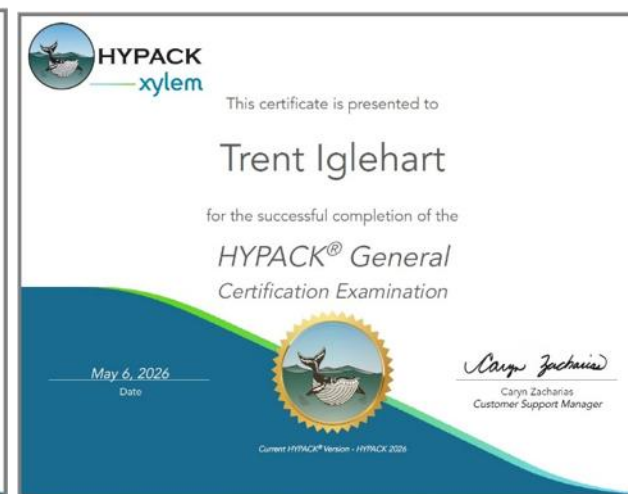
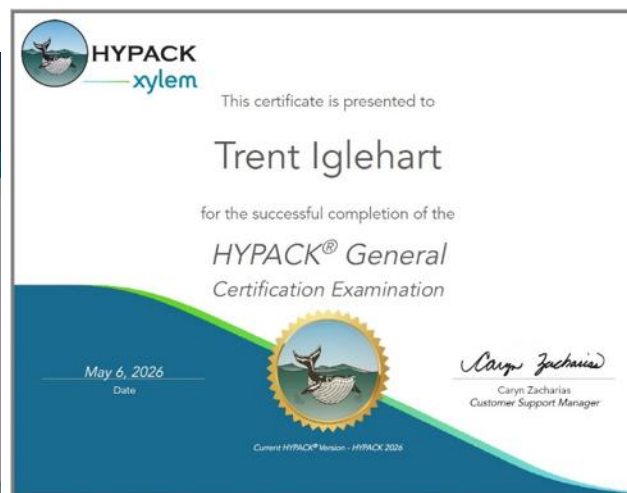




Rachel Waldroup, PLS 



Trent Iglehart 



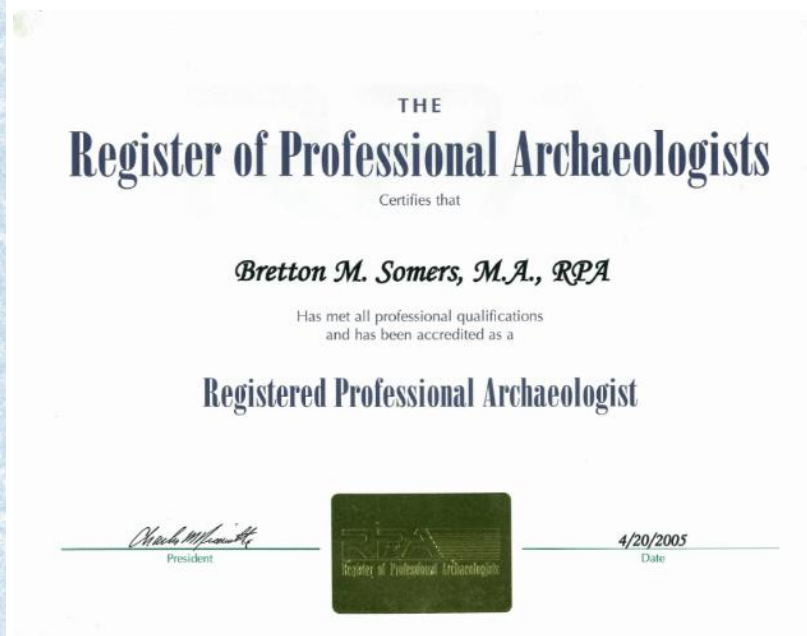
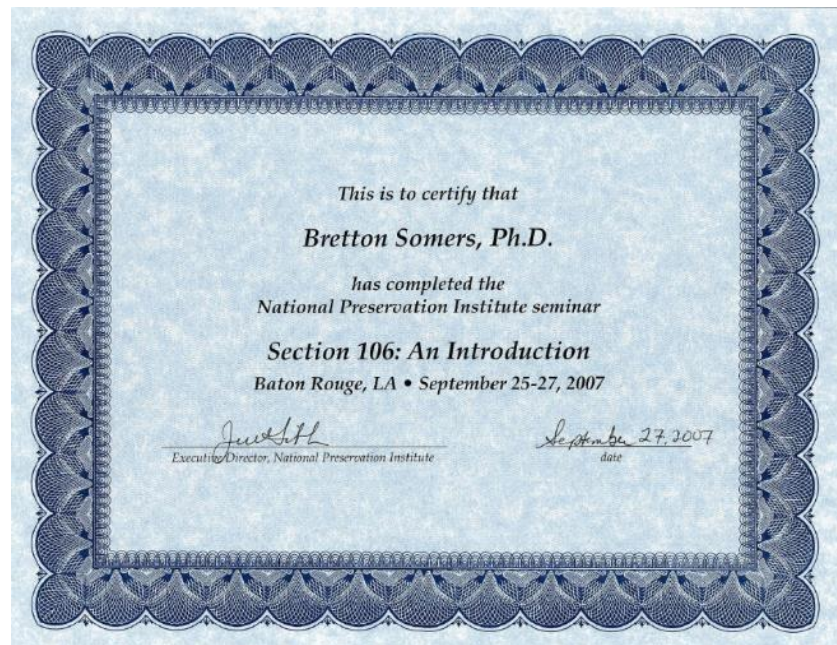
John Lindemuth



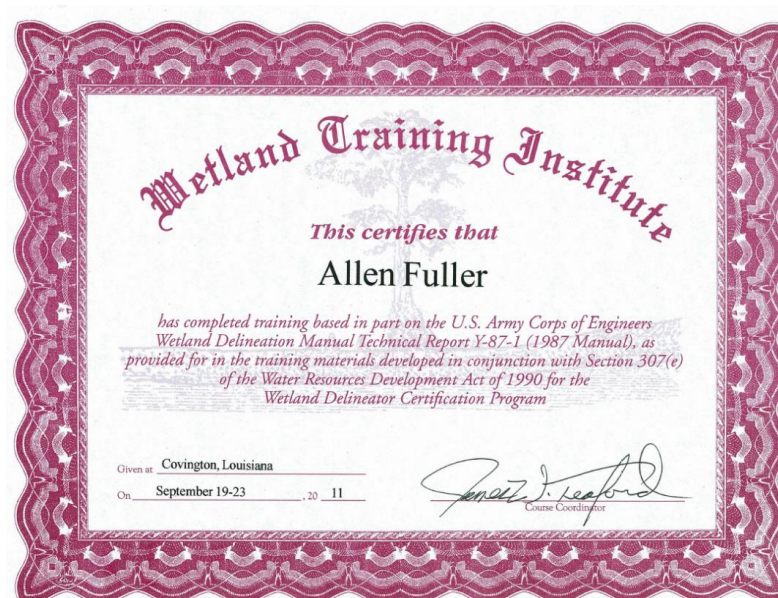
Paula Roddy



Bretton Somers, Ph.D



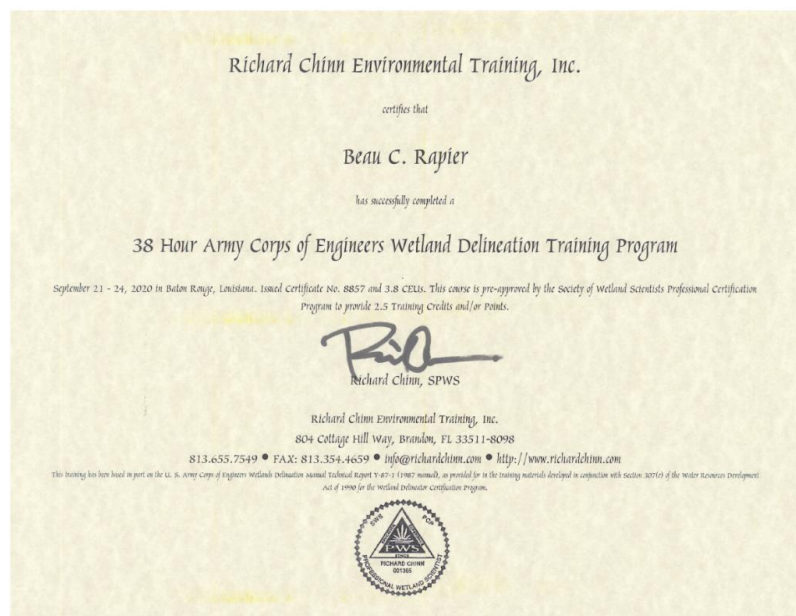
Allen Fuller



Ross Hackbarth



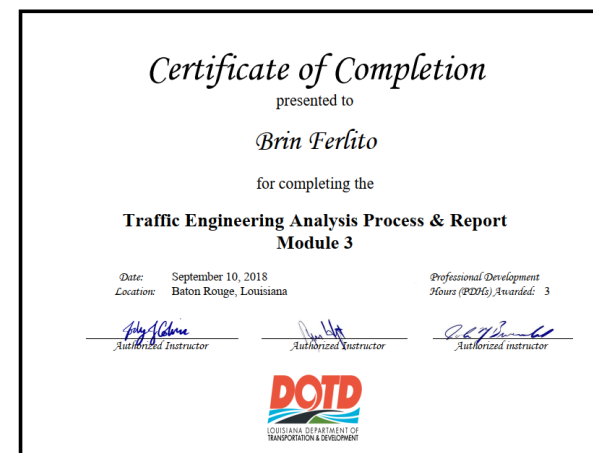
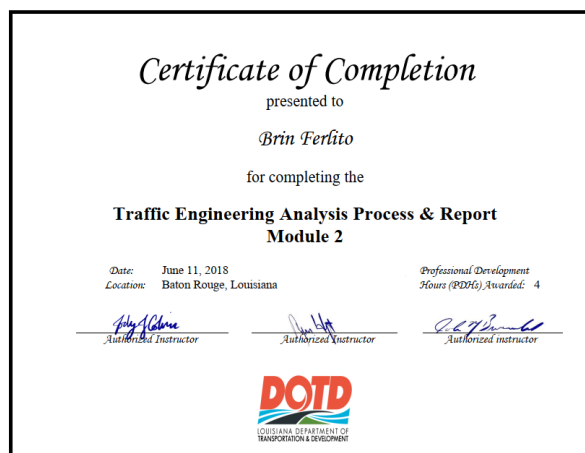
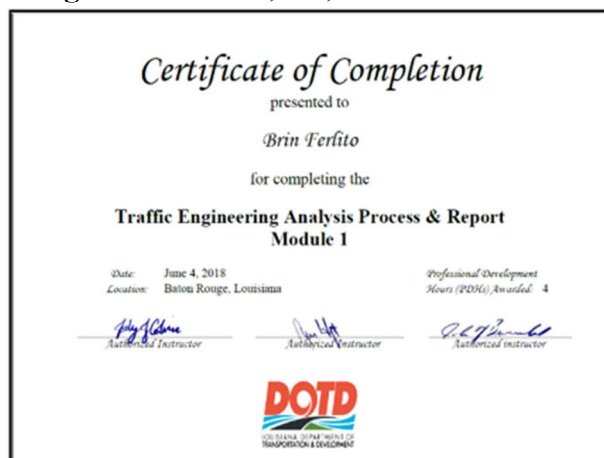
Beau Rapier



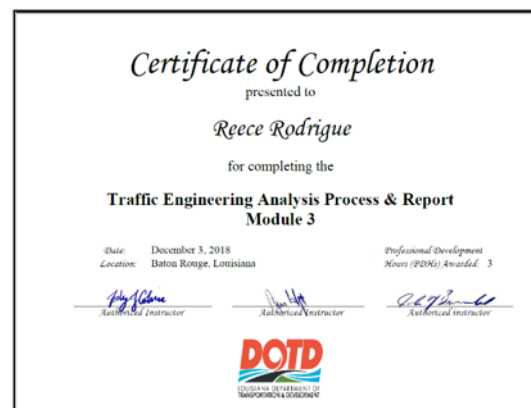
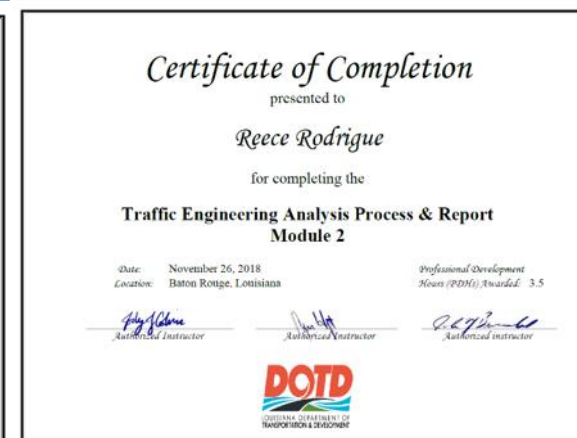
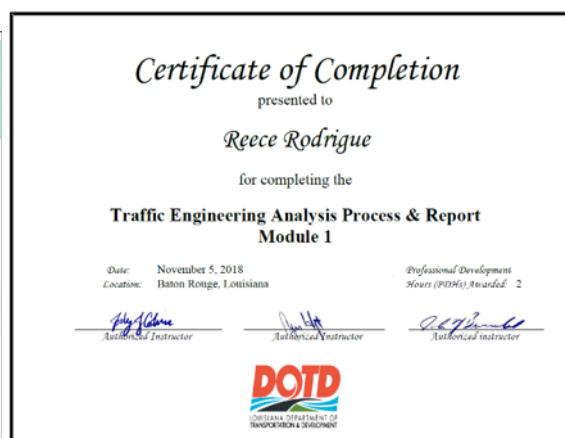
Howard Nass

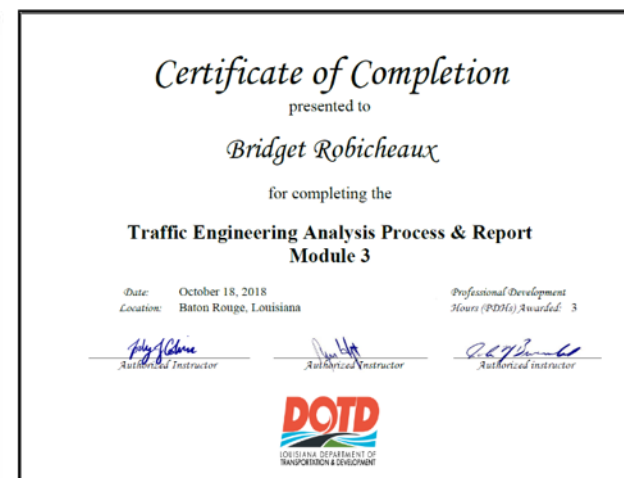
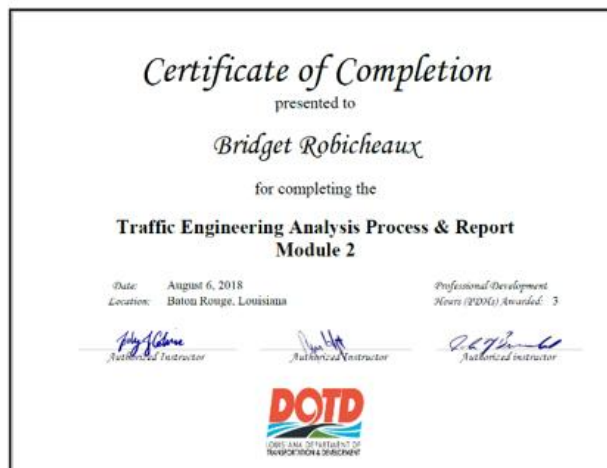
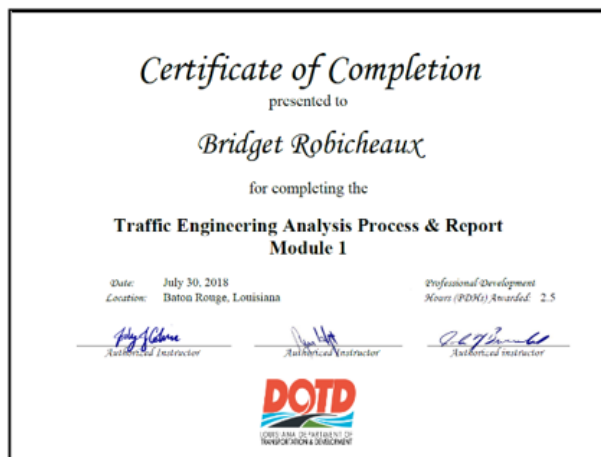


Sheelagh Brin Ferlito, PE, PTOE **VECTURA**



Reece Rodrigue, PE, PTOE, RSP1 VECTURA



Bridget Robicheaux, PE, PTOE **VECTURA**

Kristen Gahagan Farrington, PE, PTOE, RSP1 VECTURA



The Transportation Professional Certification Board

Certifies that

Mrs. Kristen Gahagan Farrington, P.E., PTOE, RSP1
successfully holds the Professional Traffic Operations Engineer® certification

Original Certification Date: 3/26/2020

Certification Valid Through: 3/26/2029

Steve Kuciamba,
Executive Director and CEO

Jan O. Voss, P.Eng., PTOE
TPCB Chair

Certification Number: 4863

Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report Module 1

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

Professional Development
Hours (PDHs) Awarded: 2.5

Authorized Instructor

Authorized Instructor

Authorized Instructor



Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report Module 2

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

Professional Development
Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized Instructor



Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report Module 3

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

Professional Development
Hours (PDHs) Awarded: 3

Authorized Instructor

Authorized Instructor

Authorized Instructor



National Highway Institute



Certificate of Training

KRISTEN FARRINGTON

has participated in

FHWA-NHI-142005 NEPA and the Transportation Decisionmaking Process

hosted by

LA DOTD/LTRC

Date: August 10-12, 2022
Location: Baton Rouge, LA

Hours of Instruction: 18

Instructor

Local Coordinator
Thomas Harman, Director
National Highway Institute

American Traffic Safety Services Association



This is to affirm that
Kristen Farrington
Has satisfied the requirements to be designated as a
Registered Flagger

Expiration Date: 9/24/2029 State Issued In: LA

Instructor Signature

A1000366548

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Kristen Farrington
has attended
Louisiana Traffic Control Supervisor Refresher

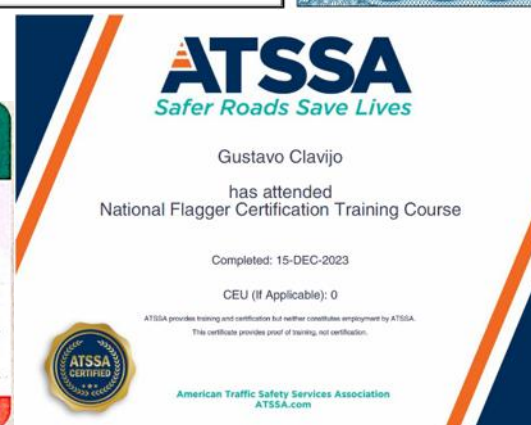
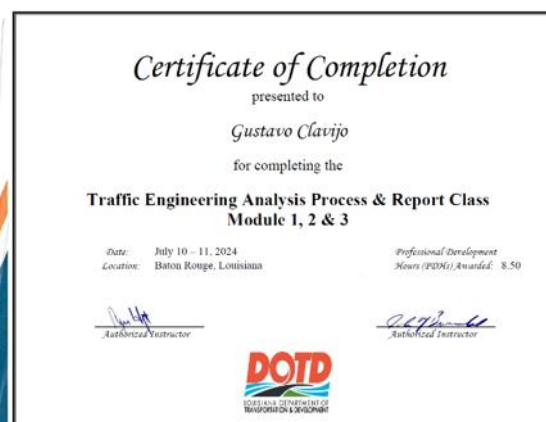
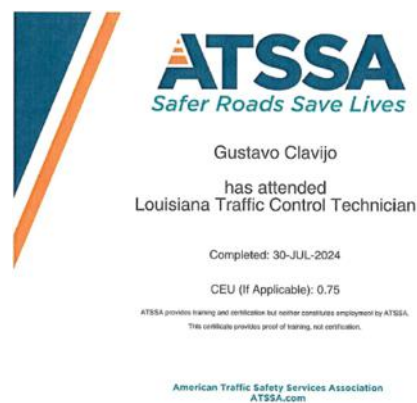
Completed: 18-APR-2025

CEU (If Applicable): 0.75

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American Traffic Safety Services Association
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21. QA/QC PLAN:

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

The QC/QA plan is attached to the end of the proposal.

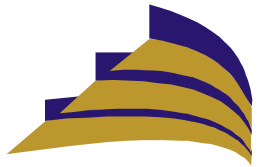
22. SUB-CONSULTANT INFORMATION:

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

Firm Name (Name must match as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
T. Baker Smith, LLC 	180 Greenbriar Boulevard Covington, LA 70433	TJ Stokes, PE tj.stokes@tbsmith.com	985-302-0728
Ardaman & Associates, Inc. 	316 Highlandia Drive, Baton Rouge, LA 70810	Robert E. Jewell, PE RJewell@ardaman.com	225-666-4598
Forte & Tablada, Inc. 	9107 Interline Avenue Baton Rouge, LA 70809	Russell J. "Joey" Coco, Jr. jcoco@forteandtablada.com	225-927-9321
Gulf South Research Corporation 	8081 Innovation Park Drive, Baton Rouge, LA 70820	Suna Adam suna@gsrcorp.com	225-757-8088
WGI, Inc. 	2316 Killearn Center Blvd., Building C, Ste 100, Tallahassee, FL 32309	Jeremiah Slaymaker, PLS jeremiah.slaymaker@wginc.com	850-210-0101
Vectura Consulting Services, LLC VECTURA	PO Box 14269 Baton Rouge, LA 70898	Brin Ferlito, PE bferlito@vecturacs.com	225-223-6685

23. LOCATION:

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



SDR Engineering Inc

CONTRACT NOS. 4400035363 - 4400035367

**IDIQ CONTRACTS FOR ENGINEERING AND
TECHNICAL SUPPORT SERVICES FOR CRITICAL
PROJECTS STATEWIDE**

QUALITY CONTROL PLAN

REV. 00

Submitted to:

Louisiana Department of Transportation and Development

Submitted by:


Zhiyong Liang, PhD, PE, PMP Project Manager
SDR Engineering Inc

Date: 6/15/2026

Approved by:


Mohsen Shahawy, PhD, PE, Quality Assurance Manager
SDR Engineering Inc

Date: 6/15/2026

June 2026

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- **FINAL CALCULATION BOOK CHECKLIST**
- **QC/QA CERTIFICATION**
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1.0 INTRODUCTION

This Quality Control and Quality Assurance Plan (QC/QA) for the IDIQ Contracts For Engineering And Technical Support Services For Critical Projects Statewide has been prepared in accordance with LADOTD Bridge Design and Evaluation Manual (BDEM); Part I – Policies and Procedures; Chapter 3 – Policy for Quality Control and Quality Assurance (formerly Bridge Design Technical Memorandum No. 37 (BDTM.37)). SDR Engineering Inc (SDR) is committed to delivering services of the highest quality that conforms to the most current quality control standards.

This QC/QC details the proposed methods of controlling and assuring quality on all work products. It also includes project team organization, methods for documentation of comments and responses and record keeping of the project. This QCP clearly defines the role and responsibility of each person involved with the project.

The QC/QA will be updated throughout the duration of the project as and when it becomes necessary due to change in staffs or scope of the work.

1.1 PROJECT DESCRIPTION

The general scope of services for this project and the tasks to be performed by the consultant are as follows:

Task 1: Environmental and Permitting Services

The consultant shall provide environmental services necessary to obtain project environmental approvals, reevaluations, and permits, and to support mitigation compliance. The services shall include:

- Services in support of NEPA and related laws and regulations
- Develop permit applications and/or associated supporting documentation
- Services in support of mitigation compliance
- Perform material sampling and testing (e.g., air monitoring, groundwater, soil, bridge coatings)

Task 2: Traffic Engineering and Design Services

The consultant shall provide traffic engineering and design services necessary to analyze traffic impacts and design traffic and geometric solutions. The services shall include:

- Collect traffic data
- Develop and utilize traffic models to inform and justify project solutions
- Perform traffic control analysis and design
- Develop traffic intersection control, signing, and pavement marking designs
- Perform geometric designs and provide geometric reviews
- Develop Transportation Management Plans (TMP)
- Develop Access Justification Reports (AJR), either through an Interchange
- Justification Report (IJR) or an Interchange Modification Report (IMR)

Task 3: Surveying Services

The consultant shall provide surveying services necessary to perform topographic and boundary surveying, develop right-of-way maps, and provide other existing site data. The services shall include:

- Topographic and bathymetric surveying, 3D laser scanning, and underwater acoustical imaging.
- Develop drainage maps.
- Property and boundary surveying.
- Property title work including title research and reports.
- Construction related surveying services.

Task 4: Subsurface Utility Engineering and Utility Relocation

The consultant shall provide subsurface utility engineering and utility relocation support services necessary to identify, avoid, and/or relocation utilities. The services shall include:

- Perform all SUE Quality Levels (A-D).
- Perform utility oversight and coordination.
- Develop utility conflict matrices.

Task 5: Geotechnical Investigation and Design Services

The consultant shall provide geotechnical services necessary to perform geotechnical investigations, analysis, and design. The services shall include:

- Geotechnical field investigations including both shallow and deep soil borings.
- Geotechnical laboratory testing and analysis.
- Preparation of soil boring logs.
- Geotechnical analysis and design based on obtained data or data furnished by the DOTD.
- Construction related engineering services.

Task 6: Road Design and Hydraulic Engineering Services

The consultant shall provide roadway design and hydraulic services necessary to develop roadway and drainage solutions. The services shall include:

- Hydraulic analysis and design.
- Develop type, size, and location parameters for drainage structures.
- Develop project design criteria.
- Roadway design and plan development.

Task 7: Bridge Design Services

The consultant shall provide bridge engineering services necessary to develop bridge and structural solutions. The services shall include:

- Perform bridge and structural inspection and evaluation of existing bridges and structures.
- Bridge and structural analysis and design.
- Develop as-designed, as-built, and condition bridge ratings.

Task 8: Plan Development and Letting Support Services

The consultant shall provide plan development and letting support services necessary to receive bids on projects. The services shall include:

- Develop project plans in accordance with project needs and requirements.
- Schedule, conduct, and/or participate in plan review meetings.
- Provide responses to bidder inquiries and update contract documents as needed.

Task 9: Construction Support

The consultant shall provide construction related engineering support services necessary to support project construction activities. The services shall include:

- Construction drawing reviews.
- Review and provide responses to Requests for Information (RFIs).
- Review and provide responses to Value Engineering Proposals and Contractor Proposals.
- Review and provide responses to Non-Conformance Reports (NCRs).
- Provide updated contract documents as needed.

Task 9: Other Services

The consultant shall provide other related engineering, technical, and professional services necessary to support project delivery and administration. The services shall include:

- Tolling implementation, design, and support services.
- ITS design and support services.
- Roadway and aesthetic lighting design.
- Graphic design and professional presentation material development.
- Public relations and communication advisory services.
- Alternative delivery technical services.
- Other services as directed and developed in coordination with the DOTD Project Manager.

1.2 PROJECT GOVERNING STANDARDS AND CRITERIA

The Scope of Services requires that this contract be in compliance with AASHTO LRFD Bridge Design Specifications, 10th Edition, Manual for Bridge Evaluation, 3rd Edition with 2020 Interim Revisions, and the Louisiana Department of Transportation and Development's guidelines, manuals and standards, as applicable to the required services.

1.3 PROJECT SCHEDULE

Services will commence upon receipt of the task work order authorization and as directed by the Department's Project Manager. The services will continue until notice is given by the Department's Project Manager to end the services or when the approved cost for the services is exhausted.

Project submittals, associated schedule, and format shall be established in each Task Order. All bridge plan submittals shall be submitted in pdf format and the 100% signed final plans shall be submitted in full size paper and in pdf format. Design and rating calculations shall be submitted in pdf format no later than 30 days after the 100% final plan submittal.

1.4 DEFINITION OF TERMS

The use of the terms *quality control (QC)* and *quality assurance (QA)* within the QCP 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 (PM), 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 1 shows the organizational structure of the team. Each member of the team shares the responsibility of ensuring that quality professional services are being achieved.

According to LADOTD BDEM Part I Chapter 3, LADOTD Bridge Task Managers shall not perform QC/QA of consultants' work. SDR Engineering, as the prime consultant, is fully responsible for QC/QA of their work and the work of all sub-consultants.

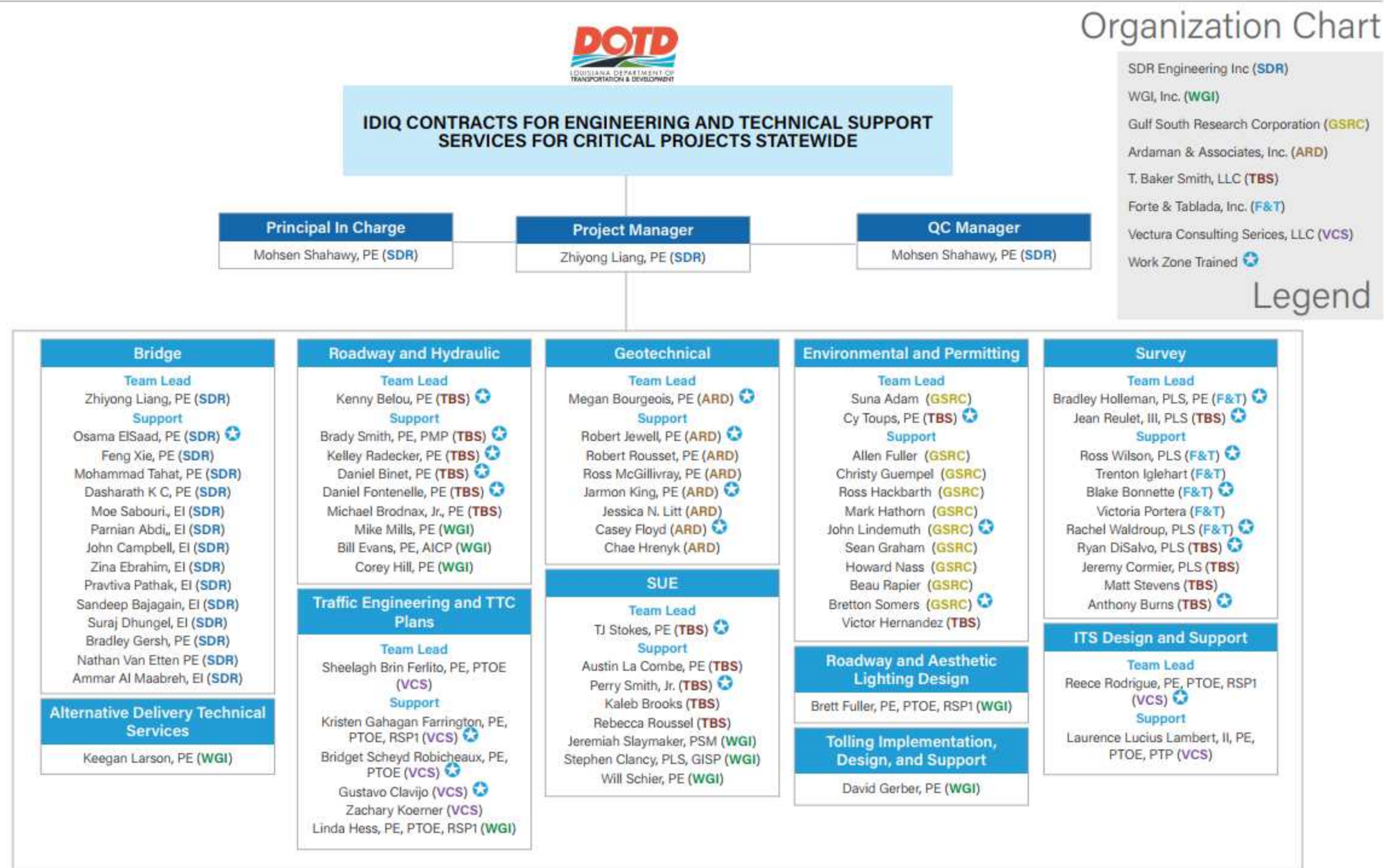


Figure 1: Organizational Chart

2.2 TEAM MEMBER QC/QA RESPONSIBILITIES

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

- Engineering/Planning Technical Staff are responsible for planning and executing assignments so that the work is produced in accordance with the Scope of Services and in the format that 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 are responsible for directing a team of technical staff in performing a specific task of the project. They also establish quality control procedures for their responsible areas and assign quality control functions for their staff. These procedures must conform to the QCP.
- Zhiyong Liang, PhD, PE, as Project Manager, is responsible for allocating resources to various elements of the work, preparing and implementing the QCP, scheduling the various activities and adjusting the plans as the work progresses to resolve identified potential problem areas in a timely manner. The PM, working together with the respective Project Engineer/Planner/Scientist, identifies the suitable persons/teams to perform QC reviews on each project element/deliverable. The PM is also responsible for maintaining records of all QC and QA reviews in the project files. The PM is also personally responsible for performing a final quality check of all work before it is submitted to LADOTD and ensuring that the procedures outlined in this document have been followed without exception. The PM will maintain frequent contact and communication with LADOTD to assure satisfaction with the project's progress and performance.
- Quality Control Reviewers are persons or teams responsible for performing independent technical reviews on specific project tasks, verifying the quality and technical adequacy of the project deliverables, and assuring their compliance with applicable standards and requirements. The QC Reviewers are not directly involved in the preparation of the documents/plans.
- Mohsen Shahawy, PhD, PE, as Principal-in-Charge (PIC), is responsible for allocating the required resources to perform the project and for monitoring the project to ensure adherence to the contractual terms and the QCP. The PIC provides periodic audits of technical performance of SDR staff. The PIC is also responsible for client interface and obtaining client feedback and input regarding the project and SDR's performance.
- Mohsen Shahawy, PhD, PE, as Quality Assurance Manager (QAM), is responsible for ensuring that all deliverables have entered the QC review process and that 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/she deem that this deliverable has not received a satisfactory QC review prior to its submittal. The QAM will not participate in the production of any elements of the project.

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 QCP and LADOTD's quality control requirements. Where applicable, LADOTD's quality control checklists will be used to verify that each deliverable conforms to the current requirements and expectations. Appendix I from the LADOTD BDEM Chapter 3 will be included in every submittal, and Appendix D from the same chapter will be included in the final submittal (see Appendix I in this document for the forms).

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*.

All QC Reviewers/Checkers/Verifiers will be qualified 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.

QA reviews will be performed by the QAM.

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

The checking procedures that will occur during the QC and QA reviews are discussed in the next section.

Table 1
Summary of Project Deliverables and Production Schedule

Deliverable	Responsible Engineer/Planner/Scientist Author/Originator	Responsible QC Reviewer	Anticipated QC Review Start Date	Anticipated QA Review Start Date	Anticipated Submittal Date
SDR Produced Deliverables					
			xx/xx/xx	xx/xx/xx	xx/xx/xx
Subconsultant Produced Deliverables					

3.2 DESIGN CHECKS AND REVIEWS

3.2.1 Design Review Requirements

Structure designs and drawings are subject to design and detailing reviews in accordance with the following table:

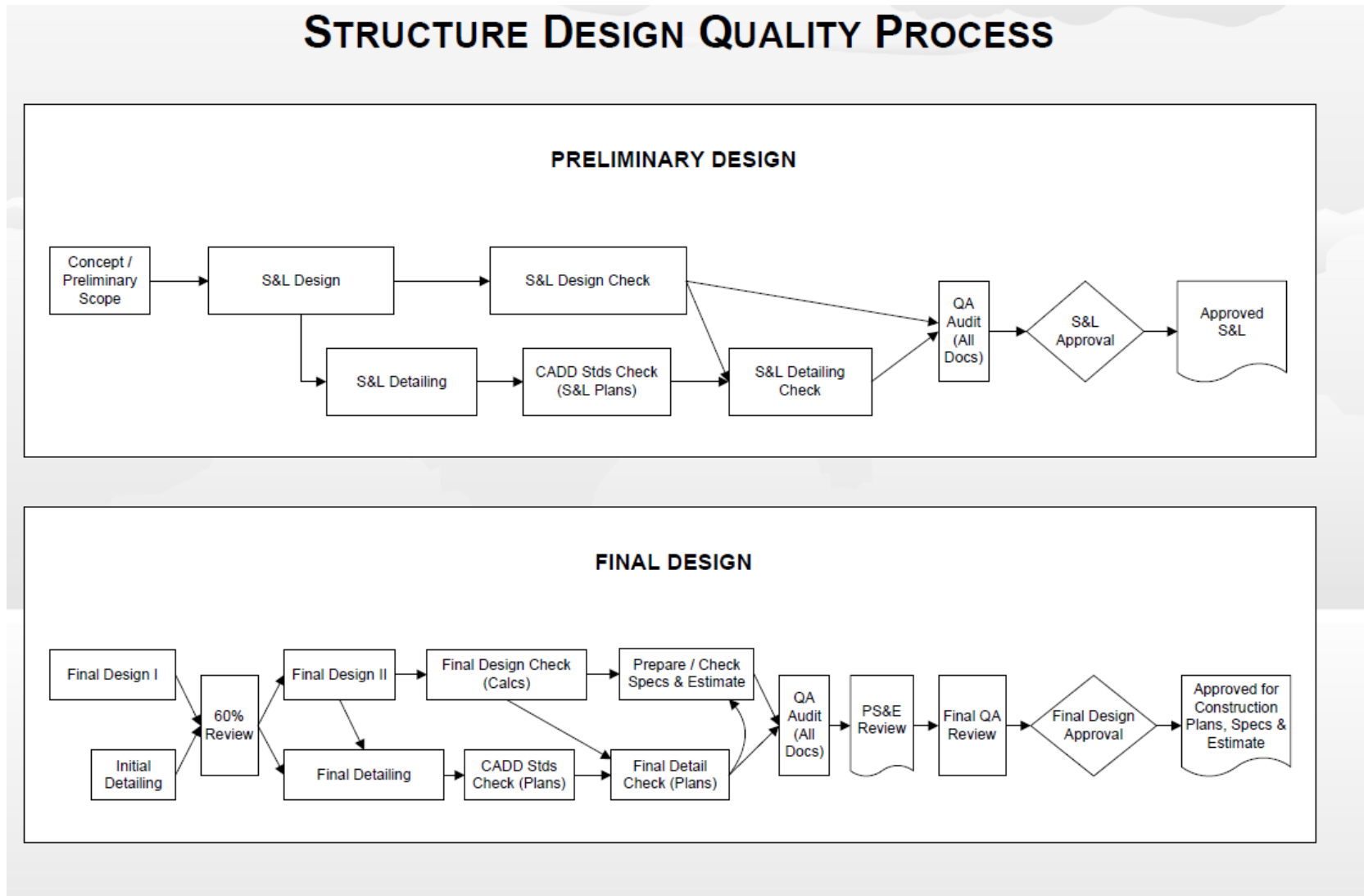
DESIGN REVIEW REQUIREMENTS								
STRUCTURE TYPE	REVIEW TYPE							
	SITUATION & LAYOUT CHECK		60% REVIEW	CADD STDS CHECK	FINAL DESIGN CHECK			FINAL QA REVIEW
	DESIGN	DRWG	DESIGN	DRWG	DESIGN	DRWG	SPECS & EST	ALL DOCS
Bridge	X	X	X	X	X	X	X	X
Drainage Structures	X	X		X	X	X	X	X
Retaining Wall	X	X		X	X	X	X	X
Overhead Signs			X	X	X	X	X	X
Bridge Widening	X	X	X	X	X	X	X	X
Structure Repair			X	X	X	X	X	X
Sound Wall *		X	X	X	X	X	X	X
Structural Barriers *			X	X	X	X	X	X

* Applies only to non-standard sound walls and structural barriers not covered by LADOTD standard drawings.

3.2.2 Structure Design Quality Process

The following chart illustrates the structure design quality process proposed for this project.

Figure 2: Preliminary and Final Design Quality Process



QC COLOR CODE

REMEMBER TO USE SIGN-OFF STAMP!

ORIGINATOR (DESIGNER)

Typed Text, Blueline Prints, Calculations, Black/White Copy

NOT IN: RED, YELLOW, OR GREEN

CHECKER (OTHER THAN DESIGNER)

Yellow for Correct

Red for "Corrections"

"Additions or Deletions" *changes*

Use blue for notes to Originator

BACKCHECKER (DESIGNER)

Green Check Mark for Agreement

"Corrections" ✓

Green Stet and Crossout when it is agreed "No Changes"

Ok
"Additions or Deletions" *changes*

UPDATER (ORIGINATOR/ DRAFTER)

Green Encirclement when Updated

"Corrections" ✓

RECHECKER (OTHER THAN DESIGNER)

Yellow over Red and Green to indicate updated correctly

Ok
"Additions or Deletions" *changes*

REVIEWERS (NOT INVOLVED IN ACTIVITIES LISTED ABOVE)

Insures QC process was followed.

Comments in Blue identified by initials and dates.

3.2.3 Situation & Layout (S&L) Check

The Situation & Layout Sheet(s) define(s) the general concept and geometry of the structure. The Situation & Layout Sheet(s) must be completed, checked, corrected and approved before the Designer begins the final design of the structure. The conceptual design of the structure is checked including the geometric layout, structure type, span length, support locations, girder type and spacing, horizontal and vertical clearances, expansion joints locations, aesthetic requirements, potential utility conflicts, context sensitivity, preliminary seismic strategy, and other items appropriate for the bridge under consideration.

The drawings are checked to verify compliance with the *Situation and Layout Detailing Checklist*. The checklist is completed by the Checker and becomes part of the QC documentation for the structure. The drawings are checked for agreement with the most current roadway drawings. Issues and discrepancies with the roadway information are identified and resolved prior to completing the S&L Check. The S&L drawings must detail any aesthetic and environmental requirements related to the structure as outlined in the appropriate documents.

After the Situation & Layout drawings are checked and issued, the roadway designer will immediately communicate any roadway changes to the bridge designer to prevent unnecessary re-design.

See Appendix A for "**STRUCTURES SITUATION & LAYOUT DESIGN APPROVAL**" Form.

3.2.4 60% Design Review

At or near 60% completion, structure plan sets are reviewed to verify concept and scope. This is not a detailed design or drawing check, but a review to validate the design direction and ensure that the design scope and intent on all project design criteria and requirements are being met. This review provides an opportunity to make changes in the design before it progresses to the point where design changes become prohibitive.

See Appendix B for a sample of the **60% DESIGN REVIEW CHECKLIST**.

3.2.5 CADD Standards Check

All drawings will be checked to verify compliance with correct drafting practices and CADD Standards. The CADD Standards Check occurs prior to the drawing QC check. If the drawing does not meet CADD Standards, it will be corrected before proceeding with the drawing QC check. The CADD Standards Check will be completed by a Senior Design Technician.

See Appendix C for a sample of the **CADD STANDARDS CHECKLIST**

3.2.6 Final Design Check

During the Final Design Review, all drawings are thoroughly checked as a complete package. Although previously checked, the latest S&L is once again checked during the Final Design Review to ensure compliance with the latest roadway plans and to verify that information and details not available at the S&L phase are included.

The entire set of design documents (plans, calculations, specifications, engineer's estimate, etc.) will be checked. All checking will be completed before the PS&E package is submitted. Changes to the design package after the QC process is complete will be checked by the same procedures.

See Appendix D for **FINAL DESIGN QA REVIEW CHECKLIST**.

3.2.7 LADOTD Oversight Reviews

LADOTD oversight reviews occur at the following design stages:

1. Preliminary Design Review
2. 60% Design Review
3. 95% Design Review
4. 98% Design Review
5. Review of Final Design (may occur in conjunction with the PS&E Review).

The LADOTD Structures Oversight Engineer assigned to the project may request additional oversight reviews if deemed necessary.

3.2.8 Design Approvals

Design approvals are required at specific design milestones.

<i>DESIGN APPROVAL REQUIREMENTS</i>		
<i>STRUCTURE TYPE</i>	<i>APPROVAL TYPE</i>	
	<i>SITUATION & LAYOUT</i>	<i>FINAL DESIGN</i>
Bridge	X	X
Drainage Structures	X	X
Retaining Wall	X	X
Overhead Sign Structure		X
Bridge Widening	X	X
Structure Repair		X
Sound Wall*		X
Structural Barrier*		X

*Applies only to non-standard sound walls and structural barriers not covered by LADOTD standard drawings.

3.2.9 Final Design QA Review

The Final Design QA Review is completed by SDR QCM or his/her designee. The Final QA Review takes place after the PS&E Review and just prior to the Final Design Approval. The submittal includes all design documents as indicated on the Final Design QA Review Checklist. The following components are the subject of the final QC/QA checks:

1. Completed structure plan set (signed and sealed)
2. Specifications (Special Provisions)
3. Engineer's estimate
4. Design Certification Forms (Complete for Final Design)
5. Design Criteria Summary
6. Approved Design Exceptions
7. Computer Design Software List
8. Bridge Load Rating Report
9. Previous review comments with responses and final dispositions
10. Design Calculations
11. Independent Review Checklist, Letter Report and Calculations (when required)
12. Any other final design documents and reports, as appropriate

See Appendix D for the **FINAL DESIGN QA REVIEW CHECKLIST**.

4.0 QC CHECKING PROCEDURES

4.1 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. All review revisions will be completed prior to proceeding with the second QC review. The second QC review will occur on a clean copy of the revised document after the technical QC review is completed and is intended to check for spelling, grammar, formatting, readability, and consistency.

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 by the QC Reviewers on the checkprints in red. The QC Reviewers will initial the bottom right corner of each page of the checkprint. 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 will confirm the corrections/comments, consult with the appropriate person(s) to resolve conflicts, and revise the document accordingly. Acting as the Corrector and/or the Back-checker, the Author will revise the document in accordance with the comments. Comments that are addressed, as suggested by the QC Reviewer, will be highlighted by the Author on the checkprint in yellow. Comments that, after discussion with the QC Reviewer, are deemed no longer valid, will be crossed by the Author in green on the marked-up document along with a brief note explaining the reason.

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 any comments be improperly 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 in green; each comment must bear the QC Reviewer's green check mark.

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 Certificate of Compliance (see Appendix H). The PM will

forward the checkprints, the submittal document, the completed QC form, and the signed Certificate of Compliance 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/she will return the documents to the PM with instructions for completing the missing elements. If the QAM is satisfied that the process has been followed, he/she will sign the Certificate of Compliance and return it along with the submittal document to the PM for delivery to LADOTD.

After completion of the QC and QA review process, the PM will archive the technical and editorial QC review checkprints, the QC form, a record copy of the submitted document, and a copy of the Certificate of Compliance in the project's QC files for record keeping. An electronic file of these items will also be created and saved in the QC folder of the project's directory.

Figure 3: Document Quality Control and Quality Assurance Process

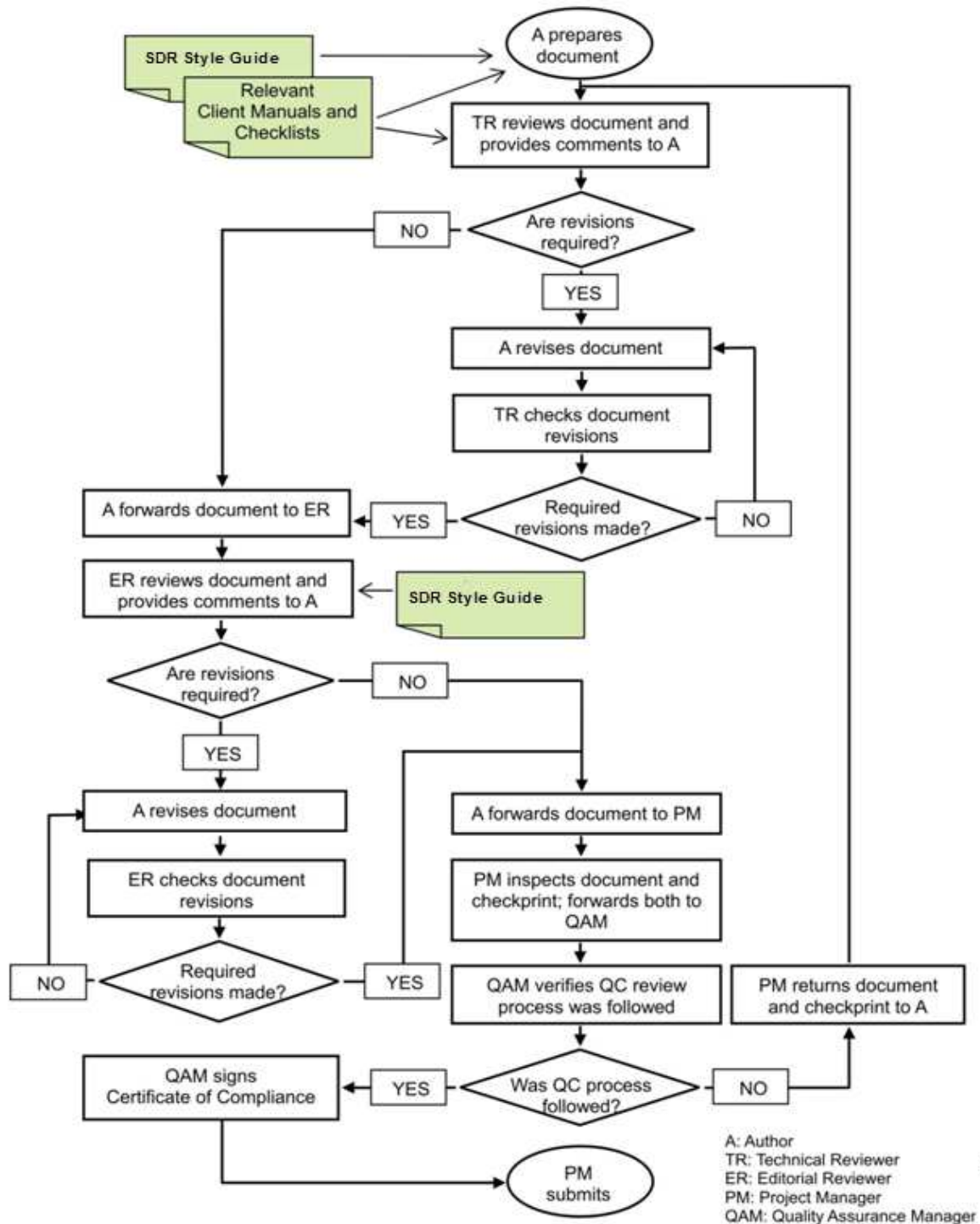


Figure 4: Quality Control Form for Documents
DOCUMENT QUALITY CONTROL FORM

Labor Charge Number	Project #		Task #	
Budget/Hours			Due Date	

PROJECT INFORMATION

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

TECHNICAL/EDITORIAL REVIEW

			NAME	INITIALS	DATE
TECHNICAL REVIEW	Primary Review (red=correction)	TR			
	Revised (yellow over red)	A			
	Revisions Reviewed (green check=OK green circle = additional correction)	TR			

EDITORIAL REVIEW	Primary Review (red=correction)	ER			
	Revised (yellow over red)	A			
	Revisions Reviewed (green check on revision=OK green circle = additional correction)	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

4.2 CHECKING OF DRAWINGS

Drawings are prepared by teams of staff, 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, it will be independently checked by a qualified QC Reviewer for:

- Conformance with the design criteria and project requirements.
- Completeness and clarity.
- Coordination with other aspects of the project, i.e., structural, civil, traffic, right-of-way, etc., 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 below and shown in Figure 5. The first formal issue of a drawing is the checkprint and 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. 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.

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

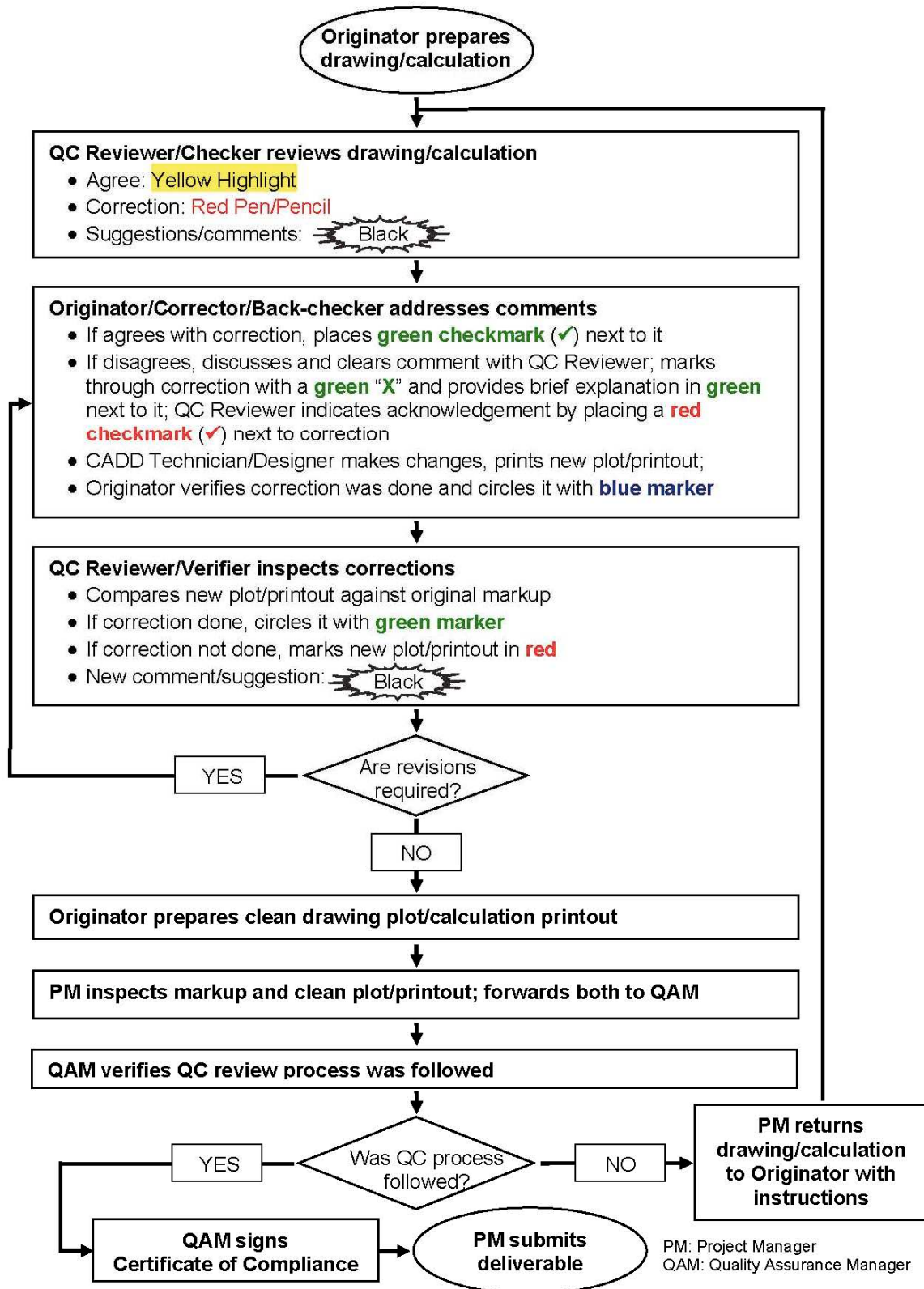


Figure 6: Drawing and Calculations QC Stamp

(Ready for Checking)	<i>Signature</i>	<i>Date</i>
Originator		

No. _____ Date _____

CHECKPRINT

Dwg. Checked against calcs. and
calc. check confirmed.

By _____ Date _____

Checked _____ Date _____

Backchecked _____ Date _____

Corrected _____ Date _____

Verified _____ Date _____

QC Process Approved By: _____
<i>Date</i>

All items on the drawing(s) must be marked by the QC Reviewer/Checker 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.
- **Blue/Black marking:** relative comments noted by the QC Reviewer/Checker.

As the QC Reviewers/Checkers inspect and mark each drawing, they will initial in the bottom right corner of every page/sheet of the checkprint 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 any 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. The QC Reviewer/Checker who made the comment will indicate his/her concurrence by placing a red check mark next to the comment. As the Originator/Back-checker reviews and addresses the comments on each drawing, he/she will also 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), they 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 back-check 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 either circled in blue and green or crossed out in green. After all corrections are acceptably 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 Certificate of Compliance. The PM will forward the checkprint(s), the submittal drawing(s), and the signed Certificate of Compliance 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 drawing(s). If he/she is satisfied that the process has been followed, the QAM will also sign the Certificate of Compliance, which will be submitted by the PM to LADOTD with the submittal drawing(s). If the QAM finds that the process was not adequately followed, he/she 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 archive the checkprint(s), a record copy of the submitted drawings, and a copy of the Certificate of Compliance in the project's

QC files for record keeping. An electronic file of these items will also be created and saved in the QC folder of the project's directory.

4.3 CHECKING OF CALCULATIONS

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

Figure 7: SDR Manual Computation Sheet

SDR Engineering Consultants, Inc.
COMPUTATION SHEET

Originator's Name _____

Page _____ of _____

Made by _____

Date _____

Checked by _____

Date _____

Subject _____

QC Reviewer's/Checker's Name _____

The Designer is responsible for creating and maintaining the design calculations for the assigned structure in a neat and logical manner which is conducive to checking and in accordance with this policy.

1. Title page with Structure Drawing Number, Structure Name, Design Calculations title, and Designers names.
2. Table of Contents.
3. Design Criteria Summary (include a list of applicable AASHTO and LADOTD design specifications used in the design).
4. Design Criteria Exceptions (a list of any deviations from the project design criteria, along with the approval documentation).
5. List of computer programs and spreadsheets used in the design.
6. Completed Design & Detailing Progress Form.
7. Use standard letter-sized paper for computer generated calculations.

8. Number all pages with a numbering scheme that covers the entire set of calculations.
9. Identify the appropriate code references in the right hand column of the calculations.
10. Reference computer programs and indicate appropriate code section. Computer documentation includes: name of program, vendor, version, and release date.
11. Include Bridge Type Selection Report and Seismic Strategy Report.
12. Bridge Load Rating Report and Calculations.

After completion of his/her task, the Originator (the designer/analyst responsible for the calculations) will create a checkprint consisting of copies of all computation sheets, computer printouts and any 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, and will fill in the first line of the QC stamp.

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 all printouts to indicate his/her agreement or disagreement and initial the bottom right corner of each inspected page/sheet. The following is the color code to be used for marking calculations:

- **Yellow highlight:** QC Reviewer/Checker agrees with the calculation, assumption, etc.
- **Red marking:** calculation, assumption, etc., requiring correction.
- **Black marking:** relative 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 any 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 be then 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 acceptably 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 a clean copy of the submittal calculations. 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 Certificate of Compliance. The PM will forward the checkprint(s), the submittal calculations, and the signed Certificate of Compliance 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/she is satisfied that the process has been followed, the QAM will also sign the Certificate of Compliance, which will be submitted by the PM to LADOTD with the submittal calculations. If the QAM finds that the process was not adequately followed, he/she 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 archive the checkprint(s), a record copy of the submitted calculations, and a copy of the Certificate of Compliance in the project's QC files for record keeping. An electronic file of these items will also be created and saved in the QC folder of the project's directory.

See Appendix E for the **DESIGN CALCULATIONS CHECKLIST** and also Appendix F for **STRUCTURE DESIGN CERTIFICATION FOR DESIGN CALCULATIONS**.

4.4 60% DESIGN REVIEW

When the structure drawings have progressed to the point where the design of major structure elements are adequately illustrated (at or near 60% completion), the Senior Design Engineer will conduct a 60% Design Review. The purpose of this review is to identify any design flaws that will significantly affect the design before significant work effort is performed to the point where it becomes prohibitive to modify the design. The 60% Design Review is not a detailed check of the design or the drawings, but a check of the general concept and functionality of the structure. This review occurs prior to the final drawing check. Scheduling the 60% Design Review as early in the design process as possible will improve the opportunity to incorporate

quality, efficiency, and economics into the design without significant redesign. This review may also identify structural elements that require special design procedures. For unusual or complicated structures, the Senior Design Engineer may organize a review team to participate in this review. The review team may include representatives from the LADOTD bridge group, inspection group, construction, maintenance, and other design disciplines.

The Reviewer will check the design for constructability, maintainability, inspectability, and that the standard details are correctly applied. The Reviewer will verify that the design matches the project criteria and scope, and that all aesthetic and environmental requirements are being incorporated into the structure. The final seismic strategy report will also be reviewed.

The 60% Design Review submittal will typically include the following unchecked drawings:

60% REVIEW PLAN SUBMITTAL CONTENT		
BRIDGE	OVERHEAD SIGN STRUCTURE	OTHER STRUCTURE TYPES
Situation & Layout Soil Data Sheets Pile Details Foundation Plan Abutment Details Bent Details Framing Plan Girder Details Camber Diagrams Diaphragms / Cross-frames Bearings Post-Tensioning and/or Prestressing Details Deck Details Screed Elevations Parapet Details Other Major Element Details	Sign Location Sign Panel Geometry Sign Support Geometry Roadway Typical Sections Foundations	All Details (unchecked)

The 60% Design Review includes the following elements:

1. **Standard Details.** Verify that standard details are used appropriately. Ensure that any nonstandard details are appropriate.
2. **Constructability.** Check the plans for problems that would impact construction. Identify details that would require the Contractor to do the impossible or near impossible. Identify details or construction sequencing that can be modified to improve constructability without impacting the quality or design life of the completed structure.
3. **Inspectability.** Verify that all major components of the completed structure are accessible for inspection.

4. **Maintainability.** Check the major elements of the bridge for built-in problems that would impact bridge maintenance. For instance, verify that the deck drains will not soak the girders or substructure. Identify potential problems that can be avoided.
5. **Compatibility** with the surrounding environment and adjacent project elements, compliance with project aesthetics and environmental requirements, etc.
6. **Significant Design Flaws.** Identify any design flaws that will significantly affect the design and construction.

Each Reviewer fills out and signs the 60% Design Review Checklist and gives it to the Designer who places a copy with the QC documentation and a copy in the design calculations.

See Appendix B for **60% DESIGN REVIEW CHECKLIST**.

4.5 CADD STANDARDS DRAWING CHECK

The Originator of the work has the primary responsibility for compliance with LADOTD Structures CADD Standards. The Originator should not rely upon the checking process to find and correct his/her mistakes.

All completed drawings will be checked to verify compliance with correct drafting practices and LADOTD CADD Standards. This will provide consistency of structures plan drawings and ensure that proper CADD procedures are followed. The CADD Standards Check occurs prior to the drawing QC check. If the drawing does not meet CADD Standards, it will be corrected before proceeding with the drawing QC check.

The CADD Standards Drawing Check is completed by a Senior Design Technician, as assigned by the Senior Design Engineer, to check MicroStation data for compliance to Standards and Procedures. This check is performed on all files that will be released for construction.

The CADD Standards Check will check for the following:

1. All CADD contract drawings are produced in the current MicroStation format according to LADOTD CADD Standards.
2. Proper file naming conventions are followed. File names reflect the nature of their contents.
3. Correct line styles are used and are on the correct levels. Correct text size and type are used.
4. All details are drawn to scale.
5. Reference files (stored as read only) are used, as opposed to the copying of existing data (as appropriate).
6. Correct seed files or libraries of standard features/details (stored as read only) are used. No changes to an existing approved standard may be made without the approval of the Senior Design Engineer.

7. All CADD-produced prints will automatically produce the date, time and filename printed outside the left border.
8. When the CADD Standards Check is complete, fill out and sign the CADD Standards Drawing Review Checklist. The checklist will be kept with the QC documentation for the structure. Also, place a copy in the Design Calculations.

See Appendix C for **CADD STANDARDS CHECKLIST**.

4.6 CHECKING STRUCTURE DRAWINGS

The checking of structure drawings requires a minimum of two individuals: a checker/ verifier, and an originator/back checker. In most cases, the Originators of the drawing are the Designer and the Detailer. The Checker/Verifier is a designer not involved in the original design. Do not begin the final drawing check until the design calculations are complete and checked and the CADD Standards Check is complete.

4.6.1 Completing the Drawing

A drawing is considered complete and ready for checking when the Originator certifies that the content is complete and accurate and that the detailing and CADD work follow all applicable standards. The Originator is responsible for the completeness and accuracy of the drawing, and should not rely on the checking process to correct errors in content and format.

As each drawing is completed in final format and deemed ready for checking, the Originator initials the title block of the drawing, makes a Check Print copy, affixes numbers, and dates the Check Print stamp on the print of each drawing. When all drawings for the structure are complete and stamped, the Designer gives them as a complete package to the Checker.

4.6.2 Checking

The Checker checks the Check Prints of the drawings for completeness, consistency throughout the plan set, technical adequacy and conformance to any applicable standards and format, and performs specific accuracy checks required for that type of drawing. In cases where individual drawings are checked (not as a complete plan set), the Checker must check the completed plan set for completeness and consistency between drawings before the checking is considered to be complete.

The Checker checks each drawing to ensure that it accurately represents the design as described in the corresponding design calculations, and verifies that those calculations have been properly checked. This includes the checking of quantities. The Checker should not proceed with the drawing check unless the calculations have been checked. The Checker documents the checking process by highlighting in **yellow** on the Check Print each part checked that is found to be correct, and marking in **red** on the Check Print any required corrections, additions, or deletions.

***NOTE:** Red or yellow should not be used to note comments or instructions. These colors are reserved for the checking process. Write comments or instructions in blue.*

The Checker will check all details on the drawing for adequacy, completeness, correctness, clarity, appropriate proportions, and proper dimensioning. All text and notes will be checked for correctness and applicability. The quantity subtotals and totals will be checked. The completed check print will show that all drawing elements (details, text, notes, etc.), without exception, have been checked by being marked either in yellow or red. The Checker will also compare the details and information on each sheet with the same or similar information on other sheets to ensure that there are no conflicts and that all elements fit together properly.

When the checking is complete, the Checker signs and dates the Check Print stamp and returns it to the Originator.

NOTE: *In the case where no corrections, additions or deletions are found, there is no need for back checking or further signatures on the Check Print stamp. The Check Print and original drawing, signed in the appropriate checked block, is returned to the Originator for placement in the project file.*

4.6.3 Back Checking

The Originator (acting as Back Checker) reviews the Checker's marks on the Check Print and personally makes or supervises the update of the Drawing Original. To document the back checking process, the Originator:

- a. Check marks in **green** each of the Checker's red-marked changes if in agreement that the Original should be changed, and adds in **green**, with the concurrence of the Checker, any additional changes not picked up by the Checker.
- b. Crosses out and marks OK in **green** each of the Checker's red-marked changes that both the Originator and the Checker agree should not be changed. The Back Checker should not obliterate the Checker's marks.

NOTE: The Back Checker and Checker should resolve differences encountered during the checking process so they are not repeated over and over again. If resolution cannot be achieved by the two individuals, the Senior Design Engineer should be requested to resolve the differences.

- c. Signs and dates the Check Print stamp.

4.6.4 Correcting the Drawing Original

The Drawing Original is corrected by the Detailer under the supervision of the Designer (Originator). As Check Print corrections are made to the Drawing Original, the person making the changes circles in **green** each correction as incorporated. When all corrections are complete, the person correcting the drawing signs and dates the Check Print stamp.

4.6.5 Verifying the Corrected Check Print

The Verifier (usually the Checker) verifies the corrected drawing against the Check Print to assure that the agreed-upon corrections have been incorporated without error.

If the corrections are not made or are made incorrectly, the Check Print with penciled instructions is returned to the corrector. The Verifier marks in **yellow** each green-circled item after reviewing its incorporation on the Original Drawing. At the conclusion of the checking process, everything on the drawing should be marked in yellow.

The Verifier signs and dates the Check Print stamp, as applicable.

After the corrections have been verified, the Checker initials the “Checked by” block on the title block of the Drawing Original.

At the completion of the QC Review, all check boxes in the drawing title block should be initialed. The Design and Detailing Progress form will also be completely filled out (hand initialed) at this time.

To complete the checking process, the Designer of Record fills out the project information on the Design Certification for Design Plans form and seals and signs the Design Certification section. The Checker seals and signs the Design QC Certification section.

4.6.6 Disposition of the Checked Drawing

The completed original (or CADD file) is placed under the control of the Senior Design Engineer to prevent further changes to the drawing that could invalidate the checking which has been done.

4.6.7 Additional Changes or Corrections

When a change is made to a checked drawing, a new Check Print must be made to check the area that has been changed. The Check Print is stamped and labeled Check Print 2, 3, 4, etc., as applicable, and attached to the previous check print(s). The checking follows the same procedure as that of the original Check Print, except that only the portions that changed are marked up as having been checked.

4.6.8 Preparing Technical Special Provision

Specifications define work items that are not and/or cannot be defined completely in the plans. For the purpose of this document, the term *specification* refers to a *Special Provision*.

A qualified engineer/designer composes and drafts the specification under the direction of the Senior Design Engineer. The Originator verifies that the new special provision will not duplicate or inadvertently supersede other specifications.

Complete all specifications and special provisions prior to the PS&E review to allow other design and construction disciplines to review the changes or additions prior to release for construction.

4.6.9 Engineer’s Estimate

Ensure that the Engineer’s Estimate is complete and accurate by doing the following:

1. List each bid item and quantity exactly as shown in the plans.

2. Match the bid item numbers and names with the applicable specifications and plan quantities.
3. When a specification defines a new bid item, add it to the project estimate and to the Measurement and Payment specification.
4. Provide the quantity and unit price for each item.
5. Verify that the unit costs are reasonable for the bridge type and location.

4.6.10 Measurement and Payment Specification

Check the Measurement and Payment document for correctness and completeness of structure items. Add additional items and information as necessary.

4.7 QC FOR ELECTRONIC DELIVERY

For the required electronic delivery process to be implemented, SDR will produce electronic deliverables in conformance with the LADOTD Software and Deliverable Standards for Electronic Plans document. The SDR team will follow LADOTD procedures and requirements in the Professionals Electronic Delivery System for complete electronic delivery (ED) of the project. SDR will upload (or check in) electronic deliverables directly into the LADOTD ProjectWise repository at each plan delivery milestone.

4.8 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 on the issue, who will then 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.

See Appendix G for **STRUCTURES COMMENTS AND RESOLUTION SHEET**.

5.0 DOCUMENTATION OF COMMENTS/RESPONSES AND QUALITY

5.1 DOCUMENTATION OF COMMENTS AND RESPONSES

All comments made by external reviewers will be recorded either by memos, letters or marked plans 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 will arrange for the meeting.

The Project Engineers/Planners/Scientists, who are responsible for the deliverable on which comments were received, will prepare responses to the comments. The responses will be written in a memorandum format and, at minimum, will 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 the LADOTD. The comments/responses memorandum is considered a project deliverable and will undergo the document QC and QA review processes. The PM will be responsible for the submittal of the comments/responses memorandum to the appropriate reviewing entity of the LADOTD.

Electronic Review Comments (ERC) will be responded to via the internet using the format integrated into the ERC system and responded to in a manner similar to that described above. The ERC review comments and responses will be posted on the LADOTD internet address and will be checked monthly following each phase submittal.

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

5.2 QUALITY ASSURANCE RECORDS

The PM will be responsible for maintaining copies of the submitted comments/responses memorandums, the QC review checkprints and forms of the memorandums, and the initialed memorandums in the project files.

6.0 CONTROL OF SUBCONSULTANT QC PROCESS

Coordination will be maintained with all subconsultants throughout the project. Attention will be placed on critical path activities involving subconsultants. The subconsultants will be provided with the information they need in a timely manner to help them accomplish their tasks. Regular meetings will take place to facilitate this coordination and give them direction on the expected deliverables.

As part of their QC plans, the subconsultants will conduct quality reviews of their submittals to SDR. The subconsultants will provide evidence of their QC reviews to SDR, which the PM will archive within the project's QC files. Prior to the use of each subconsultant's deliverable or its incorporation into other project work, and/or its submission to LADOTD, the PM will check this work for technical adequacy, consistency with the Scope of Services, and for meeting the project's quality requirements. This review, however, will not substitute for the

QC and QA review process that each subconsultant must implement in accordance with their QC plans.

7.0 QUALITY RECORDS AND AUDITS

7.1 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's files for each submitted deliverable:

- The QC review checkprint(s); the checkprints can be in various formats:
 - Paper format with hand written markups.
 - Electronic .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 Certificate of Compliance.

7.2 INTERNAL QUALITY AUDITS

In accordance with our QC/QA policy, SDR conducts annual quality audits for a sampling of projects at each office location. The project quality audits are conducted by certified internal auditors who are independent of the projects.

APPENDICES

Appendix A

STRUCTURES SITUATION & LAYOUT DESIGN APPROVAL

SDR Engineering Consultants, Inc.

STRUCTURES SITUATION & LAYOUT DESIGN APPROVAL

Project Number: _____ Project Name: _____

PIN: _____ Structure No.: _____ Structure Type: _____

Structure Description: _____

ATTACHED ITEMS:

The following items are completed and attached:

- ☐ Situation & Layout sheet (s)
- ☐ Design Plan Design Quality Certification (completed for S& L plan sheets)
- ☐ Bridge Type Selection Report
- ☐ Preliminary Seismic Strategy Report
- ☐ List of Computer Software to be used in Final Design
- ☐ Design Criteria
- ☐ Design Exceptions Approval Form (if applicable)

LEAD STRUCTURAL DESIGNER

I certify that the attached Situation & Layout plans for the specified structure are complete, meet all applicable design requirements, and are ready for approval.

Signature: _____ Date: _____

Design Firm: _____

APPROVAL

I approve the submitted Situation & Layout plans for the specified bridge.

Signature: _____ Date: _____

Note: Approval of Situation & Layout plans is required prior to beginning the final design. Approval requires the submittal of all items listed in the Attached Items box.

Appendix B

60% DESIGN REVIEW CHECKLIST

<u>SDR Engineering Consultants, Inc.</u> <i>60% DESIGN REVIEW CHECKLIST</i>			
Project Number:		Project Name:	
Structure No.:		Structure Type:	
Structure Description:			
Inc.	N/A	<u>TASK</u>	<u>PHASE</u>
☐	☐	Design Criteria Summary	
☐	☐	Consultant Submittal QC/QA Certification	
☐	☐	Design Calculations	
☐	☐	Flexural Design	
☐	☐	Shear Design	
☐	☐	Bearing Design	
☐	☐	Development of Special Details	
☐	☐	General Notes	
☐	☐	Girder Properties and Strand Pattern Template	
☐	☐	Girder Details	
☐	☐	Girder End Details	
☐	☐	Build-Up and Deflection Diagrams	
☐	☐	Miscellaneous Details	
☐	☐	Bearing Details	
☐	☐	Transportation and Handling Guidelines	
☐	☐	Girder Span Details	
☐	☐	Typical Span Details	
☐	☐	Data Tables	
☐	☐	Girder Data Table	
☐	☐	Build-Up and Deflection Data Sheet	
Reviewer's Signature: _____ Date: _____			

Appendix C

CADD STANDARDS CHECKLIST

SDR Engineering Consultants, Inc.
CADD STANDARDS CHECKLIST

Project Number: _____ Project Name: _____
PIN: _____ Structure No.: _____ Structure Type: _____
Structure Description: _____
Plan Sheet Number: _____ Plan Sheet Name: _____
Filename: _____ Directory: _____

AT A MINIMUM, CHECK THE FOLLOWING:

Drawing Organization:

- ☐ All CADD contract drawing are produced in MicroStation format according to LADOTD CADD Standards
- ☐ File directory structure matches CADD Standards requirements
- ☐ File names comply with CADD Standards requirements. File names reflect the nature of their contents
- ☐ Reference files (stored as read only) are used instead of copying existing data into file
- ☐ Drawings/Details are referenced properly
- ☐ Correct seed files or libraries of standard details (stored as read only) are used
- ☐ Any changes to seed files are approved by the Senior Design Engineer
- ☐ All unnecessary (temporary) files are deleted from all directories

Drawing Content:

- ☐ Drawing is flattened (Drawn 2D)
- ☐ All details are drawn to scale
- ☐ Correct line styles are used and are on the correct levels
- ☐ Text is correct size and type
- ☐ All CADD-produced prints automatically produce the date, time, and filename printed
- ☐ Drawing compiles with LADOTD Structures Division Drafting Standards
- ☐ All dimensions are auto-dimensioned & auto-annotation is used as appropriate
- ☐ Use of tags and file referencing is used appropriately

REVIEWER

Signature: _____ Date: _____

Note: Record any comments on the Structures Review Comment Form.

Appendix D

FINAL DESIGN QA REVIEW CHECKLIST

SDR ENGINEERING
FINAL DESIGN QA REVIEW CHECKLIST

Project Number: _____

Project Name: _____

PIN: _____

Structure No.: _____

Structure Type: _____

Structure Description: _____

ATTACHED ITEMS:*The following items are completed and attached:*

- | | |
|---|--|
| ☐ 100% Structure Plan Set | ☐ Design Criteria Summary |
| ☐ Special Provisions | ☐ Approved Design Exceptions |
| ☐ Engineer's Estimate | ☐ Computer Design Software List |
| ☐ Electronic Design Files (MicroStation) | ☐ Final Seismic Strategy Report |
| ☐ Completed Design Certifications Forms | ☐ Bridge Load Rating Report |
| ☐ Final Bridge Design Calculations | ☐ Geotechnical Report |
| ☐ Independent Review Documentation (when required) | ☐ Previous Review Comments With Response & Dispositions |
| ☐ 60% Design Review Checklist | |

AT A MINIMUM, CHECK THE FOLLOWING:Completeness:

- ☐ Plans are complete, sealed and signed by Louisiana PE
- ☐ Special Provisions included for all work/bid items
- ☐ Engineer's Estimate complete
- ☐ Bid costs are reasonable
- ☐ Calculations are complete and organized
- ☐ Previous comments addressed
- ☐ Design Approvals
- ☐ Load Rating complete and summarized properly
- ☐ Design Checklists complete & included with calculations

Constructability:

- ☐ Design accommodates constructability
- ☐ Horizontal and Vertical clearances accommodates constructability
- ☐ Constructible details are used
- ☐ Construction sequencing is adequately addressed
- ☐ Shoring/Temporary Supports are adequately addressed
- ☐ Assess need for Contractor to submit Erection Plan

General:

- ☐ Design Meets Design Intent
- ☐ Seismic Strategy implemented appropriately
- ☐ Design software acceptable
- ☐ Detailing matches standards
- ☐ Standard Details are used appropriately
- ☐ Plan Quantities match Engineer's Estimate
- ☐ Compiles with Aesthetic requirements
- ☐ Significant design issues noted (Use comment form)

Maintainability:

- ☐ Appropriate materials used
- ☐ Maintenance-friendly details used
- ☐ Maintenance access provided as necessary

Inspectability:

- ☐ Inspection access is provided to all necessary components (bearings, expansion joints, closed sections, abutment backwalls, etc.)
- ☐ Inspection access meets safety requirements

Security:

- ☐ Public access to sensitive areas is prevented

REVIEWER*The specified bridge design documents are complete and recommended for approval.*

Signature: _____

Date: _____

Note: Record any comments on the Structures Review Comment Form.

Appendix E

DESIGN CALCULATIONS CHECKLIST

SDR Engineering Consultants, Inc.
DESIGN CALCULATIONS CHECKLIST

Project Number: _____

Project Name: _____

PIN: _____

Structure No.: _____

Structure Type: _____

Structure Description: _____

INCLUDE THE FOLLOWING:Organization:

- ☐ Title page with Structure Drawing Number, Structure Name, Design Calculations title, Designer's name
- ☐ Table of Contents
- ☐ Uses standard Structures Division letter-sized calculation sheets for handwritten calculations and sketches
- ☐ Uses standard letter-sized paper with standard Structures heading for computer generated calculations
- ☐ All pages numbered with numbering scheme that covers entire set of calculations
- ☐ Identifies appropriate code references in right hand column
- ☐ Computer documentation includes: name of program, vendor, version number, and release date
- ☐ Calculations cross-reference computer output as appropriate
- ☐ Stored in three-ring binder
- ☐ Check calculations stored in separate three-ring binder

Content:

- ☐ Complete Final Calculations
- ☐ All Design Certifications (place at beginning of calculations)
- ☐ All Design Approvals
- ☐ Design Criteria Summary
- ☐ Design Criteria Exceptions
- ☐ List of Computer Programs and Spreadsheets
- ☐ Bridge Type Selection Report
- ☐ Seismic Strategy Report (includes calculations)
- ☐ Load Rating Report
- ☐ Alternate Design Quality Plan Approval
- ☐ Completed Design Checklists
- ☐ Review Comments with Responses and Dispositions

REVIEWER

Signature: _____ Date: _____

Note: Record any comments on the Structures Review Comment Form.

Appendix F

STRUCTURE DESIGN CERTIFICATION FOR DESIGN CALCULATIONS

6/30/11

FORM SQ-1

SDR STRUCTURE DESIGN CERTIFICATION FOR DESIGN CALCULATIONS	
Project Number: _____ Project Name: _____ PIN: _____ Structure Number: _____ Structure Type: _____ Structure Description: _____ Type: ☐ Design Calculations ☐ Design / Field Change Certification For: ☐ Complete Design ☐ Partial Design. Specify: _____ Structures Quality Plan: ☐ SDR Structures QP ☐ Modified SDR Structures QP ☐ Approved Alternate	
DESIGN CERTIFICATION (Designer of Record) <i>By stamping and signing this section, I certify that the design documents specified comply with the requirements of the Project Design Criteria, including applicable AASHTO design specifications, and the Structures Design Quality Plan specified.</i> Print Name: _____ Date: _____ Design Firm: _____	PE Stamp (signed & dated)
DESIGN QC CERTIFICATION <i>By stamping and signing this section, I certify that the design calculations have been checked in accordance with the requirements of the Structures Design Quality Plan specified.</i> Print Name: _____ Date: _____ Design Firm: _____	PE Stamp (signed & dated)
DESIGN QA CERTIFICATION <i>By stamping and signing this section, I certify that I have verified that the QC for the design calculations specified above has been completed in accordance with the requirements of the Structures Design Quality Plan specified.</i> Print Name: _____ Date: _____ Design Firm: _____	PE Stamp (signed & dated)
Notes: 1. Design Certification is required for permanent structures of all types, including Bridge, Box Culvert, Multi-Plate Arch, Retaining Walls, Overhead Sign Structures, and Traffic, Signal, and Camera poles. 2. Attach signed approval forms for any approved modifications to the Structures Design Quality Plan. 3. Maintain all QC/QA records for a minimum of 3 years after project completion.	

Appendix G

STRUCTURES COMMENTS AND RESOLUTION SHEET

Appendix H

SAMPLE CERTIFICATIONS

STRUCTURES DESIGN CERTIFICATION FOR DESIGN PLANS

6/30/11

FORM SQ-2

SDR STRUCTURE DESIGN CERTIFICATION FOR DESIGN PLANS	
Project Number: _____ Project Name: _____ PIN: _____ Structure Number: _____ Structure Type: _____ Structure Description: _____ Submittal Type: ☐ S&L ☐ Final Design ☐ Design / Field Change ☐ As-Built Certification For: ☐ Complete Design ☐ Partial Design. Specify: _____ Structures Quality Plan: ☐ SDR Structures QP ☐ Modified SDR Structures QP ☐ Approved Alternate	
DESIGN CERTIFICATION (Designer of Record) <i>By stamping and signing this section, I certify that the design plans specified above comply with the requirements of the LADOTD Structures Design & Detailing Criteria.</i> Print Name: _____ Date: _____ Design Firm: _____	PE Stamp (signed & dated)
DESIGN QC CERTIFICATION <i>By stamping and signing this section, I certify that the design documents specified have been checked in accordance with the requirements of the Structures Design Quality Plan specified.</i> Print Name: _____ Date: _____ Design Firm: _____	PE Stamp (signed & dated)
DESIGN QA CERTIFICATION <i>By stamping and signing this section, I certify that I have verified that the QC for the design documents specified above has been completed in accordance with the requirements of the Structures Design Quality Plan specified.</i> Print Name: _____ Date: _____ Design Firm: _____	PE Stamp (signed & dated)
CADD STANDARDS CERTIFICATION <i>By signing this section, I certify that the structure plans specified above comply with the UDOT Structures CADD Standards.</i> Signature: _____ Design Firm: _____ Date: _____	
Notes: (1) Design Certification is required for permanent structures of all types, including Bridge, Box Culvert, Multi-Plate Arch, Retaining Walls, Overhead Sign Structures, and Traffic, Signal, and Camera poles. (2) Attach signed approval forms for any approved modifications to the Structures Design Quality Plan. (3) Maintain all QC/QA records for a minimum of 3 years after project completion.	

STRUCTURES FINAL DESIGN APPROVAL

6/30/16

FORM SA-3

SDR STRUCTURES FINAL DESIGN APPROVAL

Project Number: _____ Project Name: _____

PIN: _____ Structure Number: _____ Structure Type: _____

Structure Description: _____

ATTACHED ITEMS

The following items are completed and attached:

- ☐ Completed Structure Plans (Signed & Sealed)
- ☐ Specifications (Special Provisions)
- ☐ Engineer's Estimate
- ☐ Final QA Review Checklist
- ☐ All Design Certification Forms (for Final Design)
- ☐ Design Criteria Summary
- ☐ Approved Design Exceptions
- ☐ Computer Design Software List
- ☐ Final Seismic Strategy Report
- ☐ Geotechnical Report
- ☐ Bridge Load Rating Report
- ☐ Structure Design Calculations*
- ☐ Independent Review Checklist, Letter Report and Calculations (when required)
- ☐ Previous Review Comments With Responses & Final Dispositions
- ☐ Any other final design documents and reports, as appropriate

LEAD STRUCTURAL DESIGNER

I certify that the attached Final Design Plans, Specifications and Estimate for the specified structure are complete, meet all applicable design requirements, and are ready for approval.

Signature: _____ Date: _____

Design Firm: _____

APPROVAL

The submitted Final Design Plans, Specifications and Estimate for the specified structure are Approved for Construction.

Signature: _____ Date: _____

*Note: Approval of Final Design plans is required prior to advertising the project. Approval requires the submittal of all items listed in the Attached Items box. *Design calculations are required for all structure designs.*

CERTIFICATE OF COMPLIANCE

CERTIFICATE OF COMPLIANCE

TO: LADOTD Project Manager
Project Manager
LADOTD

DATE: Month XX, Year XXXX

RE: QUALITY ASSURANCE REVIEW

PROJECT IDENTIFIER #: XXXXXXXXXXXXXXXXXXXX
PROJECT NAME: XXXXXXXXXXXXXXXXXXXX
COUNTY: XXXXXXXXXXXXXXXXXXXX
SUBMITTED DOCUMENT(S): XXXXXXXXXXXXXXXXXXXX
CONSULTANT: SDR Engineering Consultants, Inc.
SUBCONSULTANTS : XXXXXXXXXXXXXXXXXXXX

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 project 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 project Scope of Services performance criteria and the LADOTD policies, standards and preferences.

SIGNED: _____ **Date:** _____
Name, P.E.
SDR Project Manager

SIGNED: _____ **Date:** _____
Name, P.E.
Quality Assurance Manager

Appendix I

QC/QA FORMS FROM LADOTD BDEM

(To be included in submittals)

(LADOTD BDEM Chapter 3 - Appendix A)

Design Criteria Checklist

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

- **Cover sheet**

The following information must be included on the cover sheet:

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

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

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

- **Design Assumptions and Design Exceptions**

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

- **General Information**

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

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

- **Hydraulic Design Criteria**

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

- **Design Factors**

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

- **Design Loads**

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

- **Limit States**
 - All applicable limit states for this project shall be listed in this section.
- **Bridge Barrier Railing**
 - The design criteria, types, and test levels for bridge barrier railings shall be listed in this section. Standard Plans should be listed if they are utilized.
- **Guardrail**
 - The design criteria, types, and test levels for guardrails shall be listed in this section. Standard Plans should be listed if they are utilized.
- **Approach Slab**
 - Design criteria for approach slab shall be included in this section. Standard Plans should be listed if they are utilized.
- **Deck and Deck Drainage**
 - All design criteria for deck and deck drainage design shall be included in this section. Standard Plans should be listed if they are utilized.
- **Bearing**
 - All bearing types and design criteria for each bearing type shall be included in this section. Standard Plans should be listed if they are utilized.
- **Joint**
 - All joint types and design criteria for each type shall be included in this section. Standard Plans should be listed if they are utilized.
- **Superstructure**
 - All superstructure types and design criteria for each type shall be included in this section. Standard Plans should be listed if they are utilized.
- **Substructure**
 - All substructure types and design criteria for each type shall be included in this section. Standard Plans should be listed if they are utilized.
- **Piles and Drilled Shafts**
 - All pile types, sizes, and structural design criteria shall be included in this section. Standard Plans should be listed if they are utilized.
- **Geotechnical Design**
 - All geotechnical design criteria shall be included in this section and the information shall be provided by the Geotechnical Engineer. Standard Plans should be listed if they are utilized.
- **Mechanical Design**
 - All mechanical design criteria shall be included in this section if applicable. Standard Plans should be listed if they are utilized.
- **Electrical/Lighting Design**
 - All electrical design criteria shall be included in this section if applicable. Standard Plans should be listed if they are utilized.
- **As-Designed Bridge Rating Criteria**
 - All as-designed bridge rating criteria shall be included in this section.
- **Software**
 - All software used for design and check shall be included in this section.

(LADOTD BDEM Chapter 3 - Appendix B)

Final Calculation Book Checklist

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

— Cover Sheet

The following information must be included on the cover sheet:

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

- **Final Calculation Book Check List**
- **QC/QA Certifications**
- **Peer Review Resolution Agreement (if peer review is performed)**
- **Design Criteria**
- **Final Hydraulic Analysis Report from Hydraulic Engineer**
- **Final Geotechnical Analysis Report from Geotechnical Engineer**
- **Superstructure Design Calculations**
- **Substructure Design Calculations**
- **Quantity Calculations**
- **Special Provisions/NS-Items**
- **Construction Cost Estimate**
- **As-Designed Rating Report**
- **List of All Final Electronic Design Files and File Locations (ProjectWise directory name)**

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

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

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

(LADOTD BDEM Chapter 3 - Appendix D)

QC/QA Certification

Project No.:

Project Name:

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

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

(LADOTD BDEM Chapter 3 Appendix I)
Consultant Submittal QC/QA Certification

Project No.:

Project Name:

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

Submittal Description

Supervisor or Team Leader Name

Signature

Date