



Louisiana Department of Transportation and Development

US 71: ICG RAILROAD OVERPASS REHAB (HBI) & US 71: MARKET ST BRIDGE OVER ICG RR (HBI)

Engineering and Related Services

Date March 18, 2026

Contract No. 4400034051



March 18, 2026

Louisiana Department of Transportation and Development
Hamed Babaizadeh, PhD, PE, LEED AP BD+C
LADOTD Project Manager
1201 Capital Access Road
Baton Rouge, LA 70802-4438



WSP USA
1100 Poydras Street
Suite 1175
New Orleans, LA 70163
www.wsp.com

**Re: Contract No. 4400034051 - US 71: ICG RAILROAD OVERPASS REHAB (HBI) & US 71:
MARKET ST BRIDGE OVER ICG RR (HBI)**

Dear Mr. Babaizadeh,

WSP USA Inc. (WSP) submits this Qualifications Statement using Form 24-102 in support of engineering and related services for Contract No. 4400034051, encompassing State Project Nos. H.012008.5 and H.012009.5 (Federal Aid Project Nos. H012008 and H012009) along US 71 in Caddo Parish. Our team of Louisiana-registered Professional Engineers and Professional Land Surveyors brings a wealth of bridge rehabilitation and replacement experience and has built a strong record of delivering transportation projects across Louisiana and throughout the region.

The scope of work consists of two components: the rehabilitation of the Spring St. historic bridge over ICG Railroad (RR), which was built in 1937 (H.012008), and the replacement of the two twin bridges on Market St. (H.012009) over ICG RR.

WSP's methodology aligns with LADOTD's defined tasks — document review and site inspection, development and evaluation of remediation strategies, and preliminary plan development (including typical sections, plan/profile, quantities, TMP elements, and cost estimating). Early in the effort, we will confirm design criteria and establish a practical baseline schedule and deliverable cadence in coordination with LADOTD's Project Manager.

WSP will also implement a project-specific Quality Management Plan (QMP) that defines independent technical reviews; interdisciplinary checks (railroad coordination, roadway, structure, traffic, drainage); comment resolution tracking; and back-check verification prior to each submittal milestone. This framework will apply not only to WSP deliverables but also to subconsultant work products for consistent documentation and certification at each submission.

Our Project Manager, Jonathon Seddelmeyer, PE brings 27 years of relevant experience focused on bridge planning, design, rehabilitation, and construction support for conventional and complex structures, including work involving railroad stakeholders. His railroad-related background includes obtaining railroad approvals for 12 completed overpasses and supporting preliminary layout/design for rail-impacted structures. He is supported by a strong team of experienced and dedicated professionals with the relevant qualifications, certifications, and experience to meet your requirements.

The complete WSP team brings you a suite of national bridge and railroad coordination experience and our firm commitment to provide exceptional Railroad Overpass Rehabilitation and Replacement services to the State of Louisiana.

Sincerely,
WSP USA Inc.

A blue ink signature of Max Nassar, written in a cursive style.

Max Nassar
Senior Vice President
Email: max.nassar@wsp.com

A photograph of a bridge over a railway track. A white SUV is driving across the bridge. The bridge has a metal railing and is supported by concrete pillars. The railway tracks are visible below the bridge, and there are trees and buildings in the background.

1.11



CONTRACT INFORMATION

DOTD FORM: 24-102

(Revised August 11, 2025)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

1. Contract Name as shown in the advertisement	US 71: ICG Railroad Overpass Rehab (HBI) & US 71: Market St. Bridge Replacement Over ICG RR
2. Contract Number(s) as shown in the advertisement	Contract No. 4400034051
3. State Project Number(s), if shown in the advertisement	H.012008.5 AND H.012009.5
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)	WSP USA 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)	EF.0000623
6. Prime consultant mailing address	1100 Poydras Street, Suite 1175 New Orleans, LA 70163
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	1100 Poydras Street, Suite 1175 New Orleans, LA 70163
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Max Nassar, Senior Vice President Senior Managing Director (LA, MS, AL) 225-218-3584 Max.Nassar@wsp.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Max Nassar, Senior Vice President Senior Managing Director (LA, MS, AL) 225-218-3584 Max.Nassar@wsp.com



CONTRACT INFORMATION

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

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

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:

Date: March 18, 2026

Firm(s)	Firm(s) %
N/A	N/A

A photograph of a bridge over a railway track. A white SUV is driving across the bridge. The bridge has a metal railing and is supported by concrete pillars. The railway tracks are visible below the bridge, and there are trees and buildings in the background.

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DISCIPLINE TABLE

12. DISCIPLINE TABLE:

As indicated in the advertisement, insert a completed table here. The percentages for the prime and sub-consultants must total 100% for each discipline, as well as the overall total percent of the contract.

The only disciplines to be used are listed in the drop down in each row (Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic). **Remove rows as needed.**

Discipline(s)	% of Overall Contract	WSP USA Inc.	Gresham Smith	Stanley Consultants, Inc.	Watermark Design Group, LLC	Terracon Consultants, Inc.	Lazenby & Associates, Inc.	T2 UES, Inc.	TRC Engineers, Inc.*	Each Discipline must total to 100%
Bridge	60%	59%	33%						8%	100%
Road	20%	10%		90%						100%
Geotech	5%	10%				90%				100%
Survey	3%	10%					90%			100%
Traffic	8%	25%	75%							100%
Data Collection	2%	35%						65%		100%
Other (Architecture)	2%	10%			90%					100%
Identify the percentage of work for the <u>overall contract</u> to be performed by the prime consultant and each sub-consultant.										
Percent of Contract	100%	41.1%	25.8%	18.0%	1.8%	4.5%	2.7%	1.3%	4.8%	100%

*TRC acquired by WSP Feb 24, 2026

"WSP thinks of construction before design."

Kusay Ali
LBL GEC Project Coordinator
TxDOT

A photograph of a bridge over a railway track. A white SUV is driving across the bridge. The bridge has a metal railing and is supported by concrete pillars. The railway tracks are visible below the bridge, and there are trees and buildings in the background.

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FIRM SIZE

13. TEAM SIZE:

For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify "Other (must specify)" and include the classification title inside the parentheses. The DOTD Job Classification(s) to be used can be found at the following link: <https://bit.ly/DOTDJobClassifications>

Firm name	DOTD Job Classification	Number of personnel committed to this contract*	Total number of personnel available in this DOTD Job Classification (if needed)
WSP USA Inc. (Louisiana/Texas)	Accountant	1	3
	Administrative	1	3
	CADD Technician	2	5
	Engineer	3	17
	Engineer Intern	3	6
	Inspector - Bridge	1	8
	Inspector - Lead	1	3
	Supervisor - Eng	8	15
Gresham Smith	Clerical	1	1
	Engineer	4	12
	Engineer Intern	4	12
	Planner	1	4
	Principal	1	1
	Professional	1	4
	Senior Technician	2	6
	Supervisor - Eng	4	8
	Supervisor - Other	1	2
Stanley Consultants, Inc.	Supervisor - Eng	2	4
	Engineer	5	8
	Engineer Intern	3	5
	Senior Technician	0	1
	CADD Technician	1	3
	Administrative	1	2



FIRM SIZE

Firm name	DOTD Job Classification	Number of personnel committed to this contract*	Total number of personnel available in this DOTD Job Classification (if needed)
Watermark Design	Accountant	1	3
	Administrative	1	5
	Supervisor – Arch	1	1
	Architect	1	6
	Designer	1	2
	Clerical	1	3
	Engineer	0	0
	Engineer Intern	0	0
	Inspector	0	0
	Inspector – Certified	0	0
	Inspector – Lead	0	0
	Planner	0	0
	Principal	1	1
Terracon Consultants, Inc.	Principal	2	1
	Engineer	1	2
	Other (Drilling and Laboratory Manager)	2	2
	Supervisor - Eng	1	1
	Engineer Intern	1	3
	Geologist	1	1
	Technician	2	3
	Driller	5	5



FIRM SIZE

Firm name	DOTD Job Classification	Number of personnel committed to this contract*	Total number of personnel available in this DOTD Job Classification (if needed)
Lazenby & Associates, Inc.	CADD Drafter	2	4
	CADD-Operator	1	1
	Clerical	0	3
	Engineer	3	7
	Engineer Intern	1	1
	Instrument Man	2	2
	Party Chief	2	2
	Rodman	2	2
	Supervisor - Eng	1	3
	Surveyor	1	2
	Principal	1	1
T2 UES, Inc.	Technician	4	12
	Senior Technician	2	6
	Supervisor - Eng	1	3
TRC Engineers, Inc.*	Principal	1	3
	Supervisor - Eng	1	9
	Supervisor - Other	1	1
	Engineer	3	21
	CADD Technician	1	7
	Inspector - Bridge	1	20

*TRC acquired by WSP Feb 24, 2026

(Add rows as needed)

*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.

A photograph of a bridge over a railway track. A white SUV is driving across the bridge. The bridge has a metal railing and is supported by concrete pillars. The railway tracks are visible below the bridge, and there are trees and buildings in the background.

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14. ORGANIZATIONAL CHART:



A photograph of a bridge over a railway track. A white SUV is driving across the bridge. The bridge has a metal railing and is supported by concrete pillars. The railway tracks are visible below the bridge, and there are trees and buildings in the background.

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PERSONNEL REQUIREMENTS

15. MINIMUM PERSONNEL REQUIREMENTS:

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	Jonathon Seddelmeyer, PE		PE #49811 - Civil	LA	09/30/2027
2	Jonathon Seddelmeyer, PE		PE #49811 - Civil	LA	09/30/2027
3	Jonathon Seddelmeyer, PE		PE #49811 - Civil	LA	09/30/2027
4	Hatem Seliem, Phd, PE		PE #39759 - Civil	LA	09/30/2027
	Durk Krone, PE	 <i>*TRC acquired by WSP Feb 24, 2026</i>	PE #31955 - Civil	LA	03/31/2028
5	Ronald Rigglin, PE, PLS		PE #36016 - Civil PLS #0005119 - Surveying	LA LA	03/31/2027 03/31/2027
6	Lynne Roussel, PE		PE #35152 - Civil	LA	03/31/2028
	Stephen Greaber, PE		PE #26107 - Civil	LA	09/30/2027
7	Matt Minton		N/A		
8	Blake Roussel, PE		PE #33279 - Civil	LA	09/30/2027
	Adam Fields, PE		PE #35614 - Civil	LA	09/30/2026
9	Herbert "Bert" Moore, PE		PE #31065 - Civil	LA	09/30/2026
	Alben Cooper III, PE		PE #36291 - Civil	LA	09/30/2027
10	Ossama Ramadan, PE, PTOE		PE #43893 - Civil PTOE #4774	LA DC	03/31/2028 No Exp.



PERSONNEL REQUIREMENTS

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
11	John Weres, PE	 Gresham Smith	PE #36429 - Civil	LA	09/30/2027
	Courtney Rome, PE	 Gresham Smith	PE #43355 - Civil	LA	09/30/2027

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16. STAFF EXPERIENCE:

Click to return to the Organizational Chart



Firm employed by	WSP USA Inc.		
Name	Max Nassar	Years of relevant experience with this employer	6
Title	Project Principal/Governmental Liaison	Years of relevant experience with other employer(s)	43
Degree(s) / Years / Specialization	BA / 1976 / Psychology		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	Management
Contract role(s) / brief description of responsibilities	 Mr. Nassar is a native of Jefferson Parish, Louisiana and has spent 30 years in executive level positions in Fortune 500 Companies in both the manufacturing/industrial sector and architectural engineering consulting services sector. Over the past 20 years, he has overseen a multiplicity of infrastructure projects in the southeast United States, and Central America, with a value in the billions. Many of these projects have been in southeast Louisiana and have been performed for a variety of public and private clients including Louisiana Department of Transportation and Development, The Mississippi Department of Transportation, The Louisiana Department of Natural Resources, The New Orleans Regional Planning Commission, The New Orleans Regional Transit Authority, and others. Max's international experience includes port and harbor consulting at Puerto Cortes in Honduras, and construction oversight of the Port Connector Roadway in Honduras and Guatemala. He has successfully led negotiations and mediations for a variety of private clients.		

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 – Ongoing	Louisiana Department of Transportation and Development (LADOTD); Contract FOR Five Movable Bridges, Vermillion, St. Martin, Assumption, and Cameron Parishes, LA: Project Principal. WSP USA was selected by the Louisiana Department of Transportation and Development to both inspect and to develop a rehabilitation or replacement plan for five movable bridges located in various Parishes across Louisiana. As part of the project scope, WSP will perform site inspections and an LRFR Load Rating and/or NBIS In-Depth inspection on the five bridges. The load rating shall be based on the current condition, capacity, and loading of the bridge structure, and shall be performed on all load carrying members including approach spans and movable spans. The development of preliminary and final plans as well as all construction related engineering services are also included in the assignment. As a part of the Construction Plan Set, WSP will prepare and submit a Transportation Management Plan. Many bridges in Louisiana have been designated “Historic” in the Section 106 document “Programmatic Agreement Regarding Management of Historic Bridges in Louisiana.”
06/20 – Ongoing	LADOTD, 23: Belle Chasse Bridge and Tunnel Public-Private Partnership (P3), LA: Project Principal. Assisted and supported the LADOTD in Contract Administration of the P3 Comprehensive Agreement and Technical Provisions as well as Reviews of Project Management Plans. Reviews included Demolition and Abandonment Baseline Inspection of Vertical Bridge and Element Condition Report, Review of Toll Management Plan including design and installation procedures, testing plan, manuals, documentation and FAT results and review of Toll Management Plan. The project also included Design Support Services and Project Oversight and Acceptance as related to the Vertical Lift Bridge Demolition or Maintenance and for the Toll Collection System.

STAFF EXPERIENCE

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
04/21 – Ongoing	Program Management, Port of South Louisiana, Board of Commissioners Port of South Louisiana, St. Charles, St. James and St. John Parishes, LA: Project Principal. The Port of South Louisiana (The Port) is a major bulk and grain exportation facility and touts itself as the “largest tonnage port district in the western hemisphere”. The Port Jurisdiction encompasses 54 Mississippi River Miles midway between New Orleans, Louisiana and Baton Rouge, Louisiana and offers excellent intermodal opportunities via Mississippi River deep draft, East-West and North-South Interstate Highways, three Class 1 Rail Lines, and air via an existing executive airport. The Program Management assignment includes but is not limited to oversight of the Master and Strategic Planning efforts including implementation, Grants Application and Management, Procurement Support including Assessment of Consultant Capabilities, Alternative Delivery and Public Private Partnerships, Design Management and Construction Administration through the life of the contract. The Program also includes the creation of a Project Controls system for the Port.
07/20 – 09/23	LADOTD Contract for Innovative Procurement and Alternative Delivery Support Services, LA: Project Principal. The project includes provision of engineering, financial management, management and administrative advice and services to assist with Innovative Project Delivery Methods in connection with administering the procurement process of Design Build, Construction Management as Risk, and/or P3 Projects. The current effort includes leading the procurement of the \$1 billion Calcasieu Bridge in Lake Charles, Louisiana. Included in the effort is a Level 2 Toll Study. The Calcasieu Bridge is one of the most critical projects in Louisiana’s Transportation System as well as along the I-10 East West Trade Route. It has been identified as detrimental to economic development.
02/19 – 02/20	Port of New Orleans, Seabrook Bridge Span Replacement Project, New Orleans, LA: Project Principal. This span replacement project included structural design, coordination of the the preparation of plans and specifications, and assurance of timely delivery to the client. The Seabrook Bridge is a Strauss-Trunnion Bascule Bridge over the Inner Harbor Canal in New Orleans. The Port of New Orleans is replacing the approach spans to the main movable section of the bridge.
05/19 – 07/19	Port of New Orleans, Almonaster Bridge Span Replacement Project, New Orleans, LA: Project Principal. This span replacement project included structural design, coordination of the the preparation of plans and specifications, and assurance of timely delivery to the client. The Almonaster Bridge is a Strauss-Trunnion Bascule Bridge over the Inner Harbor Canal in New Orleans.
03/18 – 03/20	Yuhuang Chemical Inc., Traffic Turn Lanes on Highway LA 3127, St. James, LA: Project Principal. Design of two turn lanes into the Yuhuang Chemical Methanol plant in St. James Louisiana. During the construction phase, Max provided the owner with construction design services.
08/22 – 09/23	Mississippi DOT, Greenville Mississippi Cable-Stay Bridge Inspection and Testing, MS: Project Principal. WSP conducted a thorough safety inspection of the Greenville Bridge, including: Routine NBI Inspection; Element-level Inspection; Repair Assessment: Identifying repair needs; Fracture-critical Inspection: Focused on critical edge girders and floorbeams; Hydrographic Survey: Mapping the river channel; Deck Elevation Survey; Hands-on Visual Inspection: Examining stay cables and anchorages; In-depth Cable System Inspection: Measuring cable force in 112 cables and ultrasonic testing of 28 anchorages; and Cleaning and Greasing Caps: Preventing corrosion at 28 locations. WSP utilized rope access techniques to access the exterior of the pylons with eight certified professionals, including two SPRAT Level III technicians. WSP utilized Drones, particularly the Skydio S2+, to inspect the cable sections beyond rope access reach. Stay-cables underwent ultrasonic testing within 10 feet of each anchorage. Cable tension was assessed through vibration methods using piezoelectric accelerometers. Each cable underwent three tests. This comprehensive inspection ensured the US 82 Bridge’s safety and structural integrity, adhering to standards, using specialized equipment, and involving a highly skilled team.

16. STAFF EXPERIENCE:

Click to return to the Organizational Chart



Firm employed by	WSP USA Inc.		
Name	Jonathon Seddelmeyer, PE	Years of relevant experience with this employer	8
Title	Project Manager/Bridge Designer	Years of relevant experience with other employer(s)	19
Degree(s) / Years / Specialization	MS / 2000 / Structural Engineering; BS / 1997 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 49811 / LA / 09/30/2027; 91651 / TX / 03/31/2026; 37329 (also licensed in CO & OK)		
Year registered	2009	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Mr. Seddelmeyer is experienced in the design and inspection of conventional and complex bridges, retaining walls, culverts, overhead signs and other transportation structures. Jonathon's career has focused on project feasibility and development, delivery of quality structural plans and providing technical support through the end of construction. Jonathon's project management duties have included supervising and coordinating the work of engineering teams, technical personnel, and subconsultants. He has also served as an extension of the owner's staff as a prime management consultant. He is experienced with the design-bid-build, design-build, and construction manager at risk methods of project delivery. He has experience working with railroad agencies including obtaining railroad approvals for 12 completed overpasses and the preliminary layout and design of the Texas High Speed Rail viaduct. Meets MPR #1/2/3/4		

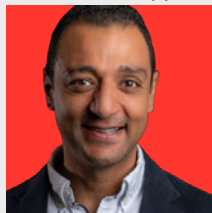
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
07/21 - Ongoing	TxDOT, I35 Capital Express Central (Lady Bird Lake), Austin, TX. Bridge task leader for structural design of this \$764M project to widen 3.55 miles of I35, add managed lanes, and improve pedestrian access from SH 71 to the south end of downtown Austin. Jonathon was EOR for eight of the bridges, including the four new Lady Bird Lake bridges that are designed for Colorado River flood and scour conditions. The project also features an elevated SPUI at E Riverside Blvd that accommodates future CapMetro light rail lines. One pedestrian lake bridge also carries a 24” force main for City of Austin Water. Significant interdisciplinary coordination incorporated aesthetics, shade structures and other pedestrian amenities, landscaping irrigation, and underbridge lighting within a tight design schedule. Jonathon provides ongoing construction phase services for this project.
10/19 - 12/24	TxDOT, I35E, Lewisville, TX. Bridge task leader/EOR for the four mainlane bridges on this \$218M project to widen and add managed lanes for I35E, which is on the freight network. The roadway is being flipped at Corporate Drive to carry I35E mainlanes on bridge and eliminate vertical clearance limitations. Business 121 is a wide cross-street with high skew and Texas turnarounds, and Jonathon value engineered the steel girders from the schematic design to prestressed concrete girders. Structure depth needed to be minimized to provide 18'-6" vertical underclearance, and Jonathon designed Tx46 girders and straddle bents with post-tensioned inverted-t caps. Three construction stages are required for each overpass to maintain traffic on this critical corridor.

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).
03/15 - 03/18	Ship Channel Bridge, Harris County, TX. PMC Main Bridge Coordinator and extension of HCTRA staff responsible for managing three consultant design teams to replace 2.6 miles of Beltway 8 that includes removing the functionally obsolete Ship Channel Bridge. The main bridge and approaches have an overall length of 11,081', and the 1,320' cable-stay main span provides 175' vertical navigation clearance and has 514' tall pylons placed on land to allow future widening of the Channel. Jonathon was responsible for the day-to-day progress of the project that included developing contract scope, schedule, design criteria, and submittal checklists, verified consultant compliance through regular progress meetings and invoice reviews, obtained necessary survey, geotechnical, and SUE information, and performed constructability or QA reviews of all submittals. Jonathon worked with the USCG, UPRR, PTRR, Kinder Morgan Deep Water, and franchise utilities within “Pipeline Alley” to obtain the necessary permits, approvals, or agreements. He also prepared the project-specific specification book, final contract documents, bid item lists, and other forms provided to contractors for bidding.
10/13 – 03/15	TxDOT, North Carolina Drive, El Paso, TX. Bridge Task Lead. Jonathon was EOR for the North Carolina Dr. Overpass, which is 656' long and crosses three UPRR main tracks, a future track, a yard lead track, the historic Franklin Canal, access roads, and numerous utilities. North Carolina Dr. is a major traffic lifeline that connects Alameda Ave. with Stiles/Franklin Ave. within approximately 75' of ROW. The replacement bridge satisfies all railroad criteria, eliminated the functionally obsolete rating, improves traffic flow and pedestrian access by changing from four lanes to two with a center turn lane and wider sidewalks, and has 6% approach grades. Jonathon designed a three-span continuous steel plate girder main span unit and two Tx46 prestressed girder end spans that are on a tangent alignment with 45° skew. Innovative lean-on bracing was used to reduce steel quantities. Bolted splice locations were carefully chosen so that temporary shoring satisfies railroad construction clearance, and AutoTURN analyses were performed to ensure girder sections could be delivered via access roads. Main span bents required crash walls. Aesthetic ornamental fences were designed to protect the UPRR and adjacent businesses.
01/12 – 05/14	TxDOT, S.M. Wright Freeway - Phase I, Dallas, TX. Bridge Engineer/EOR for two bridges that were part of a large, multiphase project to reconstruct S.M. Wright from a high-speed freeway to low-speed urban arterial. Phase 1 constructed new direct connector ramps from C.F. Hawn Freeway to I-45. Jonathon was responsible for the 5497' long, 45-span, Pennsylvania Ave. to SB I-45 ramp that crosses Lamar Blvd.; the UPRR with 300'-long, horizontally curved, variable width, continuous steel I-girders; and the Trinity River levee. Jonathon was also responsible for the Bexar Street Overpass on C.F. Hawn, which was constructed in two stages to maintain traffic.
11/05 – 09/06	LADOTD, I-10 Lake Pontchartrain Bridges, New Orleans, LA: Bridge Engineer/Deputy PM. Alternate designs for conventional beam-slab (selected) and segmental construction were competitively bid to help reduce the cost to replace the Twin Spans that were destroyed by Hurricane Katrina. Jonathon was responsible for the design of the precast segmental bridge alternate, and he coordinated the substructure design performed by local subconsultants. Freeboard was significantly increased to allow for 30' storm surge. Each new bridge carries three lanes of traffic plus shoulders, has crossovers for contraflow or other emergencies, and has a 200' main span for barge traffic. Jonathon also helped prepare the comprehensive Project Management Plan required by FHWA for Major Projects. Contract milestone incentives were included to expedite completion of the first bridge prior to the 2010 hurricane season
08/01 – 07/03	CDOT, 4th Street (SH 96) Bridge, Pueblo, CO. Lead Bridge Engineer. Jonathon investigated rehabilitating the functionally obsolete, seven-span, 1069' long, riveted continuous steel girder bridge and developed multiple bridge replacement layout options. The bridge crosses 23 UPRR and five BNSF tracks, the Arkansas River and floodwall, a trail, and a local street. The selected bridge alternate has parallel, post-tensioned concrete boxes with a main span of 378' to meet all railroad requirements and minimize interference to railroad operations. Jonathon proposed an innovative hybrid construction strategy that used CIP balanced cantilever erection with form travelers over the railyard, river, and floodwall and used CIP on falsework elsewhere to reduce cost and risk for CDOT. Jonathon developed concrete box girder cross sections and post-tensioning layouts as well as sized substructure and foundations to include rail impact loads.

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Firm employed by	WSP USA Inc.		
Name	Hatem Seliem PhD, PE	Years of relevant experience with this employer	4
Title	Deputy Project Manager, Bridge Designer	Years of relevant experience with other employer(s)	16
Degree(s) / Years / Specialization	PhD / 2007 / Civil Engineering (Structural); MS / 2002 / Structural Engineering; BS / 2000 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 0039759 / LA / 09/30/2027; (also licensed in FL, GA, MD, MS, NC, SC, TX, VA)		
Year registered	2015	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Dr. Seliem will serve as the Bridge Design Engineer. He has 20 years of experience in structural engineering including serving as a lead design engineer on several large-scale projects. He was lead designer of reinforced concrete and prestressed concrete bridges and structures varying from simple slab spans to box concrete bridges. Further, he has vast experience for retrofitting structures and bridges using Fiber Reinforced Polymers (FRP) materials. Hatem has worked on Louisiana projects for 10 years including design, load rating, evaluation, and rehabilitation of bridge structures encompassing simple slab span to complex bridges. Meets MPR #4		

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).
06/25 - Ongoing	ALDOT, Replacement of I-59/I-20 Bridges over Valley Road, Jefferson County, Alabama. Lead Design Engineer responsible for the structural design and plans development of the superstructure and substructure of the two replacement bridges. Tasks also included coordinating with geotechnical and hydraulic engineers for design of deep foundations. Further Hatem was the designer of the steel plate girder span crossing the I-59/I-20 off ramp. The two bridges superstructure consists of precast prestressed concrete (PPC) girders supported by reinforced concrete column bents with drilled shafts.
03/25 - Ongoing	NCDOT, I-26 Connector Design-Build (DB), Buncombe County, North Carolina. Design engineer responsible for the design and plans development of the two-span, curved steel plate girder spans with a total length of approximately 400 ft. Further, he is responsible for the design of the reinforced concrete column bents supporting the steel spans. In addition, Hatem was the design engineer of the 90 ft. span post-tensioned straddle bent crossing the Smith Creek.
10/19 – 10/22	LADOTD, MacArthur Interchange Completion, Phase II, Louisiana. Bridge EOR responsible for the structural design of the superstructure and substructure, deck drainage design, and construction cost estimate. Further Hatem was the Project Manager to coordinate with subconsultants and LADOTD Project Manager. The project constitutes Providing two new, on-ramp and off-ramp connections between the eastbound of the elevated West Bank Expressway (US 90-Z) and Frontage Road, demolish the existing off-ramp, and widening of the US 90-Z bridge structure to accommodate the new ramps.
09/20 – 06/21	LADOTD, Load Rating of 396 Bridges, Louisiana. Team Leader responsible for the load rating analysis and critical review of Finite Element models and structural analysis. This project involved the load rating of 396 existing off-system bridge structures by the Load and Resistance Factor Rating method (LRFR). Bridge types included prestressed concrete girder bridges, steel girder bridges, precast and CIP slab bridges, concrete culverts, swing bridges, and timber bridges. Three-dimensional finite element modeling is used as necessary for the complex bridges.

STAFF EXPERIENCE

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
02/20 – 11/20	LADOTD, Evaluation of Bridge Deficiencies-Concrete Piles Repair, Louisiana. Led the research team, developed the final report, developed repair plans. Deteriorated concrete piles exhibit different signs of distress, depending on exposure environments, stress level, and construction quality. The scope of this work was to research and identify effective repair systems and/or methods to be used for routine and typical maintenance, of RC and PPC piles for above water and underwater applications.
05/19 – 12/19	LADOTD, Non-Destructive Evaluation and Load Testing of Seven Posted Bridges, Louisiana. Reviewed and validated finite element analysis results. Provided approval of instrumentation planning, review/validation of diagnostic load testing results, and review of final reports and commencement of results. The scope of work was to evaluate seven bridges, five of which are movable bridges, that are posted for a load lesser than the Legal Loads and/or Special Hauling Vehicles. The evaluation was carried out utilizing load rating analysis and load testing coupled with detailed 3-D Finite Element Analysis with the aim of removing current load posting.
06/19 – 03/20	LADOTD, I-20 over Lakeshore Drive and KCS RR, Caddo Parish, Louisiana. Provided review of existing documents including as-built plans, load rating reports, and inspection; QC/QA review of the structural analysis and design of rehabilitation; and Construction cost estimate. Provided Stage 0 Design (Feasibility Study) for four bridge structures of I-20 crossing over Lakeshore Drive and KCS Railroad in Shreveport, LA. Design of rehabilitation to improve the bridges conditions, service life, and load rating was carried out. Different rehabilitation alternates were designed and detailed.
03/19 – 09/19	LADOTD, Evaluation and Load Rating of 27 Complex Off-System Bridges, Louisiana. Team Leader responsible for the load rating analysis and critical review of Finite Element models and structural analysis. Included evaluation and load rating of 27 complex off-system bridges. The bridge types included, steel I-beam, plate girder swing spans, plate girder continuous spans, plate girder bascule spans, low truss swing spans, plate girder swing spans and steel box girder.
04/18 – 04/19	LADOTD, LA 182 Over Atchafalaya River (Berwick Bay), Louisiana. Provided QC/QA review of rehab design including FRP, jacking design for bearings replacement; QC/QA review of construction plans; developed the Specifications of Non-Standard items. The simple through truss bridge carries LA 182 over the Atchafalaya River has a total length of 3,746 ft. The approach spans consist of RC slab spans, RC T-beam spans, and two deck truss spans. The navigational spans consist of three through truss spans. Scope of work included evaluation of the existing bridge, rehabilitation design; developing construction plans; perform diagnostic load testing on RC T-beam approach spans; and load rating analysis of the rehabilitated bridge.
05/16 – 04/18	LADOTD, US 80 Red River Bridge Inspection, Load Rating, and Rehabilitation, Louisiana. Provided structural analysis of the main span trusses using refined analysis, inspection team leader conducting hands-on inspection and ultrasonic testing of steel pins; and QC/QA review activities: load rating analysis; evaluation report; design of truss members rehabilitation; design of substructure rehabilitation; and construction plans. The bridge built in 1934 is a historic bridge carrying US 80 over the Red River at Shreveport with a total length of 2,895 ft. The approach spans consist of RC T-beam spans, steel girders, and steel deck trusses. The main spans are three-span steel truss with a total length of 884 feet. Scope of work included in-depth inspection of the entire bridge structure; evaluation of the structural strength; load rating of the deficient structure; rehabilitation design; plans development; and construction support.
08/14 – 08/15	LADOTD, LA 66 Big Bayou Sara Bridge, Louisiana. Analyzed the “ponny” trusses under the effect of different loads; and detailed review of rehabilitation design and construction plans. The historic bridge was built in 1949. It consists of five, 100 ft. steel pony truss spans and five 40 ft. steel I-beam approach spans. Services included: inspection and evaluation of the existing structure, rehabilitation design for the superstructure and substructure, development of construction plans, and design of temporary two-lane detour steel panel bridge to maintain traffic during construction.

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Firm employed by	WSP USA Inc.		
Name	Lloyd (Mark) Pearson, PE	Years of relevant experience with this employer	4
Title	QA/QC; Railroad Coordination	Years of relevant experience with other employer(s)	42
Degree(s) / Years / Specialization	ME / 1979 / Structural Engineering; BS / 1977 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 39629 / LA / 09/30/2025 (also licensed in AL; MS; FL; GA; NC; SC; VA)		
Year registered	2015	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Mr. Pearson is a bridge inspection and preservation manager, senior bridge engineer and project manager. He has functioned as task lead, EOR, design engineer, and QA/QC reviewer and manager on a variety of bridge replacement, widening, inspection, load rating and rehabilitation tasks in Alabama, North Carolina, South Carolina, Florida, Georgia, Tennessee and Virginia over a 40+ year career. He has been QC manager for several design-build projects and pursuits in NC and FL and has provided independent peer reviews for complex bridges in FL. He is currently task manager for post-tensioned spliced girder bridge in Mississippi replacing steel through-trusses. Recent tasks have included quality control and quality assurance reviews of bridge load ratings in NC, SC and VA (using AASHTOWare BrR) and reviews of bridge rehabilitation and repair plans in NC and SC. Mark also managed QA/QC reviews for up to five roadway widening projects in Division 6 for NCDOT in 2017-2019.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
11/22 - 02/26	MDOT, US 98 over Homochitto River, Franklin County, MS: Project Manager for final bridge design services and preparing contract plans and specifications for the new six span, 935-foot replacement bridge over the Homochitto River. The main superstructure unit is a 560 foot, three span continuous post-tensioned splice concrete girders using 78” Florida I-Beams, haunched over the main interior bents. The three approach spans are 125’ each with 54” Florida I-Beam super structure. Substructure is reinforced concrete post and beam interior bents with drilled shafts and reinforced concrete end bent caps on 24” diameter steel pipe piles. Mark’s duties include project management, coordination of WSP’s design and field engineering services: his coordination and review for shop drawings and contractor submittals is ongoing through construction.
05/17 - 09/19	NCDOT, Division 9 General Engineering Services Consultant (GESC) LSA, NC: Program Manager. Responsible for railroad coordination of the Division 9 GESC LSA. Provided cafeteria style project design services for several projects including drainage and erosion control design for interchange ramp improvements in Buncombe County, traffic control design services for improvements on I-40 in Davidson County
02/15 - 11/16	Norfolk Southern Corporation, NCDOT Maintenance Facility Access Improvements, Charlotte, Mecklenburg County, NC: Task design manager and engineer-of-record. Responsible for railroad coordination including upgrading crossovers on main tracks, replacing siding capacity, providing a new construction access and staging areas in preparation for relocating NCDOT Maintenance Facility access.

STAFF EXPERIENCE

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
07/18 – 12/22	SCDOT, Bridge Inspection and Load Rating, SC: Senior Load Rater/QC Manager on this contract, which consisted of bridge inspection and determination of the load capacity ratings utilizing BrR and CSI bridge for 2,558 structures including truss, segmental, curved steel girder, movable and significantly retrofitted structures. WSP reviewed the plans, inspection reports, previous load ratings and all other available relevant bridge documents. The load ratings were completed utilizing the information provided by SCDOT and supplemented with information from our field inspections. All load ratings were completed with BrR or CSI Bridge. WSP also utilized drones as an inspection tool to help identify specific areas of bridges where a “hands-on” inspection is required. This resulted in reduced time required for traffic control and access equipment, providing a significant cost savings to SCDOT. In addition, WSP performed and Mark QC’d 160 load tests involving instrumenting the bridges with strain gauges and driving known loads across the bridge, to assist SCDOT with advanced load posting avoidance measures. The results of the test were utilized to create corrected effective structural models to increase and remove load postings from bridges across the state. These results were extrapolated out, to not only remove postings on the bridges tested, but also on similar bridges in SCDOT’s inventory. WSP efforts saved the State tens of millions of dollars.
05/17 – 03/19	City of Oxford, AL, Leon Smith Parkway Bridge Widening over Choccolocco Creek, in Calhoun County: EOR for widening design of a 4 x 100-foot span bridge and a 5 x 100-foot span bridge utilizing prestressed concrete bulb-tees as sub to the prime design firm, GMC, Inc. Work included checking designs and plans sheets and directly supervising the design. Project was reviewed by ALDOT on behalf of the Town of Oxford and partly state funded. (Construction 2021).
05/16 – 07/18	City of Raleigh, NC, B-5556 Replacement of Bridge No. 490 on Lake Dam Road (SR 1427), City of Raleigh Public Works, NC: Project Manager for bridge replacement project with Categorical Exclusion (CE), surveys, hydraulic (FEMA) modeling, utility design/coordination and permitting. Engineer-of Record for design of the 100 foot, two-span precast cored slab bridge replacement. Work included checking the plans and calculations, supervising the design and providing engineering support services. (Construction 2018)
04/16 – 08/16	CFX (FDOT) Ramp G Bridge in SR 417 Boggy Creek Interchange, Load Rating (Bridge 750804), Central Florida Expressway, Orlando, FL: Engineer-of-Record for structural load rating of four-span, curved, twin steel box girders spanning 201.75 ft - 246.92 ft - 201.75 ft - 246.92 ft.
02/09 – 07/14	Florida DOT - District 4, I-595 Express Lanes (DB) between I-75 and I-95, Broward County, FL: Bridge Design Task Leader and Engineer of Record. Mark was responsible for the final structure designs for 20 bridges in the DB phase of a P3 toll project. Designs included 15 highway bridges and five bicycle and pedestrian bridges. Roles included preparing preliminary designs, directly supervising and checking final plans and calculations, writing special provisions, preparing estimates and providing bridge ratings in BrR and construction phase engineering support services. Bridges included curved girders with integral caps.
02/13 – 12/13	NCDOT Rail Division, Project P-5201, Morrisville Parkway underpass of Norfolk Southern, Structure Design, Morrisville, Wake County, NC: Structures task manager and engineer-of-record for a new four-span, curved, ballast deck railroad bridge over Morrisville Parkway. Structure featured drilled shaft piers, steel pile abutment foundations, temporary tie-back soldier pile shoring wall and steel plate girders and rolled beams. Roles included preliminary design, checking final calculations and plans, directly supervising the design, writing special provisions and preparing estimates. (Design 2013; Construction 2016).
04/09 – 07/10	Tennessee Steel Truss Bridge Ratings, TN: EOR for member rating analysis of three steel truss bridges in Tennessee: Old SR25/ Cumberland River with 316-foot main span through truss and deck truss approaches; SR375/German Creek with 282 feet main span through-truss; and SR 67/Watauga River with 492 feet main span deck truss. Role included supervising and checking the manual calculations and VIRTIS/BrR analysis.

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Firm employed by	WSP USA Inc.		
Name	Mikki Taylor-Hendrix	Years of relevant experience with this employer	4
Title	Public Outreach Coordination	Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization	MS / 2016 / Urban and Regional Planning; BS / 2012 / Urban Studies		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	 Ms. Taylor-Hendrix is a seasoned communications and public involvement strategist, specializing in community engagement, stakeholder engagement, communications and outreach plan development, social media strategy and transit planning. Mikki has over 10 years of experience working in public transit at the intersection of community engagement, transit planning, and transit partnerships. Her work has allowed various agencies to maintain and improve their relationships with transit riders, advocacy groups, and local stakeholders.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
11/24 - Ongoing	Universal Accessibility Study, New Orleans Regional Transit Authority (NORTA), New Orleans, LA: Outreach Lead. WSP is leading the Universal Accessibility Study NORTA, the first of its kind, identifying existing accessibility gaps within NORTA's system, made up of fixed route bus transit, rail transit, ferry and para transit services. Once gaps were identified through a gap analysis, the study moved to identifying solutions, and developing a prioritization plan including identifying funding options to resolve. WSP worked with two Disadvantaged Business Enterprise (DBE) subconsultants to execute this study. Mikki's role is to manage the subconsultant collaborative work for outreach and engagement. This included facilitating internal project team meetings, updating and managing the project schedule and drafted reports and updated for the client. She led branding and graphics development in English, Spanish, and Vietnamese, overseeing the stakeholder group communication and meetings, and supported consultant tasks including public meeting needs, meeting promotional strategy, survey development and deployment, and digital promotion through RTA platforms. She provided quality control support, reviewing public facing and client deliverables, and supported technical task review and development as needed.

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).
02/25 - Ongoing	United States Virgin Islands (USVI), Department of Public Works – 2050 Comprehensive Transportation Plan Update: Community Engagement Lead. The US Virgin Islands (USVI) Department of Public Works (DPW) developed their first Comprehensive Transportation Plan. As the first of its kind of Territory, the plan focused on establishing existing conditions across the three islands and the transportation network, infrastructure and agencies. The 2050 Comprehensive Plan's goal was to update the existing plan, evaluating the goals and projects outlined in the 2040 plan, while addressing the major changes across the territory from COVID 19, and two sizable hurricanes. Mikki's role was to develop a communications and engagement strategy to ensure the plan had the influence and voice of the residents across St. Croix, St. John, St. Thomas and Water Island. In addition to community engagement, Mikki also assisted in the stakeholder engagement of various agencies and companies whose work intersect with the transportation network. Mikki's work for this project included building relationships across all islands, facilitating and arranging engagement efforts with local media, community groups, and initiating stakeholder outreach, through stakeholder identification and connection. She created and manages a Facebook project page, provided a project specific webpage framework, and works with the project team to prepare for media opportunities through talking point development, scheduling and arranging media opportunities.
06/25 - Ongoing	City of Kansas City MO, Reconnecting the East Side Plan. The City of Kansas City, Missouri, in partnership with Missouri Department of Transportation, are working through a Planning and Environmental Linkages (PEL) Study, to build a safer and more connected westside community that was altered through the development of US-71 Highway. The project, Reconnecting the East Side is working to find alternative infrastructure to close the gap of the eastside community with the voice of the residents, businesses, and community leaders. Mikki's role on this project is to support communication with stakeholders, residents, and interested parties, through managing the digital Eblast, developing key messaging, email language, and managing the platform used for outreach, Consultation Manager. Her work includes supporting reporting and summary tasks, drafting reports and providing quality support reviewing drafts. She also supports graphics needs and reviewing any public facing graphics and materials such as meeting flyers.
07/24 - 11/25	Capital Area Transit System, Baton Rouge, LA – Empower Baton Rouge Campaign: Areas of Persistent Poverty Study & Transit Center Feasibility Study: Outreach and Communications Support. CATS, the transit system in Baton Rouge Louisiana, hired WSP to execute two planning grants. WSP's Planning team managed and executed the Areas of Persistent Poverty (AoPP) Study and a Transit Center Feasibility Study in a high ridership area with nearby destinations and employment opportunities. These two projects existed publicly, under one campaign, Empower Baton Route. Mikki supported the engagement and communication for both planning studies, ensuring they aligned with the overarching campaign, provided clear information to the public, and included public input in the plans. Her work included drafting and developing key messaging for CATS public facing platforms including social media and websites, developing engagement strategy, staffing engagement opportunities including pop up events and public meetings, survey development, and drafting reports. She worked closely with her creative team to develop materials and graphics including flyers, meeting materials, and worked with the project team to organize and schedule stakeholder meetings.
08/24 - 10/25	Livingston Parish Master Plan and Zoning Code Update, Livingston, LA: Outreach and Communications Lead Livingston Parish, Louisiana hired WSP to lead their zoning code and master plan update. Mikki assisted in projects, developing and executing the stakeholder and community engagement plan. Her work included stakeholder identification, brand development, social media management, survey development, drafting public facing materials, and hosting public meetings to ensure community members were engaged, aware, and involved in the process. Using Social Pinpoint, Mikki managed a project specific webpage, survey, and interactive mapping tool used to provide continuous engagement to the public as well as gather public input and feedback. The project included presentations, reports, and survey data analytics to help guide the project team to understand community input throughout the process.

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Firm employed by	WSP USA Inc.		
Name	Arunava Saha, PE	Years of relevant experience with this employer	3
Title	Bridge Design	Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization	MS / 1995 / Civil Engineering; BS / 1989 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 38334 / LA / 03/31/2024 (also licensed in GA; SC; NC; MS; KY; NV)		
Year registered	2013	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Mr. Saha has more than 30 years of experience in the structural engineering field and holds a master's degree in civil engineering. His structural design experience includes prestressed and post-tensioned concrete, structural steel bridges, seismic design, box culverts, and tieback retaining walls. Arun's bridge design experience includes construction falsework and erection engineering, highly skewed and curved bridges, long-span plate girders, post-tensioned spliced box girders, and trusses. His responsibilities have included preliminary/final/ rehabilitation design, technical design reviews, load rating / BrR, analyses, and management of plan production. He has also developed LOADRATE software using Visual Basic Utilized by GDOT and their consultants to perform load ratings across the state of Georgia.		

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).
07/18 - 12/22	SCDOT, Bridge Inspection and Load Rating, SC: Senior Load rater for the contract, which consists of bridge inspection and determination of the load capacity ratings utilizing BrR and CSI bridge for 2,558 structures including truss, segmental, curved steel girder, movable and significantly retrofitted structures. WSP reviewed the plans, inspection reports, previous load ratings and all other available relevant bridge documents. The load ratings were completed utilizing the information provided by SCDOT and supplemented with information from our field inspections. All load ratings were completed with BrR or CSI Bridge. WSP also utilized drones as an inspection tool to help identify specific areas of bridges where a “hands-. In addition, WSP performed 160 load tests involving instrumenting the bridges with strain gauges and driving known loads across the bridge, to assist SCDOT with advanced load posting avoidance measures. The results of the test were utilized to create corrected effective structural models to increase and remove load postings from bridges across the state. These results were extrapolated out, to not only remove postings on the bridges tested, but also on similar bridges in SCDOT's inventory. WSP efforts saved the State tens of millions of dollars.
02/13 – 08/15	LADOTD, US 90 over LA 318 Design-Build, St. Mary Parish, LA: Bridge task manager whose responsibilities included attendance at all design-related meetings (internal team and LADOTD), resolution of design issues, coordination of project team, QA/QC design calculations and plans, and management of schedule and budget for the bridge task. The US 90 over LA 318 bridges were constructed as twin bridges for east on” inspection is required. This resulted in reduced time required for traffic control and access equipment, providing a significant cost savings to SCDOT and westbound traffic. Each structure was 1887 feet long with seventeen 111-foot spans, with LADOTD precast, prestressed concrete “LG-54” girders. The superstructure consists of a simple span over LA 318, flanked by four two-span continuous units on the east and west sides. Stantec was the prime design consultant and collaborated with the Gilchrist Construction design-build team.

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).
06/16 - Ongoing	GDOT, Engineering Services for Cable-Stayed Structures, GA: In his role as deputy Project Manager, Arun assisted with rehabilitation design of the cable stay dampening system. Arun's leadership extended to two separate rehabilitation design contracts, for the Sidney Lanier Talmadge bridges, executed in 2021. The initial rehabilitation project for the Sidney Lanier Bridge primarily addressed issues related to excessive cable vibration, which included repairing cable stays with breached protective sheathing and corroded strands. Subsequently, a second rehabilitation project was carried out on the Sidney Lanier, entailing the installation of external dampers on all 176 stays. In 2022, Arun assisted with the load rating efforts for both the Sidney Lanier and the Talmadge Signature Cable-Stay Bridges, utilizing a full 3D FEM MIDAS Model of the structures.
02/13 – 08/15	LADOTD, LA 511: Jimmie Davis Bridge Rehabilitation, Bossier Parish, LA: Overall project manager whose responsibilities included maintaining schedule and budget; quality management; coordination with project team, sub-consultants, and client; design, plan productions, and deliverables. This project is located in Bossier Parish and crosses the Red River. The existing bridge is a 16-span structure, totaling approximately 2,823 feet in length. The bridge is on State Route LA 511 and is composed of three main steel truss simple spans: 354 feet, 402.5 feet, and 354 feet long respectively. The truss spans are flanked on both ends by three-span continuous steel deck girders, totaling 610 feet each and spanning the batture at each end. Simple steel girder spans of 70 feet each complete the structure, with five spans at the west end and two spans at the east end of the bridge. Stantec Consulting researched previous repair and inspection documents along with performing in-depth condition verification inspection using rope access method. Based on the findings of the research and site visit, Stantec generated repair strategies and presented the scope of services to LaDOTD. Upon approval, prepared construction plans for rehabilitation and performed load rating based on as-rehabilitated condition. Structural rehabilitation included full deck replacement, structural repair of truss members over 200 locations, design of paint containment system, replacement of nested rocker bearing, design and detailing of jacking scheme of truss spans, pin and hanger replacement.
02/13 – 08/15	LADOTD, Retainer Contract for Bridge Preservation, Statewide, LA: Project manager for this \$6-million on-call contract, which includes a full array of services, such as bridge design, rehabilitation, bridge hydraulics, roadway design, geotechnical investigation, and surveying. LaDOTD selected Stantec Consulting Ltd. to provide bridge task order services throughout the state. To date, the focus of the contract has been to provide design and construction documents for the new widening and rehabilitation of bridges throughout the various districts in Louisiana.
02/13 – 08/15	LADOTD, Retainer Contract for Bridge Load Rating, Statewide, LA: Project manager for this \$3-million contract. LADOTD selected Stantec Consulting Ltd. to provide bridge load rating services throughout the state. Work began in 2014 and was completed in two years. This contract included load rating of more than 600 bridges. Bridge types included concrete, prestressed concrete, steel, and truss bridges, with lengths ranging from 100 feet to 29,000 feet.
02/13 – 08/15	LADOTD, Bridge Scour Project, Statewide, LA: Project manager of this approximate \$1-million contract. The project involves analysis of scour critical bridges throughout the state, including finite element analysis using data gathered from field inspection and providing recommendation reports.

16. STAFF EXPERIENCE:

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Firm employed by	WSP USA Inc.		
Name	Trevor Johnson, PE	Years of relevant experience with this employer	22
Title	Bridge Design	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization	BS / 2002 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 0045518 / LA / 09/30/2027; 65624 / FL / 02/28/2027		
Year registered	2021	Discipline	Structural Engineering
Contract role(s) / brief description of responsibilities	 Mr. Johnson is a structural engineer and project manager responsible for leading design, analysis, inspection, plans production, and post-design efforts for new and rehabilitation of movable (bascule, vertical lift, and swing) bridges, truss bridges, steel girder (straight and curved) bridges, and pre-stressed and post tensioned beam bridges. He also leads bridge inspections on rehabilitation projects to evaluate required repairs and determine appropriate repair methods.		

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).
02/25 - Ongoing	LADOTD Contract No. 4400021514 (Contract 2: Movable Bridges) February 2023, NTP: Project manager for this statewide effort to inspect, evaluate, and rehabilitate five swing span movable bridges—Bayou Tigre (LA 330), St. Martinville (LA 96), Pierre Pass (LA 70), Kelso (LA 27), and Little Prairie (LA 82). The program encompasses comprehensive document reviews; in depth NBIS inspections; coordinated structural, mechanical, and electrical assessments; coatings evaluations; and LRFR load ratings using AASHTOWare BrR/BrD. Development of Scope of Work proposals and definitive rehabilitation reports that identify prioritized, cost effective repair strategies aimed at extending service life while minimizing closures. Includes managing the preparation of multi disciplinary construction documents—structural, mechanical, electrical, architectural, and geotechnical—along with permitting support and post design engineering services such as construction phase technical review and follow up inspections. All deliverables are produced under LADOTD QA/QC requirements and executed within ProjectWise/AssetWise digital environments in full compliance with AASHTO, FHWA, OSHA, and NEC standards.
04/21 - Ongoing	Continuing Services Design for Movable and Complex Bridge Repairs, Florida Department of Transportation, District Two, FL, \$5 million: Project manager for this seven-year task work order based contract that includes various repairs, inspections, and rehabilitation projects such movable bridge repairs, truss bridge repairs, segmental bridge repairs, conventional bridge repairs, painting, fender replacements, pile jackets, piling replacement, cathodic protection system, saddle bent installation, bridge deck replacement, joint repairs, beam replacements, scour countermeasures, peer reviews, and load ratings.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
02/21 - Ongoing	Bridge Engineering Design Continuing Services, Florida Department of Transportation, District One, FL, \$5 million: Project manager for this five-year task work order based contract that includes various repairs, inspections, and rehabilitation projects such as movable bridge repairs, post tension bridge repairs, conventional bridge repairs, emergency response, engineering assessments, life cycle cost analysis, painting, fender replacements, pile jackets, piling replacement, cathodic protection system, bridge deck replacement, joint repairs, beam replacements, scour countermeasures, peer reviews, and load ratings.
02/21 - Ongoing	SR-736/Davie Blvd. Bridge (BR# 860038), FDOT District Four: Engineer of Record for a two-phase bascule bridge rehabilitation spanning structural, mechanical, and electrical disciplines. Delivered structural packages for bascule steel retrofits, approach concrete repairs, replacement of jaw locks with span locks. Coordinated with mechanical reliability improvements to bascule machinery including drive components, brakes, and locks; modernized electrical systems encompassing control and power distribution, submarine cable boxes, conduits, and panels. Produced quantities and specifications, organized temporary traffic control detours, provided formal responses review comments, and coordinated with the U.S. Coast Guard on in-water and operating windows, achieving constructable, maintainable solutions with minimized navigation and traffic impacts.
10/23 - Ongoing	NW 22nd Avenue Movable Bridge (Bridge No. 874383), Miami-Dade DTPW: Engineer of Record for emergency rehabilitation design and construction support for a double-leaf bascule bridge, delivering signed/sealed live-load shoe replacement and structural steel repair packages; coordinated biweekly progress and site visits with DTPW and CEI to refine scope, pay items, and sequencing; incorporated field findings of a 38-inch crack at the web-flange interface requiring immediate repairs to target high-risk components. Addressed, RFIs, shop-drawing reviews, and coating replacement oversight; emphasized reliability, capacity restoration, and minimized navigational/traffic closures. Current construction cost \$2.8M.
10/12 - 05/21	Multiple District Wide Bridge Engineering Design/CEI Support Services, Florida Department of Transportation, District One and Two, Florida, each \$1.5 million: Project manager for this five-year task work order based contract that includes various repairs, inspections, and rehabilitation projects such as movable bridge repairs and strengthening to current load rating requirements and mechanical/electrical upgrades, post tension bridge repairs, conventional bridge repairs, emergency response, engineering assessments, painting, fender repairs, pile jackets, cathodic protection system repairs, bridge span replacement, joint repairs, concrete spall and crack repairs, and load ratings.
07/09 - 07/16	Main Street Lift Bridge Structural Enhancements, Jacksonville, FL: Engineer of record for structural enhancement to Main Street Bridge, a 1,780-foot landmark truss bridge with a 365-foot span drive vertical lift span. The work includes sidewalk replacement and addition of barrier protection system to the steel truss spans and structural repairs of the trusses, towers, floorbeams, stringers, rocker nest bearing replacements, and spot painting. lead inspections to document deterioration and condition of the bridge and to evaluate required repairs and establish structural repair methods. Work also included electrical rehabilitation and droop cable replacement. Additional engineering support included a report for the main sheave trunnion replacement to roller bearings, fit for service analysis (remaining life) of trunnion cracks, cost estimate, and construction time estimates. Report included counterweight wire rope replacement and attachment study to allow individual adjustment. Traffic resistance barrier study for making improvements to the existing and replacement options.

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Firm employed by	WSP USA Inc.		
Name	Joseph (Todd) Mitchell, PE	Years of relevant experience with this employer	25
Title	Bridge Design	Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization	BS / 1996 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 60188 / FL / 02/28/2027; 0042135 / LA / 03/31/2026		
Year registered	2017	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Mr. Mitchell has diversified engineering experience from bridges to buildings. As a senior structural engineer with WSP, he has experience in bridge and building design, structural inspections, and plan preparation for a variety of projects. Todd's work has involved preliminary and final design of a multitude of structure types, several of which were design/build projects. These include continuous steel girder bridges, precast I-beam/box-beam bridges, slab bridges, conventional reinforced concrete structures, and structural steel frame structures.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
02/23 - Ongoing	FDOT D5 2021-Ongoing Movable Bridge Continuing Services Contract, Districtwide, FL: Project Manager and Structures Lead for this district-wide on-call bridge engineering services contract. This task order-based contract includes work program support; structural, geotechnical, survey, electrical and mechanical engineering design; maintenance of traffic plans; bridge inspection; design studies; load ratings; and nondestructive testing. Projects include movable bridge rehabilitation and evaluations, preparation of assessment reports and assist the Department in future programming for future replacements or rehabilitations which includes preparation of Life Cycle costs analysis for movable bridge steel repairs and mechanical/electrical upgrades and long-term maintenance.
12/20 - 12/25	FDOT 2021-Ongoing Statewide Structures Review, FL: Project manager and Structures Lead for the Central Office, Category 2 Structures Review Contract. WSP is responsible for a wide variety of assignments involving post-tensioned structures, movable bridges, and complex steel bridges. In addition, the firm reviewed Florida Department of Transportation specifications, sections of the structure's manual, and detailing manual, and developed precast bridge element details which were incorporated into the structure's manual. WSP was responsible for development for the training manual, training video, and leading workshops for the Department for Open Bridge Modeler. WSP also participated in tunneling workshops, light rail analysis, light rail manual, and Ultra High-Performance Concrete on FIB and sheet piling usage. This statewide task-based contract for the design and review of structures statewide includes signature bridges, rail bridges, segmental concrete bridges, movable bridges, and arch bridges.
10/20 - Ongoing	FDOT D2 District Wide Movable and Complex Bridge Repairs Contract. As Deputy Project Manager, Todd supported the contract through QC. This task order-based contract includes work program support; structural, geotechnical, survey, corrosion, electrical and mechanical engineering design; maintenance of traffic plans; bridge inspection; design studies; load ratings; and scour analysis. This project also included painting of truss and pedestrian bridges, finger joint replacements, sonovoid PT bar investigative study and sonovoid group rehabilitations.

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).
03/17 - 05/18	PORT NOLA, Almonaster Bridge 2017-2018: Almonaster Avenue Railroad Bridge Fender Assessment: Structural EOR for which Todd performed field assessment for the Almonaster Avenue Railroad Bridge along the Inner Harbor Navigation Canal, approximately two miles South of Lake Pontchartrain. WSP provided an assessment of the original 1966 concrete dolphins/timber fender as a result of an allision of a tugboat transporting a disabled paddle river boat. The assessment further included a construction estimate.
03/21 - 12/25	FDOT D1 Cortez Bridge Replacement. Project manager and Structures EOR. WSP is responsible for the Category 2, center span navigational unit for the nearly 3000 ft long, 19 span bridge. WSP developed the vessel collision and worked closely with the designer responsible for the remaining elements to ensure load distribution across the elements. The bridge utilized simply supported FIB beams with continuous diagrams for the center unit supported by phase constructed arced piers resting on 30” piles. WSP worked closely with the Bridge Aesthetic Committee to develop nearly 10 different 3D bridge concept bridge renderings, each with multiple lighting scenarios for the \$2.5M Aesthetics’ budget.
06/14 - 12/16	South Florida Regional Transportation Authority. EOR for the replacement of the historical 1926 existing Scherzer rolling lift bridge. To facilitate two new track lines, the project requires the new bridge construction to utilize phased construction. The twin, three-span bridges consist of prestressed Florida I-beams for the approach spans and a steel thru-girder for the main span. Cast-in-place concrete ballasted deck rests on drilled shaft bents.

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Firm employed by	WSP USA Inc.		
Name	Mark Shlyakov, PE	Years of relevant experience with this employer	3
Title	Bridge Design	Years of relevant experience with other employer(s)	46
Degree(s) / Years / Specialization	MS / 1979 / Civil Engineering; Certificate Program / 1997 / Structural Engineering		
Active registration number / state / expiration date	Professional Engineer: 38927 / LA / 09/30/2026; 123009 / TX / 03/31/2026 (also licensed in FL; GA; MA; MD; NJ; and PA)		
Year registered	2014	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Mark Shlyakov has 46 years of experience in the design, inspection, and rehabilitation of steel and concrete bridges including horizontally curved composite steel structures, prestressed concrete, post-tensioned concrete segmental, cable-stayed, arch bridges, deep foundations, long-span trusses, retaining walls, and culverts. He previously served as a project manager and senior structural engineer on numerous bridge projects and has performed seismic evaluation, design and retrofit of many bridges throughout Pennsylvania, Tennessee, Florida, and other states. Mark has extensive experience in the analysis and plans preparation of major bridge structures.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
06/23 - 11/23	I-85 over Oconee River, GDOT, Jackson County, GA: Designed stage construction of the total replacement of the existing five-span horizontally curved twin bridge, built in 1962. The new three-span bridge was designed as a two side by side concrete bridges connected to each other by concrete deck, median beam, end and edge diaphragms. Mark provided all calculations of the combined widened structure using staged non-linear Midas Civil 3-D analysis. He also designed a strengthening of the existing piers during stage construction.
04/22 - 09/22	I-85 over Ridgeway Road, GDOT, Jackson County, GA: Designed stage construction of the total replacement of the existing three-span horizontally curved twin bridge, built in 1962. The single-span bridge was designed as a two side by side concrete bridges connected to each other by concrete deck, median beam, end and edge diaphragms. Mark provided all calculations of the combined widened structure using staged non-linear Midas Civil 3-D analysis. He also designed a strengthening of the existing piers during stage construction.
01/13 - 11/15	Jimmie Davis Bridge over Red River, District 4, LaDOTD, and Development, Bossier City, LA: Senior structural engineer for this 16 span, 2821-foot long bridge that included three central through trusses (354 feet + 403 feet + 354 feet) and multiple 200 feet cantilever plate girders spans. Mark developed conceptual and final structural steel rehabilitation, truss jacking schemes, and conversion of expansion bearings multiple roller system with hybrid disk bearings. He designed a special strand-jacking system and structural analysis of the trusses and approach spans. In addition, he conducted 3D staged modeling with CSiBridge software.

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).
02/16 - 03/19	State Highway 288 and Sam Houston Tollway, Bridges BW8-F and BW8-H, TxDOT, Houston, TX: Lead bridge designer and engineer of record of two major curved bridges. This design and build project included horizontally curved structural steel spans ranging from 260-feet to 314-feet along with up to 150-foot-long concrete beam spans. Mark designed a wide variety of substructure types: hammerhead with precast and cast-in-place caps, long-span post-tensioned straddle bents, post-tensioned eccentric bents, integral bents with post-tensioned parabolic tendons. The bents with inverted-T caps and straddles were used in the locations with tight vertical clearance. He conducted a 3D staging analysis for the design of steel curved girders with integral and conventional connections to the substructure.
06/23 - 12/23	I-85 SB to I-20 EB ramp bridge, GDOT, Dekalb County, GA: Designed steel horizontally curved spans of this 2611- feet long structure. Mark provided MDX analysis of 278' + 205' steel spans.
11/23 - 03/24	SR 9 over Azalia Road, GDOT, Roswell Historic Gateway, GA: Designed 50' long bridge on the sharp skew. Superstructure includes partially splayed girders on short radius horizontal curve. Designed both wall abutments.
09/17 - 08/18	Hal Adams Bridge, FDOT District 2-0, Lafayette County, FL: Performed review of rating analysis of this suspension bridge. Reviewed CSi-Bridge FEA models, developed by WSP and Atkins. Reviewed incremental pin failure analysis.
11/21 - 05/22	Ramp NE (I-275 SB to I-4 EB) Flyover Widening, District 7-0 FDOT, Hillsborough County, FL: Designed staged widening of the existing flyover bridge. Developed sliding connection between existing girder and a new curved girder. Used Midas Civil for staged widening analysis.
02/24 - 07/24	I-75 Widening, District 7-0, FDOT, Hillsborough County, FL: Designed widening of I-75 over SR301. Reviewed design of I-75 over Harney Road.
03/22 - 05/23	U2C Phase 2 Skyway Conversion, Jacksonville Transportation Authority, FL: Developed conceptual approach and details to convert the existing monorail bridges in autonomous vehicle bridges.

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Firm employed by	WSP USA Inc.		
Name	Amy Robards, PE, CBI	Years of relevant experience with this employer	1
Title	Bridge Inspector	Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization	BS / 2012 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 41718 / LA / 09/30/2027; 154565 / TX / 09/30/2026; also licensed in Maryland Certified Bridge Inspector: FHWA-NHI-130055 (2018); FHWA-NHI-130053 (2022); FHWA-NHI-130078 (2022); MDTA TCS (2026)		
Year registered	2017	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Amy Robards has 13 years of experience with National Bridge Inspection Standards (NBIS) bridge inspections. Key experience includes directly supervising all field inspection personnel to completion of assignments, acting as Inspection Team Leader of projects, and conducting all types of inspections. She also has experience reviewing clientspecific operational procedures to ensure compliance and preliminary structural analysis. Amy has implemented the Specifications for National Bridge Inventory (SNBI) into inspections, a new requirement by the Federal Highway Administration (FHWA). Within the last year, Amy specialized in routine bridge inspections, specifically culverts. She also assisted in overhead sign inspections and updating company-specific manuals. Amy also has over five years of experience in Construction, Engineering, and Inspection (CE&I). During this time, Amy assisted the engineer of record, working as the Resident Engineer on multiple rehabilitation and replacement bridge projects. Projects include Company Canal Bridge Replacement and Causeway Safety Bay Additions. Amy also acted as the LADOTD Structural Concrete Inspector and client-contact during the CE&I work.		

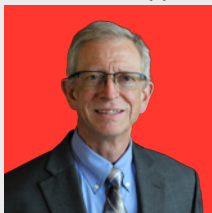
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
11/20 – 08/24	LA 24 & LA 316 Company Canal Bridge Replacement, Louisiana DOT, Bourg, LA: As Resident Engineer, Amy was responsible for leading the construction engineering and inspection services required during the lift bridge replacement project. The construction activities included communication with LADOTD, bridge removal, asphalt paving, concrete placements, preparation of daily reports, overseeing structural, electrical, and mechanical installation, leading construction progress meetings and completing monthly estimates.
04/23 – 08/24	LADOTD Bridge Inspection Services, Louisiana DOT, Shreveport, Lake Charles, and Krotz Springs, LA: As Structural Inspector, Amy was responsible for leading the inspection services team in a routine and fracture-critical inspection of multiple complex bridges in Louisiana: Red River (Jimmie Davis), Red River’s (Miller’s Bluff), Calcasieu River (West Fork), and US 190 Krotz Springs. The project’s role included an inspection Team Leader, conducting the inspection, preparing reports, developing a traffic control plan and managing subconsultants. The structure was accessed using under-bridge inspection vehicles and manlifts. Findings and recommendations were inputted into the owner’s asset management system.

STAFF EXPERIENCE

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
9/22 – 08/24	H.013897.6 I-10 & I-12 College Drive Flyover Ramp, Louisiana DOT, Baton Rouge, LA: As Structural Inspector, Amy provided Quality Assurance to the contractor, oversaw concrete placement and asphalt paving, and assisted in construction progress meetings.
09/24 - 12/25	BCC Engineering, Contract No. 88-2IDP5053 WA 6, 7, and 8, Odessa, San Antonio, and Yoakum Districts, TX: While with VRX, Amy worked as a subcontractor to BCC Engineering. She completed the routine inspection and reports of multiple culverts in the Texas Odessa, San Antonio, and Yoakum Districts.
09/24 – 01/25	Northgate, DFW Connector CMA 2024-2028, Dallas, TX: Inspection of 75 structures, bridges and culverts, on DFW connector pathways. Amy acted as team lead during this inspection.
01/25 - 12/25	NTTA, GEC 05464, TX: Initial inspection of NTTA Gleneagles, NTTA Customer Service Center Bridge. Amy assisted the team leader and signed/sealed the final report.
09/24 – 12/24	TranSystem NSTM Inspection, TX: Nonredundant steel tension member (NSTM) structure 17-198-1210-02-009. One day inspection completed utilizing an under bridge inspection vehicle. Amy completed the inspection and signed/sealed the NSTM report for TXDOT.
04/23 – 03/24	Box Girder Inspections, Mississippi DOT, Meridian, MS: As Structural Inspector, Amy was responsible for leading the inspection services team in a routine inspection of two box girder bridges. Scope included identifying various elements to be inspected, developing the inspection scope, conducting the inspection, preparing reports, developing a traffic control plan, working with subconsultants, and completing the complex bridge inspection.
10/23 - 10/23	MDSHA Movable On-Call, Maryland DOT, Potomac River, MD: As Structural Inspector, Amy assisted in routine and critical fracture inspections of the US 340 bridge over the Potomac River. The structure is a fourteen-span bridge carrying US340 between Virginia and Maryland. Technical access, MDTA TCS, and MDTA bridge inspection certifications were utilized during the inspection. The structure was accessed using technical access. Findings and recommendations were inputted into the owner's asset management system.
10/18 – 08/21	Lake Pontchartrain Causeway Safety Bay Improvements CE&I, Greater New Orleans Expressway Commission, Jefferson & St. Tammany Parishes, LA: As Structural Inspector, Amy provided construction engineering and inspection services required during the safety bay improvement project. The scope of work included management of the fabrication of pre-stressed piles, girders, caps, and decks as well as all other construction activities including field monitoring, documentation, preparation of daily reports, participation in construction progress meetings, and construction close-out. Amy worked as a essential worker during this time.
10/19 – 02/23	Annual Inspection of Almonaster Railroad Bascule Bridge Over the Industrial Canal, Port of New Orleans, New Orleans, LA: As Structural Inspector, Amy was responsible for the annual inspection of the Almonaster Avenue Railroad Bascule Bridge crossing the IHNC in New Orleans. The inspection included a structural inspection of the fracture critical steel, primary and secondary steel members, managing the an electrical inspection of the electrical systems and controls, and managing the an inspection of the mechanical systems and machinery.
10/19 – 01/20	Lapalco Boulevard Overpass of Bayou Segnette, Jefferson Parish DPW, Westwego, LA: As Structural Inspector, Amy assisted designers during for rehabilitation/repair of this 3,000-foot-high rise, pre-stressed concrete girder bridge which is supported by reinforced concrete pier/column systems, resting on pile-supported reinforced concrete footings. Scope of services included identifying various elements to be inspected, developing the inspection scope, conducting the inspection, reviewing bridge rating, preparing reports, and developing a traffic control plan.

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Firm employed by	WSP USA Inc.		
Name	Darwin Desen, PE	Years of relevant experience with this employer	5
Title	Railroad Coordination	Years of relevant experience with other employer(s)	32
Degree(s) / Years / Specialization	BE / 1988 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 79720 / TX / 06/30/2026		
Year registered	1994	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Darwin Desen has over 35 years of experience in transportation planning, design, and construction delivery for freight rail and industrial rail projects. His experience includes providing services for both public and private clients working on and/or managing a variety of projects across the country. He has participated in all phases of design from planning and alignment studies, conceptual design through final design and development of bid and procurement documents for construction. Darwin has substantial experience working with multiple state and federal agencies including the Federal Transit Administration (FTA), Federal Railroad Administration (FRA), Federal Highway Administration (FHWA), and the Surface Transportation Board (STB) related to the planning and design development of rail infrastructure 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).
10/20 - 10/23	DART Cotton Belt Silver Line Regional Rail Design-Build and PMOR, Dallas, TX: Program director managed DART's PMOR team and provided delivery and contract administration services. Darwin oversaw the design-build contractor, vehicle procurement, and operations and maintenance contracts. He also served as a lead negotiator and resolved conflicts between DART and tenant railroads concerning trackage rights agreements with UPRR, FWR, BNSF, DGNO, and KCS, where DART is taking over the authority of the railroad as a joint use operation. WSP is providing project management services for the Silver Line, also known as the Cotton Belt Rail Line, which will link seven cities in north Texas, including Grapevine, Coppell, Dallas, Carrollton, Addison, Richardson, and Plano, with Dallas-Fort Worth International Airport. The firm is responsible for all professional, technical, managerial, and administrative services as required. The project scope includes overall design reviews; internal and external coordination; construction management oversight; and cost, quality, and schedule control. The 26-mile-long project aims to develop a joint-use passenger and freight rail corridor from the Dallas-Fort Worth International Airport through the northern portion of the DART service area ending at Shiloh Road in Plano. The corridor will also host the UPRR, FWR, BNSF, DGNO, and KCS freight railroads as operating tenant railroads. The project intends to improve mobility, accessibility, and system linkages to major employment zones, population, and activity centers.
06/14 - 11/17	Lone Star Regional Rail Project, Georgetown to San Antonio, TX: Darwin served as the Program Manager and primary UPRR point of contact to evaluate implementation of regional passenger rail connecting the metropolitan areas of Georgetown, Austin, San Marcus, New Braunfels, and San Antonio using UPRR mainline along the I-35 corridor. In total, the project estimated a construction value of over \$4.5B. The study evaluated 245 miles of rail corridors including approximately 120 miles of existing UPRR right-of-way and track alignment from Georgetown to San Antonio, evaluation of approximately 80 miles of new greenfield freight only alignment from Taylor to Seguin, and evaluation of 45 miles of existing UPRR right-of-way and track alignment from Seguin to San Antonio.

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).
03/01 - 09/02	Norfolk Southern Railroad Cloggsville Bypass Mainline Relocation, Cleveland, OH: Project manager provided final design and construction management services for a 7.5-mile double-track mainline relocation project through an industrial area in Cleveland. The project included the design and construction of a new 130-foot-long double track, ballast deck, and plate girder bridge; widening of an existing 62-foot-long ballast deck and deck plate birder bridge; extension of an existing 26-foot by 12-foot concrete arch culvert and relocation; and protection of multiple utilities throughout the corridor. The project team located an existing 16-foot diameter brick arch sanitary and storm combination sewer that was more than 100 years old by using ground penetrating radar. They also determined the extent of the pipe haunches and falsework left in place during the original construction.
06/02 - 09/03	Norfolk Southern Railroad Mainline Relocation, Erie, PA: Project manager provided final design and construction management services for a 5.5-mile double-track mainline relocation project through an industrial area in Erie. The project also included the design and construction of a three-span, 250-foot-long, single-track, ballast-deck, through-plate girder bridge and the rehab and modification of nine existing railroad bridges to accommodate the additional trackage and relocation of multiple utilities throughout the corridor.

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Firm employed by	WSP USA Inc.		
Name	Lisa Fruge, PE	Years of relevant experience with this employer	7
Title	Roadway Designer	Years of relevant experience with other employer(s)	15
Degree(s) / Years / Specialization	BS / 2003 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 33281 / LA / 09/30/2027		
Year registered	2007	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Mrs. Fruge is a transportation supervising engineer and project manager whose expertise includes rural highway design, urban road design, and design-build delivery. She managed the design of three roundabouts on the Dillard Street Reconstruction project, various Superstop site designs for LYNX, a trail overpass feasibility task order for FDOT D7, and road reconstruction for the Town of Esto, Florida. She also served on the management team for two significant design build turbine interchange projects in North Carolina. Previously serving as a project manager in Louisiana, Lisa oversaw the development of construction plans, calculations, and specifications for various clients such as Louisiana Department of Transportation and Development, St. Tammany Parish, the City of New Orleans, and the Greater New Orleans Expressway Commission.		

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).
07/21 – 08/25	Interstate 75-Martin Luther King Jr. (MLK) Blvd. Diverging Diamond Interchange, Hillsborough County, FL: Served as the deputy design project manager for this design-build project on which WSP served as lead designer. She coordinated with the contractor, the Florida Department of Transportation, and her team on weekly design meetings, biweekly client updates, and internal discipline specific meetings to progress the project towards successful delivery. She served as the Engineer of Record for the Typical Sections, Design Variations, and Pavement Design packages, and oversaw change control to monitor the project budget. She assisted the project manager in managing the overall schedule as well as permitting efforts to maintain the critical path. The project scope included the widening of Interstate 75 to support the design of a new diverging diamond interchange at MLK Blvd. and all associated ramps. The milling/ resurfacing and reconstruction along MLK Blvd. extended from Queen Palm Drive to Williams Road. A collector-distributor road was designed to carry traffic from MLK Blvd. directly to Interstate 4 paralleling Interstate 75.
03/24 - 11/25	S.R. 405 Corridor Study, Brevard County, FL: Mrs. Fruge served as Roadway design lead on a corridor study for S.R. 405 from west of S.R. 50 to east of U.S. 1, approximately 5.4 miles within the City of Titusville and Brevard County. The Study determined the need for, and potential impacts of, widening the road from two to four lanes. Surrounding land use, future growth, and potential impacts to the study area were analyzed to determine the location and conceptual design of preferred roadway and mobility improvements. Mrs. Fruge assisted in presenting the findings to the public in two separate Public Information Meetings over the course of the study.

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).
04/23 – 06/25	I-4 at Sand Lake Interchange Improvements Design Build, FDOT District Five, Orange County, FL: Roadway Engineer of Record for WSP as a sub-consultant for the improvements of the managed lanes from Sand Lake Road to the southern project limits of the project. She developed typical sections, set highway geometry, calculated superelevation, calculated guardrail limits, and determined cross slope correction within the milled and resurfaced limits. The project included widening of the I-4 bridge over Central Florida Parkway, ITS improvements to the entire project, and the extension of the managed lanes in the median of I-4 for approximately three miles.
02/22 – 11/23	SR 501 (Clearlake Road) from SR 520 (King Road) to SR 524 (Industry Road) Brevard County, FL: Roadway QC Engineer on this 2.2-mile complete streets project on SR 501 between SR 520 and Michigan Avenue. Performed Quality Control for the roadway set of plans which consisted of a four-lane undivided urban typical section with a two-way left turn lane and sidewalks on each side of the road. The project installed raised medians, mid-block pedestrian crossings, bike lanes, pedestrian refuges at bus stops, and a new curb line to provide traffic calming by reducing lane widths and introducing curvature to achieve a 35 mph target speed.
03/21 – 04/24	Tiny Road Roadway Conceptual Analysis, Orange County, Florida: Deputy project manager and engineering lead. Responsible for developing various typical sections, alignment alternatives, and intersection configurations to improve the capacity and geometric deficiencies of this two-mile suburban corridor in Winter Garden. The preferred alternative was determined through the analysis of impacts on right of way, parks and recreational facilities, schools, the environment, utilities, and cost, among other factors. Public engagement and public agency coordination was also critical in determining a solution that is sensitive to the needs of the community and supports modes of travel for all users.
09/20 – 06/24	Bonnabel Boulevard Roadway Improvements (Metairie Rd. to I-10), Jefferson, LA: The project, which is a Federal aid program with joint FHWA and Jefferson Parish funding, will provide a 3” mill and overlay of the roadway surface, full depth concrete patching and curb replacement. As Quality Control Reviewer, Lisa reviewed preliminary and final drawings to ensure adherence to LADOTD standards, AASHTO, and Jefferson Parish Design Guidelines. Client: Jefferson Parish.
08/17 - 06/18	I-10 Design/Build (Highland Rd - LA73) East Baton Rouge Parish/Ascension Parish, LA: This project added a lane to widen the interstate from Highland Road to LA73 and included the replacement of the steel girder bridge over Highland Road, the widening of the slab span concrete bridge over Manchac Bayou, and the jacking and repair of the prestressed concrete girder Bluff Road bridge over I-10. As part of the Owner’s Representative/Oversight Team, Mrs. Fruge performed design and plan reviews for this interstate widening project for both the bridge and roadway plans at the milestone submittals and also performed audits of the design team’s quality control. Construction cost: \$72 million. LADOTD State Project No. H.009250

STAFF EXPERIENCE

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Firm employed by	WSP USA Inc.		
Name	Ossama Ramadan, PhD, PE, PTOE, RSP2I, ENV SP	Years of relevant experience with this employer	4
Title	Traffic Engineer	Years of relevant experience with other employer(s)	25
Degree(s) / Years / Specialization	PhD / 2016 / Civil Engineering; MS / 2003 / Civil Engineering; BS / 1999 / Construction Engineering		
Active registration number / state / expiration date	Professional Engineer: 43893 / LA / 03/31/2026; 132058 / TX / 09/30/2026; also licensed PE in AL, FL, GA, KY, MN, NV; PMP – Project Management Professional / 2181329; RSP2I – Road Safety Professional, Level 2, Infrastructure / 82; PTOE – Professional Traffic Operations Engineer / 4774; PTP – Professional Transportation Planner / 907; ENV SP – Envision Sustainability Professional / 6506		
Year registered	2018	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Dr. Ossama Ramadan is a traffic planning director with more than 20 years of experience in traffic engineering and transportation planning. He functions as a program and project manager, engineer of record, and subject matter expert. Dr. Ramadan's novel approaches for congestion and safety analyses were presented at the ASCE 2021 and 2023 International Conferences on Transportation and Development. These approaches allowed the continuation of traffic engineering studies for TxDOT El Paso and Houston Districts throughout the COVID-19 pandemic, the development of the Houston District's Eight-County DTA mesoscopic model, and the development of TxDOT El Paso District's first four-year safety plan, which included 83 projects all from planning through conceptual design. In addition, Dr. Ramadan leads the Texas Technical Excellence Center for Advanced Traffic Analysis, Modeling, and Simulation (TX Advanced Traffic AMS TEC). He is nationally recognized through peer-reviewed publications, conference presentations, and active participation in TRB, ITE, and ASCE technical committees. Dr. Ramadan is the Secretary and Incoming Chair of the ITE Data-Driven Safety Analysis Standing Committee. In addition, he is an Associate Member of the ASCE Transportation Safety Committee. Meets MPR #10		

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).
06/25 - Ongoing	H-GAC Safety Action Plan, Houston-Galveston Area Council, Houston, TX: Managing and supervising an eight-county traffic safety analysis study to identify needed safety improvements within the service area of Metropolitan Transit Authority of Harris County and the Gulf Coast Railroad District, including crash diagnosis, countermeasure selection, developing project concepts, and prioritization of projects.
07/22 - 04/25	El Paso Districtwide Traffic Engineering and Planning Studies (Contract № 24-8SDP5011, Work Authorization № 4), TxDOT El Paso District, El Paso, TX: Work authorization project manager and EOR in charge of traffic engineering and planning studies for El Paso District and local government corridors, including FM 1110 widening and extension, Gateway Blvd at Vista De Oro Dr intersection improvements, IH-10 at Eastlake Blvd operational and safety improvements, Montana Ave traffic study, and SL 375 and FM 76 safety study.
03/22 - 07/22	Intelligent Transportation Systems Technical Support Services (Contract № 693JJ321D000022), Intelligent Transportation Systems Joint Program Office: Principal investigator and project manager for Complete Trips and ITS4US studies.



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Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/21 - 02/22	MESOSCOPIC MODEL: FM 2271 Extension Regional Feasibility Study, TxDOT TPP and Waco District, TX: Project technical lead and engineer-of-record for a regional feasibility study for the extension of FM 2271 in Bell County, Texas. Led the development of a mesoscopic traffic model in TransModeler based on a regional travel demand model in TransCAD to guide the identification of reasonable extension alternatives, conduct preliminary traffic analysis, compare alternatives. Reference: Steven Linhart, Steve.Linhart2@txdot.gov, 512-730-9502
07/19 - 02/22	MESOSCOPIC MODEL: Houston Urban Core Regional Planning Study, TxDOT Houston District, TX: Project technical lead and engineer-of-record for a regional planning study. Led the development, analysis, and reporting of a multimodal mesoscopic traffic simulation model in DynusT/DynuStudio for the 8-county Houston metropolitan area to determine the performance and resiliency of the transportation network within the Houston urban core. Reference: Brenda Bustillos, Brenda.Bustillos@txdot.gov
03/19 - 12/19	MESOSCOPIC MODEL: US 67 Corridor Master Plan, TxDOT El Paso District, TX: Traffic operational and safety analysis SME. Led the development, calibration, and validation of a traffic mesoscopic model in DynusT/DynuStudio in support of a Corridor Master Plan to determine needed improvements for a 142-mile-long section of US 67 between the IH-10 intersection near Fort Stockton and the Presidio International Bridge. Reference: Rebecca Reyes, Rebecca.Reyes@txdot.gov
01/19 - 02/21	Horizon Boulevard (FM 1281) Corridor Study, TxDOT El Paso District, El Paso County, TX: Project technical lead and engineer-of-record for a corridor study to determine needed operational and safety improvements for a 9.42-mile section of FM 1281 (Horizon Boulevard) between SH 20 (Alameda Avenue) and Ascension Street. Led and supervised data collection, existing conditions documentation, identification of needs, development of improvement alternatives, comparison of alternatives, corridor ITS plan, emergency vehicle preemption implementation plan, signal warrant analysis, intersection control evaluation, and operational analysis.
08/18 - 01/19	MESOSCOPIC MODEL: Mitigating Network Congestion by Integrating Transportation Network Companies and Urban Transit, Confidential Client: Project technical lead for developing a sub-regional mesoscopic traffic simulation model in MATSim to investigate the feasibility and system-wide impacts of integrating Transportation Network Companies (TNCs) as first-/last-mile feeder system into urban transit for a metropolitan area. Reference: see note below*
03/17 - 01/19	MESOSCOPIC MODEL: Technology Influence on Travel Demand and Behaviors, Confidential Client: Project technical lead for the development of a regional mesoscopic traffic simulation model in MATSim to investigate the impacts of Transportation Network Companies (TNCs) on urban traffic congestion and single occupancy vehicle use. Reference: see note below*
02/16 - 06/17	Evaluation of Traffic Control Options in Work Zones, USDOT and ALDOT, Birmingham, AL: Project technical lead developed a microscopic simulation model in CORSIM for a 14-mile segment on I-65 in Birmingham, Alabama to investigate the mobility impacts of four novel temporary traffic control strategies for work zones under three to two lane short-term lane closures
01/13 - 02/16	Optimizing Emergency Medical Services (EMS) Through the Use of Intelligent Transportation Systems (ITS) Technologies, USDOT and ALDOT, Birmingham, AL: Project technical leader developed a microscopic simulation model using CORSIM for US 280 in Birmingham, Alabama to evaluate the operational impacts of emergency vehicle signal preemption technology and analyzed simulation results to estimate the mobility impacts of signal preemption technology on EMS operations. Work included developing signal phasing and timing plans, and conceptual layouts for proposed signal upgrades.

***Reference note:** The two confidential projects shown above occurred with a previous employer, and were subject to an NDA due to the use of personally identifiable information used for population synthesis. Therefore, Ossama cannot disclose a reference for these two projects.

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Firm employed by	WSP USA Inc.		
Name	Charlie Wildman, PE, PG	Years of relevant experience with this employer	6
Title	Geotechnical Engineer	Years of relevant experience with other employer(s)	9
Degree(s) / Years / Specialization	MS / 2018 / Geotechnical Engineering; BS / 2009 / Geological Engineering		
Active registration number / state / expiration date	Professional Engineer: 42928 / LA / 03/31/2027		
Year registered	2018	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Mr. Wildman is a geological and geotechnical engineer and currently serves as a Lead Consultant in these disciplines. His professional experience includes extensive work in dams, levees, coastal and riverine protection, transportation, water conveyance and distribution, green infrastructure, wind energy, industrial design, military construction, and agriculture. Mr. Wildman's early career was predominantly spent in the field completing geological and geotechnical site characterization including rock and soil logging, completing field testing, installing geotechnical instruments, and coordinating and managing drilling and construction subcontractors. Over the past decade, Mr. Wildman has specialized in the design, construction, and rehabilitation of hydraulic structures, including dams, levees, floodwalls, floodgates, pump stations and similar large-scale water conveyance or retention structures. He is a technical lead for geological and geotechnical engineering practice including geotechnical drilling programs and geotechnical design. Mr. Wildman is a thought leader in infrastructure resilience. In 2020 while serving on ASCE's national Science, Policy, Education, and Economics Decision (SPEED) committee within the Infrastructure Resilience Division, Mr. Wildman authored a chapter entitled "Administrative or Construction Solutions: Finding the Right Resources" in the American Bar Association's The Community Resilience Handbook. In 2021, he was awarded the prestigious Douglas R. Piteau Award for outstanding younger member at the international level by the Association of Environmental and Engineering Geologists (AEG). He is a professional geologist licensed in New York and a professional engineer licensed in Louisiana.		

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).
09/24 - 07/25	Tampa Westshore Interchange, Florida Department of Transportation, Tampa, FL: This project will fully reconstruct Tampa's Westshore Interchange (I-275/SR 60) with a modern design and added capacity with general use and express lanes. The updated design includes 41 bridges and flyover ramps providing better traffic operations including the replacement of the existing loop ramp from eastbound SR 60 to northbound I-275. Mr. Wildman worked with the geotechnical engineering team to prepare and review drilled shaft axial capacity calculations and accompanying bridge design reports.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
11/09 - 04/11	DFW Connector, Texas Department of Transportation, Grapevine, TX: WSP provided design services for the DFW Connector Highway Expansion at the the northeast corner of the Dallas Fort Worth International Airport. This project was simultaneously designed and built along 8.4 miles of SH 114 and SH 121 in Grapevine, Southlake and Irving, Texas. It doubled the size of the existing highway system, up to 24 lanes at its maximum width, around the north entrance of DFW International Airport. The project featured a combination of new mainlanes, frontage road lanes and TEXpress Lanes as well as bridges and retaining walls. Mr. Wildman assisted in the geotechnical design as he maintained an archive and completion database of over 200 geotechnical borings completed for the project. He provided geotechnical borehole logging and inspection for borings ranging from 10 to 140 feet depth, logging both soil and rock. He also maintained an archive and completion database of geotechnical laboratory test assignments and results including quality control review of laboratory results. Mr. Wildman provided quality control review and standardization of exploratory geotechnical borehole logging. He coordinated driller and drill rig availability with drilling contractors; coordinated with geotechnical laboratories and assigned and received geotechnical laboratory tests and results. He input field boring logs into a gINT database and developed geologic cross sections for slope stability models and provided quality control review of geotechnical design packages for retaining wall, bridge abutment, pavement section, and on/offramp submittals.
09/24 - 09/24	B&P Tunnel Replacement – West Baltimore MARC Station, National Railroad Passenger Network (Amtrak), Baltimore, MD: The Baltimore & Potomac Tunnel west of Baltimore Penn Station is the oldest Amtrak tunnel, is exhibiting structural deficiencies, and is a frequent bottleneck on Amtrak’s northeast corridor. Amtrak contracted WSP to design a replacement tunnel and ancillary facilities. Mr. Wildman worked with the geotechnical engineering design team as a reviewer for tie-back, micropile, and soldier pile wall construction specifications.

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Firm employed by	WSP USA Inc.		
Name	R. Scott Taylor, PE	Years of relevant experience with this employer	33
Title	Hydraulics and Hydrology	Years of relevant experience with other employer(s)	N/A
Degree(s) / Years / Specialization	MS / 1992 / Civil Engineering; BS / 1991 / Civil Engineering; BS / 1990 / Physical Science		
Active registration number / state / expiration date	Professional Engineer: 103148 / TN / 02/28/2027; also licensed in MS, FL, TX, SC, MO, GA, VA, OK		
Year registered	1997	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Mr. Taylor has 33 years of experience as a water resources engineer and project manager and has performed scour evaluations on hundreds of bridge crossings across the South. He applies HEC-RAS, HEC-RAS, FLO-2D, and RiverFLO-2D, SWMM, HEC-HMS, HydroCAD and TR-20, TR-60 and HEC-RAS water modeling techniques and hydraulic modeling for evaluation and design. He is involved with a variety of projects, including engineering design, environmental studies, H&H modeling and regulatory compliance. He has worked with several cities, states, military installations, and commercial clients in the analysis and implementation of their storm water programs. He has also been involved with the development of stormwater control manuals and policies, detention pond design, bridge replacement studies, roadway drainage design, BMP design, hydraulic empirical scour studies, and the development of storm water pollution prevention, spill response, and storm water management plans. He is an expert on USFWS, NRCS, and USACE standards for dams and levee evaluation and design.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
08/25 - Ongoing	Eastern Federal Lands, Wiley Oakley Bridge Replacement, Gatlinburg, TN: Lead H&H Engineer for a bridge replacement design located over the West Prong Little Pigeon River near Gatlinburg, TN. WSP performed the hydrology and hydraulics for the project, including a FEMA flood study; scour analysis using FHWA guidelines, bridge drainage design, roadway drainage design, and cross-drain design. Models included HEC-RAS, SRH-2d, and use of the Hydraulic Toolbox.
09/20 - 03/23	Mississippi DOT (MDOT), Scour Evaluation for Yalobusha River Bridges at I-55, Grenada County, MS: Project Manager for the completion of a Phase I and Phase II Bridge Scour Evaluation of the I-55 bridges over the Yalobusha River. Overseeing the Phase I scour evaluation, collected all pertinent data for the scour evaluation and complete qualitative analysis. An SRH-2d model was developed to analyze the hydraulics of the riverine system.
05/13 - 08/14	Tennessee DOT (TDOT), Roadway Drainage Design for State Route 247 (Duplex Road), Spring Hill, TN: Project Manager for the hydraulic design of proposed crossings over the McCutcheon Creek, Grassy Branch, and Aenon Creek on the proposed widened section of State Route (SR 247 - Duplex Road) in Spring Hill, TN. The project included a FEMA no-rise analysis, hydraulic size analysis and design, scour analysis, and associated documentation of the impact to the floodplain elevations and floodway widths resulting from the proposed modified crossings.

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).
02/18 - 07/20	MDOT, Conceptual Bridge Replacement Analysis and Phase I, II, and III Scour Evaluation for I-10 over Wolf River, Harrison County, MS: Project Manager for performing hydraulic analysis and bridge scour assessment on I-10 over Wolf River bridge in south Mississippi. Responsibilities included field inspection; hydraulic analysis, including reproducing a FEMA effective model using HEC-RAS; scour estimation in accordance with the FHWA's publications HEC-18 and HEC-20 using both HEC-RAS and SRH-2D. This projection included a FEMA no-rise analysis, hydraulic size analysis, and design, scour analysis, and associated documentation of the impact to the floodplain elevations and floodway widths from the proposed bridge widening. Project also included a loading and structural analysis to determine if predicted scour would cause instability in the bridge structure.
02/16 - Ongoing	MDOT, SR-9 Bridge Replacements over Yalobusha Floodplain and Shutispear Creek (2 Task Orders), Calhoun County, MS: Project Manager for two Phase A Bridge Replacement Analyses for eleven bridge crossings as part of two task orders: ten crossing the Yalobusha floodplain and one crossing Shutispear Creek in Calhoun County. The first task order was initiated in 2016 included 4 bridge replacements and the second in 2021 involves seven replacements. This project includes conceptual, preliminary, and final bridge recommendations for eleven bridges.

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Firm employed by	WSP USA Inc.		
Name	Britton Wells, CFM	Years of relevant experience with this employer	18
Title	Hydraulics & Hydrology	Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization	BS / 2004 / Civil Engineering		
Active registration number / state / expiration date	Certified Floodplain Manager: US-08-03865 / TN		
Year registered	N/A	Discipline	
Contract role(s) / brief description of responsibilities	 Mr. Wells has extensive experience working on hydrologic and hydraulic modeling of large riverine watersheds, and urban storm water networks serving a variety of city, state and federal clients. His experience includes model calibration and validation, streamflow forecasting, pre- and post-development analysis, technical reviews, FEMA guidelines and specifications, floodplain mapping, levee interior drainage, rainfall and streamflow measurement, roadway drainage, hydraulic bridge design, topological and as-built surveys, and stream morphological surveys. He is highly knowledgeable in many modeling software programs including HEC-RAS, HEC-HMS, EPA-SWMM, XPSWMM, PCSWMM, PondPack, CulvertMaster, HY-8, Bently ORD, and SRH-2D. He is also experienced in disaster management and recovery following major flooding events, conducting damage assessments for residential and commercial 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).
06/22 - 06/25	Louisiana Department of Transportation and Development (LADOTD), Louisiana Watershed Initiative, Region 3 Watershed Modeling, Baton Rouge, LA: H&H Engineer responsible for development and calibration of watershed scale models for the LWI program to serve as the basis for analysis of future developments, flood mitigation feasibility studies, watershed management strategies and consequence and risk assessment across four watersheds in Region 3. Hydrologic and hydraulic analyses include both one- and two-dimensional models developed using Hydrologic Engineering Center’s (HEC) suite of software products.
01/24 - Ongoing	City of Mt. Juliet, TN - Old Lebanon Dirt Road Widening: Lead Hydraulic Engineer responsible for the design of the conveyance system to assist in addressing the flooding along Old Lebanon Dirt Road. Tasks include modeling of the roadway drainage and cross drain system in Geopak, FEMA HEC-RAS No-Rise analysis, and SRH-2D modeling for analysis of a diversion canal.
03/24 - Ongoing	City of Clarksville, TN – Needmore Road Improvements: Lead Hydraulic Engineer responsible for the design of the drainage system supporting roadway improvements of approximately 1.6 miles of Needmore Road in a rapidly developing area of the City. Modeling of the roadway drainage and cross drain system conducted in Bently ORD. Design included avoiding negative impacts to numerous adjacent sinkhole areas.
07/16 - 05/19	GDOT I-285 & SR-400 Improvements, Atlanta, GA: Project Engineer responsible for hydrologic and hydraulic study consisting of modeling on- and off-site drainage through cross-drain systems and design of detention and energy dissipation solutions to ensure impacts are contained within the right-of-way. H&H Analyses consisted of PondPack, HEC-RAS steady flow modeling, and CulvertMaster.
07/16 - 05/19	GDOT Special Drainage Studies, Statewide, GA: Assisted with detailed hydraulic and hydrologic analyses and infrastructure designs to solve drainage/flooding problems along the Department's roadways. Services included site reconnaissance, agency coordination, topographic surveys, hydrologic and hydraulic modeling and recommendation of infrastructure improvements.

STAFF EXPERIENCE

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/19 - 12/19	GDOT Design-Build Bridge Replacement Program (FY2016 and FY2018) – Statewide, GA: Project Engineer part of the team responsible for hydrologic and hydraulic study 17 off-system bridges to be replaced using a Design-Build delivery method. Detailed scour analyses were conducted using HEC-18 procedures and guide bank and scour countermeasures were designed using HEC-23 procedures. HEC-RAS software was used to model the existing and proposed bridge configurations for one-dimensional, steady flow applications.
06/22- Ongoing	MDOT SR9 Bridge Replacements over Yalobusha River Floodplain, Calhoun County, MS: Hydraulic Engineer responsible for analysis and design of a multi-phased bridge replacement of eleven floodplain crossings in Calhoun County, MS. Project includes two-dimensional hydraulic analysis utilizing SRH-2D to determine the optimal bridges size/type and span configurations, scour analysis, and countermeasure design.
09/24 - Ongoing	MDOT Scour - Union County, MS: Hydraulic Engineer responsible for scour evaluation and countermeasure design for four bridges along I-22 and SR-178 in Union County, MS. Project includes hydraulic modeling utilizing SRH-2D, detailed scour analysis using HEC-18 procedures, and scour countermeasure design using HEC-23 procedures.
09/23 - Ongoing	TDOT SR-76 Improvements, Carroll County, TN: Hydraulic Engineer responsible for hydrologic and hydraulic study consisting of modeling on- and off-site drainage through cross-drain systems and design of energy dissipation solutions to ensure impacts are contained within the right-of-way. H&H Analyses consisted of GeoPak, StormCAD, and HY-8.
02/25 - Ongoing	TDOT SR-30 Improvements, Rhea County, TN: Lead Hydraulic Engineer responsible for the design of the drainage system supporting roadway improvements of approximately 3.2 miles of SR-30 in Rhea County. Modeling of the roadway drainage and cross drain system conducted in Bentley ORD. Design of energy dissipation solutions to ensure impacts are contained within the right-of-way.
01/18 - 06/22	TDOT I-75/I-24 Interchange Improvements - Chattanooga, TN: Hydraulic Engineer. Served as Owners Representative for TDOT for the I-75/I-24 Interchange Design-Build project in Chattanooga, TN. Tasked with hydraulic design to determine the optimal bridges size/type and span configurations in the development of preliminary plans. Conducted design review to ensure final design met regulatory requirements.
11/16 - 05/19	TDOT Continuing Drainage services Contract, Statewide, TN: Project Engineer responsible for performing drainage complaint inspections, detailed hydrologic and hydraulic modeling/analyses, topographic surveys, technical reports, construction cost estimates, and construction plans for multiple complex drainage problem sites across the State.
01/21 - 06/22	SCDOT US-601 over Colonel's Creek Bridge Replacement – Richland County, SC: Project Engineer responsible for Hydraulic Design and Scour Analysis of a replacement bridge within a FEMA Special Flood Hazard Area. Hydraulic Modeling Analyses were performed in order to meet regulatory requirements and to determine the optimal bridge size/type and span configuration. HEC-RAS software was used to model the existing and proposed bridge configurations. Detailed scour analyses were conducted using USGS Envelope Curves and HEC-18 procedures and scour countermeasures were designed using HEC-23 procedures.
11/20 - 06/22	SCDOT Scour Critical Assessment and Management System: Hydraulic Engineer responsible for Scour Analysis and Plan of Action development for approximately 250 sites across multiple counties in South Carolina. Project included hydraulic site visits, SRH-2D hydraulic analysis, and detailed scour analyses conducted using USGS Envelope Curves and HEC-18 procedures.

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Firm employed by	Gresham Smith		
Name	John Weres, PE	Years of relevant experience with this employer	9
Title	QA/QC, Railroad Coordination, & Historical Bridge Rehab	Years of relevant experience with other employer(s)	36
Degree(s) / Years / Specialization	BS / 1980 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 0036429 / LA / 09/30/2027		
Year registered	1985	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities	 John Weres is a senior civil and structural engineering professional with 45 years of experience. He specializes in structural engineering, bridge evaluation, QA/QC oversight, and railroad coordination support for complex infrastructure projects. As a licensed professional engineer with long-standing experience in both Louisiana and Pennsylvania, John brings seasoned judgment, technical rigor, and dependable leadership to every assignment. His work reflects deep expertise in structural assessment, emergency response support, historic bridge preservation, and coordination with transportation agencies, contributing consistently to safe, accurate, and high-quality engineering solutions. Meets MPR #4/11		

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).
05/20 – 09/20	LADOTD, US 71 Spring Street Bridge – Emergency Repairs (Derailment), Shreveport, LA: Lead structural engineer for the design and construction services for the repairs for the emergency repairs of the US 71 Spring Street bridge following the train derailment and subsequent damages. John performed an emergency field inspection within a few days of the derailment and assisted the Department in establishing the plan and scope of required repairs. The repairs included the replacement of the damaged bent and installation of a concrete crashwall to protect the structure from future derailments. John worked closely with the contractor to develop and review the temporary support system for the removal of the damaged bent and the temporary shoring to support the active railroad for the installation of the crashwall including the helical pile installation. Historic preservation details were coordinated with the Department throughout the project.
06/19 – 09/24	LADOTD, Complex Bridge Inspections, Statewide, LA: Project manager and EOR for six movable bridge inspections in 2020 and 2021 in Iberville, Iberia and Rapides Parishes. Under a five-year retainer project for complex bridge inspections of major river crossings, completed hands-on inspection of fracture critical elements on several structures including the LA1 Truss over Atchafalaya River at Simmesport, LA8 Segmental Bridge over Red River at Boyce and the US165 Vertical Lift Bridge over Red River and the I-20 Mississippi River Bridge in Vicksburg, Ms. Gresham Smith also inspected multiple movable bridges including vertical lift bridges and steel truss swing bridges. John has also served as the Project Manager and EOR for six movable bridge inspections in 2020 and 2021 in Iberville, Iberia and Rapides Parishes.
09/22 – 11/25	FDEP, Shark Channel Bridge Rehabilitation Design, Key West, FL. Project manager for the preservation that included an evaluation of existing conditions to establish the scope of work, cost estimate, and the preparation of final design plans. Gresham Smith performed final design for the preservation of the historic, ~2,200-foot-long Shark Channel Bridge in order to re-open the structure for trail use. The bridge was reopened for trail users in November 2025.

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).
02/25 – 06/25	City of Knoxville, Gay Street Bridge Load Rating and Repairs, City of Knoxville, TN: Senior engineer and UAS pilot made videos and photographed the entire structure with emphasis on the deformed members. The team then performed a load rating of the truss and John performed quality control of the rating and also assisted in the repair recommendations. The City of Knoxville TN selected Gresham Smith to perform an inspection, perform a load rating, and develop rehabilitation recommendations for a major deck truss structure in downtown Knoxville. The bridge was closed to all traffic following discovery of deformation of truss members.
06/21 – 08/21	FLDOT, Florida DEP, Florida Keys Overseas Heritage Trail Historic Bridge Evaluation, Marathon, FL. QA/QC for the field evaluation being performed visually from a boat, with binoculars, and with the use of drone photography. Gresham Smith is coordinating and preparing evaluation documents for the historic Bahia Honda Bridge (approximately one mile long) and the southern portion of the historic Seven Mile Bridge (approximately 4.5-mile portion). The intent of the evaluation is to determine the most critically deteriorated portions of the structures and providing recommendations on immediate, short-term and long-term plans for demolition or salvage of all or portions of the structures.
11/17–06/20	MDOT, MS-178 Benton County Bridges, Benton County, MS. Lead structure engineer for the final design of a two-cell box culvert and two prestressed concrete girder structures in northern Mississippi. These water crossings improved the hydraulic conditions at the sites and incorporated low-maintenance details such as jointless bridges.
07/18–06/21	MDOT, SR 149 Simpson County Bridge Replacements, Simpson County, MS. Lead structure engineer for the project. Gresham Smith is partnering with MDOT for Phase B (Final Design) for the reconstruction of S.R. 149 near D’Lo, Simpson County, Mississippi. Gresham Smith is designing the two longer structures (Bridge 128.2 and Bridge 128.6). This is the first instance of partial depth deck panels utilized for MDOT as a pilot to verify the ease of construction and as an accelerated (ABC) time condition.
07/15 – 12/18	GDOT, SR 15/Sandersville Truck Route GRIP Widening and New Bridge Over Railroad Spur Line, Sandersville, GA. Project engineer developed a value engineering design utilizing a reduced median width and MSE walls to reduce the bridge length to reduce costs, including mitigation costs. Gresham Smith developed preliminary and final plans for a truck bypass project, including a combination of new alignment and existing roadway widening to create a four-lane section, as well as a new bridge over a railroad spur line.
01/17 – 08/21	MDOT, Marshall County Bridges Replacements, Marshall County, MS. Lead structure engineer provided construction services for the new three-span Byahalia Bridge and served as Engineer of Record (EOR) for replacement of five multi-span stream crossing structures in north Mississippi.
06/21 – Ongoing	FDOT D2, Palatka to Lake Butler Trail, Bradford County, FL. Senior structures engineer and EOR on this three-mile trail project in Bradford County. The bridge consisted of a new 210’ Florida I-Beam structure spanning over US 301, including allowances for future widening of US-301 to six thru-lanes. Extensive coordination on the aesthetic treatments was conducted with the City of Hampton and Bradford County. The foundations consist of 30” pipe piles. The letting was recently completed with construction scheduled to begin later in 2025.

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Firm employed by	Gresham Smith		
Name	Courtney Rome, PE	Years of relevant experience with this employer	8
Title	Railroad Coordination, Bridge Inspection, & Historical Bridge Rehab	Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization	BS / 2009 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 0043355 / LA / 09/30/27		
Year registered	2019	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities	 Courtney Rome is a civil engineering professional with more than 15 years of experience, including supporting bridge design, structural evaluation, and railroad coordination efforts. As a licensed professional engineer, Courtney provides technical leadership in structural analysis, emergency repair support, bridge load rating, and rehabilitation planning. He is known for detail-oriented engineering judgment, strong coordination skills, and reliable contributions to safe, efficient, and well-executed infrastructure solutions. His experience demonstrates a steady commitment to quality, safety, and delivering sound engineering results across a range of transportation and structural projects. Meets MPR #11		

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).
05/20 – 09/20	LADOTD, US 71 Spring Street Bridge – Emergency Repairs (Derailment), Shreveport, LA: Project engineer served for the design and construction services for the emergency repairs for the emergency repairs of the US 71 Spring Street bridge following the train derailment and subsequent damages. Courtney led the design for the substructure items, including the pile design and crashwall design, and also lead the review of the temporary shoring for the temporary shoring for the railroad.
06/19 – 09/24	LADOTD, Complex Bridge Inspections, Statewide, LA: Engineer and NHI certified bridge inspector performed bridge inspections for various complex bridge structures throughout Louisiana, including steel trusses, concrete structures, and movable bridges.
07/19 – Ongoing	TDOT, Complex and Standard Bridge Load Ratings, Statewide, TN: Project engineer provided bridge load ratings for approximately 141 complex structures and 137 standard structures across the state of Tennessee. Complex structures were analyzed utilizing finite element methods and CSi Bridge software. The structures load rated consisted of curved steel tub girders, steel arches with steel cables supporting steel floor beam – stringer systems, deck trusses, bascule arched steel truss, steel girder-floor beam-stringer system bridges, steel rigid K-frame bridges, and reinforced concrete rigid k-frames with spliced prestressed girders for center span bridges. The standard structures were analyzed using the AASHTOWare BrR software.
09/22 – 11/25	FDEP, Shark Channel Bridge Rehabilitation Design, Key West, FL. Project manager and structural engineer for the bridge preservation. Gresham Smith performed final design for the preservation of the historic, ~2,200-foot-long Shark Channel Bridge in order to re-open the structure for trail use. The preservation includes an evaluation of existing conditions to establish the scope of work, cost estimate, and the preparation of final design plans. The bridge was reopened for trail users in November 2025.

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).
07/18 – 06/21	MDOT, SR 149 Simpson County Bridge Replacements, D’Lo, Simpson County, MS. Engineer-of-Record for the two longer structures (Bridge 128.2 and Bridge 128.6). Gresham Smith partnered with MDOT for Phase B (Final Design) for the reconstruction of S.R. 149 near D’Lo, Simpson County, Mississippi. This is the first instance of partial depth deck panels utilized for MDOT as a pilot to verify the ease of construction and as an accelerated (ABC) time condition.
06/25 – 08/25	MDOT, 2024 BR WA #5 US 80 over Pearl River Bridge Repair, Rankin County, MS. Bridge engineer. Gresham Smith was contracted to provide bridge repair designs for Bridge No. 46.9 on US 80 over Pearl River Relief in Rankin County.

16. STAFF EXPERIENCE:

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Firm employed by	Gresham Smith		
Name	Herbert 'Bert' Moore, II, PE, PLS, PTOE	Years of relevant experience with this employer	11
Title	Traffic Engineer	Years of relevant experience with other employer(s)	16
Degree(s) / Years / Specialization	BS / 1999 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date	Professional Engineer: 0031065 / LA / 09/30/26; Professional Traffic Operations Engineer: 2728 / 09/30/26; Professional Land Surveyor: 5043 / LA / 09/30/26		
Year registered	2004 (PE); 2009 (PTOE); 2010 (PLS)	Discipline	Civil Engineering, Traffic Engineering, Surveying
Contract role(s) / brief description of responsibilities	 Herbert Moore has over 27 years of experience as both as a consultant and as LADOTD's District Traffic Operations Engineer for District 61. Bert has demonstrated his knowledge of LADOTD requirements and preferences, and proven adept at getting things done efficiently. Bert has spent the majority of his 27-year career involved with LADOTD traffic related roles including development of TMP plans, traffic control and mobilization, capacity improvements and safety related programs. Meets MPR #9		

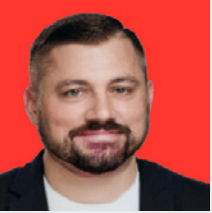
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
04/18 – 05/19	LADOTD, I-10 TMP West of LA 108 to I-210 Interchange TMP, Lake Charles, LA: Project executive for the overall study including overseeing the data collection review, conducting the queue and safety analysis, implementing the proper traffic control plans, development of the TMP report, the design of two temporary traffic signals and QA/QC. Gresham Smith developed a TMP for the Rubblization and Overlay on I-10 between I-210 and the LA 108 Interchange in Lake Charles, LA. This project included the mill and overlay of I-10, widening two flat deck bridges on I-10 to add a lane, and replacing all of the concrete panels on I-10 through the LA 108 interchange. In order to replace the concrete panels on I-10, traffic was moved to a C/D road within the interchange and cloverleaf ramps were closed during construction. Two temporary traffic signals were designed to facilitate traffic at this interchange. This project included data collection and queue and safety analyses and traffic signal design.
10/17 – 04/18	LADOTD, US 90 Bridge Maintenance over I-10 Ramps, Transportation Management Plan (TMP), Lake Charles, LA: Project executive for the overall study including overseeing the data collection review, conducting the queue and safety analysis, implementing the proper traffic control plans and development of the TMP report. Gresham Smith was selected to develop a TMP for the replacement of the bridge deck of the US 90 overpass over I-10 in Lake Charles, LA. The project included working with the design engineers to determine the required lane closures for the construction, data collection and queue and safety analyses.

STAFF EXPERIENCE

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
05/17–03/19	LADOTD, I-210 at LA 1138-2 (Nelson Road) Interchange Modification Re-Evaluation Study, Lake Charles, LA: Project executive for the overall study, overseeing data collection, conducting safety analysis, development of VISSIM models, development of alternatives and the report. Gresham Smith was selected to develop a calibrated VISSIM model to model existing conditions and the future proposed diverging diamond interchange at I-210 at Nelson Road in order to evaluate the proposed interchange design. The project included data collection, development of growth rates, lead the Road Safety Assessment, developing and calibrating an existing VISSIM model and evaluation of the proposed alternative.
05/17 – 01/19	LADOTD, US 171 MLK Boulevard Traffic Study, Lake Charles, LA: Project executive for collection of traffic count data and used to create Vissim models of the study area. These models were calibrated to accurately represent existing traffic patterns along the corridor. Alternative solutions were analyzed with additional models and conceptual designs for potential solutions were developed. The study area included three miles of US 171, eight signalized intersections and a cloverleaf interchange with Interstate 10.
02/18 – 10/24	TDOT, I-40 at Donelson Pike Interchange, Nashville, TN: Project designer for improving traffic operations at the I-40/SR 255 (Donelson Pike) Interchange and access to the Nashville International Airport (BNA). The airport serves a large portion of Tennessee residents as well as residents from surrounding states; the interchange is the airport’s primary access point and very important to the overall success of the state and its tourist industry. The project consists of a proposed Diverging Diamond Interchange, a 1.2-mile collector-distributor road along I-40 eastbound, and 1.75 miles of new urban alignment for the relocation of Donelson Pike.
05/20 – 09/20	LADOTD, US 71 Spring Street Bridge – Emergency Repairs (Derailment), Shreveport, LA: Project executive who provided traffic related consultation for the roadway closure task and general project oversight, particularly coordination with LADOTD. In April of 2020, a train derailment damaged Bent 3 of the Spring Street Bridge forcing the roadway closure. Gresham Smith was selected to perform the bridge repairs to open the bridge. Working with the selected contractor, helical piles were designed to support the new column foundations and crash wall.
2/17–12/20	LADOTD, SRTS/LRSP Task Order 6 & 21: Endom Bridge, West Monroe, LA: Project executive for overseeing the data collection, analyzing the traffic counts to determine appropriate lane configuration and geometry, and support and coordination of overall design. The project consisted of roadway realignment at the bridge approach to improve roadway geometry and safety. Right-of-way is being acquired at one quadrant of the intersection and Gresham Smith is assisting with the coordination between the right-of-way plans and the roadway requirements.

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Firm employed by	Gresham Smith		
Name	Alben Cooper III, PE, PTOE	Years of relevant experience with this employer	2
Title	Traffic Engineering & Lighting	Years of relevant experience with other employer(s)	17
Degree(s) / Years / Specialization	BS / 2006 / Civil Engineering, Louisiana State University		
Active registration number / state / expiration date	Professional Engineer: 0036291 / LA / 09/30/27; Professional Traffic Operations Engineer: 3206 / 05/02/27		
Year registered	2011 (LA); 2012 (PTOE)	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Alben Cooper III has 19 years of experience. He is licensed as both a professional engineer and a professional traffic operations engineer, bringing strong leadership and technical depth to every assignment. Alben is recognized for his focus on safe, efficient, and well-coordinated traffic operations, consistently guiding complex traffic tasks with clarity and reliability. His experience reflects a steady commitment to effective coordination, high professional standards, and delivering practical, safety-driven engineering solutions. Meets MPR #9		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
05/21–05/24	MovEBR, Sherwood Forest Blvd MUP, C-P Project No. 20-EN-HC-0027, Baton Rouge, LA: Senior engineer responsible to perform QA/QC for the design of the traffic signals for the I-12 at Sherwood Forest Blvd interchange including pedestrian signals for the multi-use path along the west side of Sherwood Forest Blvd. Gresham Smith was selected to perform a traffic study and design of the pedestrian signal accommodations and crosswalks along Sherwood Forest Blvd between South Harrell’s Ferry Road and Old Hammond Highway for the Sherwood Forest multi-use path.
08/20–08/21	LADOTD, Westbank Expressway at Whitney Ave Signal Modifications, Jefferson Parish, LA: Lead designer for the design of signal modification at the intersection of Westbank Expy and Whitney Ave. The signal modifications were required to accommodate a new multi-use path crossing at the southern portion of the intersection. The crossing included audible push button activation for a pedestrian phase to run concurrently with the existing phasing. Mr. Cooper coordinated with LADOTD to ensure the design met all requirements for the signalized crossing.
11/20–01/21	LADOTD, Livingston Counts and Crosswalk Studies, Livingston Parish, LA: Lead engineer responsible for overseeing each study, one of which included multiple school crossings. The crosswalk studies were prepared in accordance with the LADOTD Traffic Engineering Manual. He performed QA/QC for each study to ensure compliance with the guidelines in the manual. This project included the collection of traffic/pedestrian data and performing crosswalk studies at four locations in Livingston Parish, LA.

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).
07/18–01/20	LADOTD, Fat City Improvements – Traffic and Parking Study, Jefferson Parish, LA: Lead traffic engineer on the project which relied heavily on communicating with the district councilperson and various stakeholders. Potential improvements included a wide variety of solutions including converting streets to one-ways, adding bike paths, modifying on-street parking, adding off-street parking, ordinance changes, and improving pedestrian facilities. After the study completion, he was invited to be a member of a stakeholder committee to provide input on transportation related items related to the Fat City revitalization. This traffic study was performed to evaluate potential improvements to the parking and circulation patterns within the area known as Fat City in Jefferson Parish, LA. The recommendations of the study were a part of an overall plan to revitalize Fat City.

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Firm employed by	Gresham Smith		
Name	Rebecca Murray, PE, PTOE, RSP1	Years of relevant experience with this employer	10
Title	Traffic Engineering & Lighting	Years of relevant experience with other employer(s)	N/A
Degree(s) / Years / Specialization	BS / 2015 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 0043788 / LA / 3/31/26; Professional Traffic Operations Engineer: 4861 / 3/26/26; Road Safety Professional – Level 1: 611 / 04/05/27		
Year registered	2019 (LA); 2020 (PTOE); 2021 (RSP1)	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Rebecca Murray is a traffic engineer with 10 years of experience at Gresham Smith, specializing in traffic engineering, safety-focused operations, and transportation planning support. As a licensed professional engineer, professional traffic operations engineer, and road safety professional level 1, she contributes technical expertise across a range of traffic management and operational tasks. Rebecca is known for her careful analytical approach, strong coordination skills, and consistent support of safe, efficient, and well-structured traffic solutions. Her work reflects reliable collaboration, thorough problem-solving, and an ongoing commitment to delivering high-quality transportation engineering services.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
04/18 – 05/19	LADOTD, I-10 TMP West of LA 108 to I-210 Interchange TMP, Lake Charles, LA: Pre-professional assisted with traffic counts and queue analysis, safety analysis, alternate route/detour analysis, temporary traffic control, and development of the TMP report. Gresham Smith developed a TMP for the Rubblization and Overlay on I-10 between I-210 and the LA 108 Interchange. Included the mill and overlay of I-10, widening two flat deck bridges on I-10 to add a lane, and replacing all of the concrete panels on I-10 through the LA 108 interchange. Two temporary traffic signals were designed to facilitate traffic at this interchange, and this project included data collection and queue and safety analyses and traffic signal design.
10/17 – 04/18	LADOTD, US 90 Bridge Maintenance over I-10 Ramps, Transportation Management Plan (TMP), Lake Charles, LA: Pre-professional responsible to review traffic and crash data and assist with development of the TMP report. Gresham Smith was selected to develop a TMP for the replacement of the bridge deck of the US 90 overpass over I-10 in Lake Charles, LA. The project included working with the design engineers to determine the required lane closures for the construction, data collection and queue and safety analyses.
03/25 - Ongoing	LADOTD, LA 24 Truck Route Study (Barataria Ave to Barrow St), Terrebonne Parish, LA: Transportation engineer for a traffic study to evaluate the feasibility of removing the truck route designation from a section of LA 24 between Barataria Ave and Barrow St in Terrebonne Parish, LA. This includes the evaluation of suitable alternative truck routes throughout the region. This project requires close coordination with LADOTD and Terrebonne Parish Consolidated Government.

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 – 08/25	LADOTD, Flashing Yellow Arrow Part 1, Lafourche Parish, LA: Transportation engineer for this task. Gresham Smith was selected by LADOTD as part of the Traffic Engineering IDIQ with performing the inspection and design services required to upgrade the existing traffic signals in Lafourche Parish to Flashing Yellow Arrow (FYA) operations. This included all of the traffic signals in Lafourche Parish that currently operate with protected / permitted left turn operations that were currently not being upgraded by existing construction projects, which was 30 traffic signals on the state highway system.
05/17–03/19	LADOTD, I-210 at LA 1138-2 (Nelson Road) Interchange Modification Re-Evaluation Study, Lake Charles, LA: Pre-professional responsible for overseeing data collection, participated on the RSA team, conducting safety analysis, development of VISSIM models, development of alternatives and development of the report. Gresham Smith was selected to develop a calibrated VISSIM model to model existing conditions and the future proposed diverging diamond interchange at I-210 at Nelson Road in order to evaluate the proposed interchange design.

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Firm employed by	Gresham Smith		
Name	Julian Bordelon, PE	Years of relevant experience with this employer	7
Title	Traffic Engineering & Lighting	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization	BS / 2018 / Electrical Engineering		
Active registration number / state / expiration date	Professional Engineer: 0047473 / LA / 09/30/27		
Year registered	2023 (LA)	Discipline	Electrical Engineer
Contract role(s) / brief description of responsibilities	 Julian Bordelon has nine years of experience. As a licensed professional engineer, he specializes in roadway lighting design, photometric analysis, and electrical system development. Julian is recognized for his strong technical proficiency, careful attention to detail, and commitment to delivering safe, reliable, and well-designed lighting solutions. His work reflects consistent leadership in lighting calculations, system analysis, and coordination across multidisciplinary teams, supporting efficient project delivery and high-quality engineering outcomes.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
04/21 – 04/24	Lafayette Consolidated Government, Johnston Street Relighting, Lafayette, LA. Lighting engineer performed a field inspection of the existing conditions and assisted in the development of electrical and lighting plans and details for two miles of US 167 Johnston St in Lafayette, Louisiana.
03/21 – 12/22	MovEBR, Jefferson Hwy at Bluebonnet, Baton Rouge, LA. Lighting engineer assisted in preliminary photometric analysis and street lighting design for the portions of Jefferson highway and Bluebonnet Boulevard adjacent to the intersection of Jefferson Highway and Bluebonnet Boulevard in Baton Rouge, Louisiana. Gresham Smith was selected as part of a team to perform the traffic design report and street lighting analysis and design for the portions of Jefferson highway and Bluebonnet Boulevard adjacent to the intersection of Jefferson highway and Bluebonnet Boulevard study in Baton Rouge, Louisiana. The goal of the traffic design report is to collect data at the study intersection, perform capacity analyses of existing and future traffic volumes and develop alternatives for improved capacity. The lighting analysis was performed to provide a design to relocate existing lighting to accommodate proposed roadway improvements at the intersection.
03/21 – Ongoing	MovEBR, Bluebonnet Boulevard Sidewalks, Baton Rouge, LA. Lighting engineer performed photometric analysis, lighting design, and electrical design for the existing system from Mall Drive 1 to Bluebonnet Centre Boulevard and proposed a pedestrian lighting and electrical system design between the I-10 EB and I-10 WB Ramps in Baton Rouge, Louisiana. Julian also performed all voltage drop, arc flash, conduit sizing, and short circuit calculations for the lighting system. This lighting project should bring the pedestrian accommodations up to IES recommendations.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/21 – Ongoing	MovEBR, Plank Road Corridor Enhancement, Baton Rouge, LA. Lighting engineer responsible for the electrical design, voltage drop, conduit sizing, and over current protection calculations for the lighting system on Plank Rd between Dawson Drive and Hooper Road. The purpose of this project is to improve the safety and mobility of both the vehicular and non-vehicular traffic through the Plank Road corridor from Dawson Drive to Harding Blvd. Gresham Smith is providing design study and lighting.
10/22 – Ongoing	Move Ascension, LA 44 Roundabout, Prairieville, LA. Lighting engineer responsible for the photometric analysis, electrical design, and technical specifications as well as voltage drop, arc flash, fault current, and conduit sizing calculations for the lighting system at the roundabout at LA-44 and Parker Rd. The purpose of the lighting system is to improve safety by providing adequate lighting for pedestrian and vehicle conflict points according to ANSI RP-8 and LADOTD recommendations.

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Firm employed by	Gresham Smith		
Name	Kendra McCoy	Years of relevant experience with this employer	13
Title	Traffic Engineering & Lighting	Years of relevant experience with other employer(s)	24
Degree(s) / Years / Specialization	BS / 2012 / Technical Project Management		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	 Kendra McCoy is a lighting technician with more than 37 years of experience in the lighting and electrical field. She specializes in roadway and pedestrian lighting support, field coordination, and assisting with the preparation of lighting design plans and technical documentation. Kendra is known for her reliability, strong attention to detail, and consistent contribution to safe and well-executed lighting solutions. Her experience reflects dependable teamwork, thorough problem-solving, and a long-standing commitment to supporting high-quality lighting and electrical design 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).
04/21 – 04/24	Lafayette Consolidated Government, Johnston Street Relighting, Lafayette, LA. Lighting technician performed the photometric analysis for Johnston Street and developed preliminary and final design plans for street lighting, voltage drop calculations, and construction cost estimates. Gresham Smith was selected by Lafayette Consolidated Government to develop design plans for street lighting for the 2.3-mile section of Johnston Street (US 167) through Lafayette Parish. LADOTD had a J-turn project that was removing the street lighting within the median of Johnson Street. The contractor's bid of this project was \$2.4 million, which was within 10% of the estimate of probably construction costs that was developed as part of the design for this project.
03/21 – 12/22	MovEBR, Jefferson Hwy at Bluebonnet, Baton Rouge, LA. Lighting technician performed the lighting analysis to provide a design to relocate existing lighting to accommodate proposed roadway improvements at the intersection. Gresham Smith was selected as part of a team to perform the traffic design report and street lighting analysis and design for the portions of Jefferson highway and Bluebonnet Boulevard adjacent to the intersection of Jefferson highway and Bluebonnet Boulevard study in Baton Rouge, Louisiana. The goal of the traffic design report was to collect data at the study intersection, perform capacity analyses of existing and future traffic volumes and develop alternatives for improved capacity.
03/21 – Ongoing	MovEBR, Bluebonnet Boulevard Sidewalks, Baton Rouge, LA. Lighting technician to perform a pedestrian operations study of the intersection of Bluebonnet Boulevard at Bluebonnet Centre/Blue Cross Parkway and to develop design plans to add pedestrian signals to the existing traffic signal in Baton Rouge, Louisiana. The goal of this project was to bring the existing intersection up to current ADA requirements for pedestrians. Studying pedestrian lighting for the entire length of the project and providing full design for the section under the I-10 overpass. This lighting project should bring the pedestrian accommodations up to IES recommendations.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/21 – Ongoing	MovEBR, Plank Road Corridor Enhancement, Baton Rouge, LA. Lighting technician. The purpose of this project is to improve the safety and mobility of both the vehicular and non-vehicular traffic through the Plank Road corridor from Dawson Drive to Harding Blvd. Gresham Smith is providing design study and lighting.
10/22 – Ongoing	Move Ascension, LA 44 Roundabout, Prairieville, LA. Lighting technician. The purpose of the lighting system is to improve safety by providing adequate lighting for pedestrian and vehicle conflict points according to ANSI RP-8 and LADOTD recommendations.

16. STAFF EXPERIENCE:

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Firm employed by	Gresham Smith		
Name	Donald McCrary, PE	Years of relevant experience with this employer	8
Title	Historical Bridge Rehab	Years of relevant experience with other employer(s)	16
Degree(s) / Years / Specialization	BS / 2001 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 0048452 / LA / 03/31/26		
Year registered	2023	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Donald McCrary is a civil engineering professional with 24 years of experience. He specializes in structural engineering, historic bridge rehabilitation, and technical support for complex transportation infrastructure. As a licensed professional engineer, Donald provides design leadership, structural analysis expertise, and reliable coordination across multidisciplinary teams. He is known for his strong problem-solving skills, practical engineering judgment, and commitment to delivering safe, efficient, and well-executed bridge solutions. His extensive experience reflects consistent involvement in major bridge programs, rehabilitation efforts, and the development of durable, high-quality structural designs.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
06/21 – 04/24	TDOT, Broadway Viaduct (SR 1) CMGC, Nashville, TN: Structures technical lead and EOR responsible for the design of the Broadway Bridge. He designed the steel girders which utilized High Performance Steel, designed the full-depth precast panels and also the substructures which used micro-piles were designed. Gresham Smith is providing environmental, utility coordination and design services for the replacement of the Broadway (SR 1) bridge over five tracks of the CSXT Railroad and 11th Avenue. Assistance to TDOT's Alternative Delivery Office is also being provided in the CM/GC selection process. ABC techniques will be used to replace the bridge quickly to minimize impact to businesses, adjacent developments and historic sites, and the traveling public.
02/18 – 08/22	TDOT, Bridge Maintenance and Repair Contract, Regions 1, 2 and 3, TN: Project manager served in various roles throughout his career on hundreds of bridge inspection and repair projects across all four regions of the state through this on call bridge repair contract with TDOT. This contract has included bridge inspections, tunnel inspections, routine structural repairs, superstructure replacements and widenings, full structure replacements, Accelerated Bridge Construction projects, and the load rating complex bridges.
01/17 – 03/21	City of Alcoa, Marconi and Duck Pond Greenway, Alcoa, TN: Project engineer and the team worked with the city through several design charrettes to identify opportunities and challenges, including ‘fill only’ areas encumbered by brownfields and unique abandoned railroad infrastructure to incorporate into the roadway and greenway corridors. Gresham Smith developed options for alignments and typical sections to provide connectivity for cars, pedestrians and cyclists for a planned 350-acre mixed-use development to surrounding schools and neighborhoods.

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).
03/18 – 02/19	TDOT, SR 171 over I-40 Bridge Widening, Wilson County, TN: Structures technical lead. The City of Mount Juliet, one of the fastest growing cities in the state of Tennessee, was experiencing a staggering increase in development near the I-40 Interchange with SR 171 (Mount Juliet Road). With the rapid increase in development came an influx of drivers needing access to the surrounding area. The current width of SR 171 through the interchange was not wide enough to accommodate the growth that took place. The City partnered with TDOT to complete a widening project on SR 171 to alleviate some of the congestion in the area. This project was completed through the TDOT Local Programs Office as a hybrid project. TDOT let the project to construction.

16. STAFF EXPERIENCE:

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Firm employed by	Gresham Smith		
Name	Adam Davidson, PE	Years of relevant experience with this employer	8
Title	Historical Bridge Rehab	Years of relevant experience with other employer(s)	18
Degree(s) / Years / Specialization	MS / 2004 / Civil Engineering; BS / 2002 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 110436 / TN / 1/31/2026		
Year registered	2008	Discipline	Civil Engineer
Contract role(s) / brief description of responsibilities	 Adam Davidson is a civil engineering professional with 26 years of experience. As a licensed professional engineer, he specializes in structural engineering, bridge rehabilitation, and support for complex and historic bridge projects. Adam brings strong technical expertise in structural design, analysis, constructability review, and coordination with transportation agencies. He is known for his dependable leadership, problem-solving ability, and commitment to delivering safe, efficient, and well-coordinated infrastructure solutions. His experience reflects consistent involvement in major bridge programs and the development of reliable engineering strategies across diverse structural assignments.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
06/21 – 04/24	TDOT, Broadway Viaduct (SR 1) CMGC, Nashville, TN: Structures technical lead responsible for providing environmental, utility coordination and design services for the replacement of the Broadway (SR 1) bridge over five tracks of the CSXT Railroad and 11th Avenue. Assistance to TDOT’s Alternative Delivery Office is also being provided in the CM/GC selection process. ABC techniques will be used to replace the bridge quickly to minimize impact to businesses, adjacent developments and historic sites, and the traveling public.
09/18 – 05/22	TDOT, US 64 (SR 40) Bridge over Ocoee River Design/Build Project, Polk County, TN: Structures technical lead responsible to provide services that includes preparation of the RFP and 30% plans, providing design-builder procurement services, review of all design-builder submittals, utility coordination, and construction phase services. Gresham Smith is the Owner’s Representative for this Design-Build project replacing the bridge carrying SR 40 over the Ocoee River. The bridge is being recognized as a gateway to the region, so aesthetic features were desired to enhance the appearance of the bridge.
02/18 – 08/22	TDOT, Bridge Maintenance and Repair Contract, Regions 1, 2 and 3, TN: Project manager served in various roles throughout his career on hundreds of bridge inspection and repair projects across all four regions of the state through this on call bridge repair contract with TDOT. This contract has included bridge inspections, tunnel inspections, routine structural repairs, superstructure replacements and widenings, full structure replacements, Accelerated Bridge Construction projects, and the load rating complex bridges.
06/18 – 10/19	TDOT, SR 13 over Trace Creek, SR 1, CSX RR, and Local Roads, Humphreys County, TN: Project manager for the completed bridge replacement project. The replacement structure is a 685-foot, eight continuous spans, concrete structure. Uniquely modified 36-inch deep bulb-tees with composite deck were used to achieve required clearance over the railroad without the need to raise the existing grade. This eliminated the need to purchase Right-Of-Way and thereby accelerated the project schedule. Additionally, the longer spans compared to the original structure eliminated costly foundations and substructure units and improved the hydraulic opening.

Experience dates
(mm/yy–mm/yy)

03/18 – 02/19

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).

TDOT, SR 171 over I-40 Bridge Widening, Wilson County, TN: Structures technical lead responsible to perform widening of a 249-foot four continuous-span, concrete structure using 36-inch by 36-inch precast prestressed concrete box beams with composite deck.

16. STAFF EXPERIENCE:

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Firm employed by	Stanley Consultants, Inc.		
Name	Blake Roussel, PE, PMP	Years of relevant experience with this employer	18
Title	Roadway	Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization	BS / 2003 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 33279 / LA / 09/30/2025; PMP: 2018301 / 03/23/2026		
Year registered	2007	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Blake Roussel specializes in managing design teams for the development of transportation infrastructure projects. Over his two-decade career in Louisiana, he has designed or managed 20+ projects for LADOTD. His professional experience encompasses project management and construction plan preparation for complete streets, and road design projects, in accordance with LADOTD plan preparation guidelines including both full-size and letter sized pavement preservation projects. Prior to joining Stanley Consultants, Blake gained valuable transportation experience employed by LADOTD. Blake is a certified Project Management Professional (PMP), which is recognized across the world as the gold standard in project management. As Project Principal, Blake's role in this contract will include resource and contract management. Blake will work closely with our Prime Consultant and assist our project PMs in leading individual task order contracts through our internal approval process. Blake will also take responsibility for meeting the resourcing needs for all work assigned. Blake is ultimately responsible for adherence to diligent scope, schedule, and quality project workflows for all projects led by the office. Meets MPR #8		

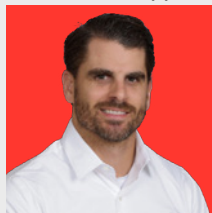
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
06/18 - 02/20	LADOTD, H.013191 LA 1: Iberville P/L - Port Allen Canal B, West Baton Rouge Parish, LA (District 61). Project Manager responsible for the overall supervision of engineers performing the survey, road design and plan preparation; coordination with the owner; reviewing the plans; checking compliance with the design criteria; and completing all required forms and documents in support of the plan package. Design tools used for this project included MicroStation.
06/18 - 01/21	LADOTD, H.012964 US 61: Bluebonnet Blvd to S. End US 190, East Baton Rouge Parish, LA (District 61). Project Manager responsible for the overall supervision of engineers performing the survey, road design and plan preparation; coordination with the owner; reviewing the plans; checking compliance with the design criteria; and completing all required forms and documents in support of the plan package. Design tools used for this project included MicroStation.
03/17 - 08/19	H.009633 LA 67: EBR P/L to Eight Miles North of EB, LADOTD, East Feliciana Parish, LA (District 61). Project Manager responsible for the overall supervision of engineers performing the survey, road design and plan preparation; coordination with the owner; reviewing the plans; checking compliance with the design criteria; and completing all required forms and documents in support of the plan package. Design tools used for this project included MicroStation.

STAFF EXPERIENCE

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
11/18 - 04/22	LADOTD, H.011137 I-12 LA 21 to US 190, St. Tammany Parish, LA: Project Principal responsible for assisting and overseeing portions of the horizontal and vertical alignment design, drainage design, and sequence of construction with minimum temporary traffic control layout and striping according to LADOTD specifications, standards and design criteria. Additional responsibilities include standard PM duties including coordination, QC of plans and design, project coordination, and scheduling.
06/15 - 09/23	LADOTD, H.011781 LA 675 & LA 87 Improvements, Iberia Parish, LA: Project Manager responsible for the overall supervision of engineers performing the survey, road design and plan preparation; coordination with the owner; reviewing the plans; checking compliance with the design criteria; and completing all required forms and documents in support of the plan package. Design tools used for this project included MicroStation, Excel, and HYDRWIN.
10/18 - 03/20	LADOTD, H.012304.5 LCG Road Overlay Program, Lafayette Parish, LA: Project Manager responsible for field surveying and capturing topographic features and measuring CL stationing. Duties also include plan development, determining quantities and pay items according to LADOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.
10/18 - 12/19	LADOTD, H.012861 Prejean Road, Lafayette Parish, LA: Project Manager responsible for field surveying and capturing topographic features and measuring CL stationing. Duties also include plan development, determining quantities and pay items according to LADOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.
01/23- Ongoing	LADOTD, H.015052 I-20: Widening/Ovrly (Vancil Rd-LA 34), Ouachita Parish, LA: Project Principal responsible for ensuring the project is receiving adequate resources to maintain project schedules and ensuring proper QA/QC procedures are being followed.
10/16 - 09/18	LADOTD, H.009508 LA 2: Caney Creek Bridge to Webster P/L - Pavement Preservation Program, Bossier Parish, LA: Project Manager responsible for the overall supervision of engineers performing the survey, road design and plan preparation; coordination with the owner; reviewing the plans; checking compliance with the design criteria; and completing all required forms and documents in support of the plan package. Design tools used for this project included MicroStation.
06/13 - 04/19	City of New Orleans, Village De L'est Neighborhood, New Orleans, LA: Project Manager responsible for the roadway scoping, pavement rehabilitation design, plan preparation, construction administration, and construction resident inspection for urban local roadways. The scoping phase includes a Project Scope Report based on the results of pavement damage inspection review and assessment and its applicable rehabilitation recommendations. The scoping report includes scoping plans, pavement rehabilitation quantities, pavement damage inspection photos, as well as a written scoping report. Preliminary plan scope of work includes Milling and Asphaltic Concrete (AC) Overlay, AC patching, Portland Cement Concrete Patching, Composite Pavement Patching, driveway repairs, sidewalk repairs, waterline repairs, utility adjustments, and sanitary sewer repairs.
01/17 - 06/18	St. Tammany Parish Government, Bootlegger Road Mill and Overlay and Bootlegger Road Bridge Design, St. Tammany Parish, LA: Project Principal responsible for the right of way mapping, soil analysis, traffic data inventory, feasibility study, conceptual engineering design, opinion of construction cost, preliminary wetland assessment, and Corps of Engineers (USACE) jurisdictional determination for the mill & overlay and bridge design along a three-mile segment of Bootlegger Road located in Covington.

16. STAFF EXPERIENCE:

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Firm employed by	Stanley Consultants, Inc.		
Name	Adam Fields, PE	Years of relevant experience with this employer	7
Title	Roadway	Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization	BS / 2005 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 35614 / LA / 09/30/2026		
Year registered	2010	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Adam is experienced in design for local roads, highways and roundabouts in accordance with LADOTD standards and specifications. His experience has included project/task management, roadway alignment studies; development of horizontal and vertical geometrics; typical sections; intersection details; roadway drainage calculations, earthwork design; development of traffic control and staging plans, roadside safety features and development of quantities, technical specifications, and construction cost estimates. He is skilled in development of three-dimensional roadway models and roadway design utilizing MicroStation, AutoCAD, Civil 3D, InRoads and OpenRoads software. Adam has his TCT and TCS certifications. Meets MPR #8		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
10/18 - 04/22	LADOTD, H.010960 LA 30 Roundabouts at Tanger & I-10, Ascension Parish, LA (District 61). Civil Engineer responsible for providing oversight for all necessary engineering and related services required for the design of four multi-lane roundabouts along LA 30 at the heavily traversed commercial interchange at I-10 in Gonzales, LA. Adam also provided quality assurance (QA) of typical sections, pedestrian and bicycle design, roadway geometrics, roundabout geometrics, drainage design, and driveway details for this project.
10/18 - 02/20	LADOTD, H.013191 LA 1: Iberville P/L - Port Allen Canal B, West Baton Rouge Parish, LA (District 61). Engineer responsible for a patch, mill and overlay pavement preservation project along LA 1 in West Baton Rouge and Iberville Parishes, LA. Duties include generating typical sections, superelevation correction tables, quantity tables for the patching, milling and overlay of asphalt pavement, concrete patching, pavement markings, guard rail design, ADA ramp design.
10/18 - 01/21	LADOTD, H.012964 US 61: Bluebonnet Blvd to S. End US 190, East Baton Rouge Parish, LA (District 61). Engineer responsible for a patch, mill and overlay pavement preservation project along US 61 in East Baton Rouge Parish, LA. Duties include generating typical sections, superelevation correction tables, quantity tables for the patching, milling and overlay of asphalt pavement, concrete patching, pavement markings, guard rail design, ADA ramp design.
10/18 - 04/22	LADOTD, H.011137 I-12: LA 1077 to LA 21, St. Tammany Parish, LA: Design Lead responsible for horizontal and vertical alignment, typical sections, sequence of construction with minimum temporary traffic control layout and striping according to LADOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.

STAFF EXPERIENCE

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
03/19 - 03/20	LADOTD, H.013866 I-12: LA 21 to US 190, St. Tammany Parish, LA: Design Lead responsible for horizontal and vertical alignment, typical sections, sequence of construction with minimum temporary traffic control layout and striping according to LADOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.
10/18 - 03/22	LADOTD, H.011781 LA 675 and LA 87 Improvements in New Iberia Pavement Preservation Program, Iberia Parish, LA: Design Lead responsible for plan development, drainage design, determining quantities and pay items according to LADOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads, HYDRWIN drainage modeling software and Microsoft Excel.
05/24 - Ongoing	LADOTD, H.014041 Inter. Imp. on LA 92 @ LA 733 & Gallet Rd., Lafayette Parish, LA: Project Manager for the overall IDIQ contract for parishes in LADOTD's District 03. Task Order duties for a roundabout intersection improvement project on LA 92 at LA 733 and realignment of curves on LA 92 at Gallet Road include conducting a pre-design ride of the proposed project, leading manhour proposals and fee estimation for design, holding kickoff meetings and conducting overall coordination between District staff and subconsultants. Tasks are design oversight and QAQC, scheduling, invoicing, and ensuring timely submittal milestone deliveries.
10/18 - 11/22	LADOTD, H.011909 US 171 at Boone St. Roundabout, Vernon Parish, LA: Civil Engineer responsible for providing oversight for all necessary engineering and related services required for the design of a multi-lane roundabout along US 171. This project involves engineering and related services to develop construction plans for a multi-lane (Hybrid) roundabout at the intersection of US 171 and Boone Street to allow for improvements to safety and efficiency, while utilizing best access management practices along the corridor. Adam also provided quality assurance (QA) of typical sections, roadway geometrics, roundabout geometrics, drainage design, and driveway details for this project.
10/18 - 03/20	LADOTD, H.012304 LCG Road Overlay Program, Lafayette Parish, LA: Design Lead responsible for field surveying and capturing topographic features and measuring CL stationing. Duties also include plan development, determining quantities and pay items according to LADOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.
09/20 - 06/22	LADOTD, H.012863 Cypress Island Highway Pavement Preservation, Lafayette, LA: Project Engineer for the pavement preservation task order to mill, overlay and patch Cypress Island Highway from LA 353 to LA 31 in St. Martinville, LA. Task Order duties include walking pavement preservation-style survey, design of typical sections including superelevation correction, quantities, striping, guard rail design and ensuring timely submittal milestone deliverables.
10/18 - 12/19	LADOTD, H.012861 Prejean Road Pavement Preservation, Lafayette Parish, LA: Design Lead responsible for field surveying and capturing topographic features and measuring CL stationing. Duties also include plan development, determining quantities and pay items according to LADOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.

16. STAFF EXPERIENCE:

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Firm employed by	Stanley Consultants, Inc.		
Name	Brady Richard, PE	Years of relevant experience with this employer	14
Title	Roadway	Years of relevant experience with other employer(s)	23
Degree(s) / Years / Specialization	BS / 2002 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 35600 / LA / 09/30/2026		
Year registered	2010	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Brady Richards has over 20 years of experience as a professional engineer and has established a strong track record of delivering complex projects across the water and transportation sectors. Throughout his career, he has demonstrated exceptional skills in project management, design, and project delivery, ensuring timely and within-budget completion of diverse projects. Brady's expertise spans various aspects of transportation engineering, and he has successfully managed multidisciplinary teams to achieve project goals. By combining technical expertise with strong leadership and communication skills, Brady has consistently driven successful project outcomes and contributed to the advancement of 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).
03/08 – 12/10	Louisiana Department of Transportation and Development, Elysian Fields, New Orleans, LA: Civil engineer responsible for the assessment of the condition of the existing roadway section including roadway, drainage, and sidewalks. Tasks include evaluating condition of both asphalt and Portland cement concrete pavement condition, documenting visible utilities, designing required drainage improvements, and ensuring the roadway is restored to its original condition to relevant standards and regulations. Oversaw the preparation of construction documents, including plans, specifications, and cost estimates, to guide the rehabilitation work.
04/17 – 01/25	Louisiana Department of Transportation and Development, LA 171 at Boone, Leesville, LA: Civil engineer responsible for designing the circular intersection to ensure safe and efficient traffic flow, which includes size, layout, and traffic attenuation features. Designed the drainage system to handle stormwater runoff, ensuring the roundabout does not become a flooding hazard during design period rain events according to LADOTD's HYDRWIN software. Coordinated with other stakeholders to implement the design, addressing concerns such as safety, landscaping, and signage.
03/08 – 12/10	Louisiana Department of Transportation and Development, Leon Simon Road, New Orleans, LA: Civil engineer responsible for overseeing surveys, design, and plan preparation for the repair of 7.5 miles of overlays to urban roadways. Tasks include verification of project damage reports, design of various types of repair activities including milling, asphalt overlay, asphalt patching, concrete repairs, striping, ADA ramps, sidewalk repairs, catch basins, utility manholes, as well as preparing construction plans and specifications.
06/13 – 03/19	City of New Orleans, New Orleans Village De L'est Neighborhood, New Orleans, LA: Civil engineer responsible for roadway scoping and pavement rehabilitation design, preparing construction documents, cost estimation, and administering construction for urban local roadways. Tasks include assessing pavement damage, developing rehabilitation recommendations, and creating a comprehensive Project Scope Report with detailed plans and quantities. Scope of work for the project included various repairs such as milling and asphaltic concrete overlay, patching, driveway and sidewalk repairs, and utility adjustments.

16. STAFF EXPERIENCE:

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Firm employed by	Stanley Consultants, Inc.		
Name	Jesse Tisdale, PE	Years of relevant experience with this employer	7
Title	Roadway	Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization	BS / 2012 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 40972 / LA / 03/31/2025		
Year registered	2016	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Jesse Tisdale has been responsible for the design and/or project management of roadway projects such as: roadway reconstruction, intersection safety projects, turn lane additions, corridor safety projects, and roundabout projects throughout Louisiana. He has completed 14 projects for LADOTD. Jesse is proficient in both design and management and is capable of fulfilling both roles simultaneously as projects warrant. His design expertise is with roadway/highway design, drainage, environmental permitting, construction sequencing, earthworks and estimating. Jesse has his TCT and TCS certifications.		

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).
11/18 - 04/22	Louisiana DOTD (LADOTD), H.010960 LA 30 Roundabouts at Tanger & I-10, Ascension Parish, LA (District 61). PM/Lead Design Engineer responsible for providing oversight for all necessary engineering and related services required for the design of four multi-lane roundabouts along LA 30 at the heavily traversed commercial interchange at I-10 in Gonzales, LA. Mr. Tisdale also provided QA of typical sections, pedestrian and bicycle design, roadway geometrics, roundabout geometrics, drainage design, and driveway details for this project.
11/23 - Ongoing	LADOTD, H.012633 LA 1088 Forest Brook Blvd Roundabout, St. Tammany Parish, LA: QA/QC controller on this IDIQ, he is responsible for the quality and completeness of the design and construction plans. Additionally, he is assisting in managing the project as the overall IDIQ PM, while others manage the individual projects.
08/24 - Ongoing	LADOTD, H.015569.5 LA 44: I-10 Roundabouts, Ascension Parish, LA (District 61). Project Manager responsible for providing oversight for all necessary engineering and related services required for the design of three multi-lane roundabouts along the LA 44 corridor at the heavily traversed I-10 interchanges in Gonzales, LA.
01/23 - Ongoing	LADOTD, H.005734.5 LA 447 Roundabouts, Livingston Parish, LA: Working as a subconsultant, Jesse served as the Stanley Consultants project manager responsible for overall project oversight, adherence to scope of work, budget, and schedule requirements, as well as QC/QA activities.
12/17 - 03/23	LADOTD, H.011137 I-12 LA 21 to US 190, St. Tammany Parish, LA: Project Manager responsible for assisting and overseeing the horizontal and vertical alignment design, drainage design, and sequence of construction with minimum temporary traffic control layout and striping according to LADOTD specifications, standards and design criteria. His additional responsibilities include standard PM duties including coordination, QC of plans and design, project coordination and scheduling. Design tools used for this project included MicroStation, InRoads, CADConform, Bentley InRoads, LADOTD HydrWIN and Microsoft Project.

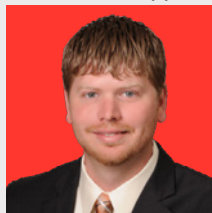
STAFF EXPERIENCE

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
05/24 - Ongoing	LADOTD, H.014041 Inter. Imp. on LA 92 @ LA 733 & Gallet Rd., Lafayette Parish, LA: QA/QC Lead Engineer responsible for reviewing work products for technical adequacy and completeness, verifying preparation and checking procedures have been followed, reviewing Quality Control Checklists as a discipline approver at each designated quality “checkpoint”, and reviewing design criteria documents for compliance with LADOTD and AASHTO standards. Also responsible for providing design guidance to the project team as a subject matter expert.
04/17 - 11/22	LADOTD, H.011909 US 171 at Boone St. Roundabout, Vernon Parish, LA: Project Manager responsible for assisting design of a three-legged multi-lane roundabout and multiple intersection improvements along US 171. Tasks also include, budgeting, project cost estimation, utility coordination, and QA for the design and construction plans. This project involves engineering and related services to develop construction plans for a multi-lane (Hybrid) roundabout at the intersection of US 171 and Boone Street to allow for improvements to safety and efficiency, while utilizing best access management practices along the corridor.
04/23 - Ongoing	LADOTD, H.013941 LA 724: Roundabout at Landry Rd, Lafayette Parish, LA: QA/QC controller on this IDIQ, he is responsible for the quality and completeness of the design and construction plans. Additionally, he is the PM for this project providing overall project oversight, budget controls, and coordination with LADOTD.
01/23 - Ongoing	LADOTD, H.015052 I-20: Widening/Ovrly (Vancil Rd-LA 34), Ouachita Parish, LA: Project Manager responsible for adherence to scope of work, budget, and schedule requirements. Additional responsibilities include QC/QA and subconsultant coordination.
10/13 - 04/15	LADOTD, US 11 @ Cleo Road Roundabout, St. Tammany Parish, LA: Lead Designer responsible for the design and plan development of a single lane roundabout at US 11 and Cleo Rd. This roundabout design included special design details for the WB-67 design vehicle due to two distribution warehouses located on Cleo Rd. This project additionally involved the design of a 4th leg that is to be built at a later date when private development north of the roundabout is complete.
02/21 - 03/23	MOVEBR, Lee Drive Widening; East Baton Rouge Parish, LA: Serving as Stanley Consultants' PM and Lead Designer. Stanley Consultants is a sub-consultant on this project responsible for all road design between Highland Road and the Bayou Duplantier Bridge. Jesse is responsible for the oversight of all roadway design for the portion the project that has been assigned to Stanley Consultants. This project involves developing the limited Lee Drive corridor into a widened footprint with a divided roadway, bike lanes, and pedestrian facilities.
09/19 - 03/23	LADOTD, Stone Road to Powell Drive Extension, St. Tammany Parish, LA: PM for engineering design services for a new greenfield connector roadway between Ben Thomas Road and Powell Drive as well as widening and drainage improvements to an existing section of Powell Drive. The purpose of this project is to accommodate industrial traffic accessing and egressing Interstate 12 to the north by providing improved system linkage with a new north-south connector roadway and improving an existing roadway within the project limits.

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Firm employed by	Lazenby & Associates, Inc.		
Name	Ronald J. Riggin II, PE, PLS	Years of relevant experience with this employer	12
Title	Surveying	Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization	BS / 2006 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 36016 / LA / 03/31/2027; PLS 0005119/ LA / 03/31/2027		
Year registered	2011	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Ronald Riggin is familiar with the requirements of the LDOTD Location and Survey Section for conducting topographic surveys, property surveys and hydrographic surveys. Mr. Riggin is responsible for quality control of all survey data obtained by survey crews in conducting topographic surveys, property surveys, and hydrographic surveys. Mr. Riggin has over five years of experience in conducting and performing topographic surveys, property surveys, and developing right-of-way maps. Mr. Riggin has successfully completed following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2024 (refresher); LA Specific Traffic Control Supervisor Course, 2024 (refresher); ATSSA Course for Traffic Flagging, 2024. Meets MPR #5		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
07/14 – 06/16	Retainer Contract No. 4400003471 – Retainer Contract for Professional Surveying Services – Statewide, LA: Project Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys on 14 Task Orders for an accumulated value of \$436,473.00 for LDOTD State Projects at various locations in northern Louisiana.
10/14 – 06/17	Retainer Contract No. 4400004541 – Retainer Contract for Professional Surveying Services – Statewide, LA: Project Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys on eight Task Orders for an accumulated value of \$811,513.00 for LDOTD State Projects at various locations in Louisiana.
04/13 – 06/16	Project Surveyor for Contract No. 4400002862, S.P. # H.008768 – Hydrographic Survey Monitoring of Existing Bridges – Statewide (North Region), LA: Performed hydrographic surveys on 14 Task Orders for monitoring scour at major bridge sites in north Louisiana. Duties included supervision of survey crews, analysis of survey data, and the development of required hydrographic survey reports at the various bridge locations.
04/14 – Ongoing	Professional Surveyor of Record for developing topographic surveys and Property Surveys for private clients on residential developments and commercial developments in Ouachita Parish and northern Louisiana: Professional Engineer of Record for the overall design of residential and commercial developments.

STAFF EXPERIENCE

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
03/15 – 08/17	State Project No. H.011742:Ole Highway 15 Improvements, Ouachita Parish, LA: Mr. Riggin performed a topographic survey of a 2.2-mile section of Ole Hwy 15 from US 80 to LA 616 and then was the project engineer responsible for roadway design.This project consisted of pavement reconstruction under the LADOTD Urban Systems program. (Note that we typically perform a full topo survey, within existing right-of-way, on pavement preservation projects on Ouachita Parish roadways.This is not typically done for LDOTD on-system pavement preservation projects.)
05/16 – 02/18	Project Surveyor on the Steep Bayou Sewer Main project of the West Ouachita Sewerage District No. 5, LA: Mr. Riggin performed a topographic survey of the alignment for a sewer main trunk line from I-20 to New Natchitoches Road along Steep Bayou in Ouachita Parish.He also conducted a boundary survey of the right-of-way parcels along this route and developed the necessary ROW maps and legal descriptions.
09/18 – 01/23	Retainer Contract No. 4400012668 – Retainer Contract for Professional Surveying Services – Statewide (North Region), LA: Performed hydrographic surveys on major bridge structures in northern Louisiana for monitoring channel scour.Duties included supervision of field crews, analysis of survey data and development of required hydrographic survey reports at the various bridge locations for submission to the LDOTD.
06/18 – 09/18	State Project No. H.013776, Well Road, Ouachita Parish, LA: Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design.This project consisted of a mill, patch, and overlay of a 0.8-mile segment of Well Road from LA 838 to I-20 under the LADOTD Urban Systems program.
08/18 – 11/18	State Project No. H.013798:Harrell Road, Ouachita Parish, LA: Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design.This project consisted of a mill, patch, and overlay of a 1.8-mile segment of roadway from US 80 to LA 616 under the LADOTD Urban Systems program.
12/18 – 02/19	State Project No. H.013802:Garrett Road, Ouachita Parish, LA: Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design.This project consisted of a mill, patch, and overlay of a 0.4-mile segment of roadway from LA 15 to Austin Street under the LADOTD Urban Systems program.
01/19 – 04/19	State Project No. H.013804:Wall Williams Road, Ouachita Parish, LA: Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design.This project consisted of segments of mill, patch, and overlay and segments of reconstruction of a 1.6-mile segment of roadway from Good Hope Road to LA 143 under the LADOTD Urban Systems program.
04/19 – 07/19	State Project No. H.014348:Lee Avenue, City of Monroe, Ouachita Parish, LA: Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design.This project consisted of a mill, patch, and overlay of a 1.2-mile segment of roadway from Jackson Street to Standifer Avenue under the LADOTD Urban Systems program.
07/19 – 09/19	State Project No. H.013796:Tanglewood Drive, Ouachita Parish, LA: Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design.This project consisted of roadway reconstruction a 0.3-mile segment of roadway from LA 15 to Dellwood Drive under the LADOTD Urban Systems program.

16. STAFF EXPERIENCE:

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Firm employed by	Lazenby & Associates, Inc.		
Name	Kevin E. Crosby, PE, PLS	Years of relevant experience with this employer	31.5
Title	Surveyor	Years of relevant experience with other employer(s)	1.5
Degree(s) / Years / Specialization	BS / 1992 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 26799 / LA / 03/31/2027; PLS 0004901 / LA / 03/31/2027		
Year registered	1996	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Kevin Crosby has over 30 years of experience in developing roadway plans on both LDOTD and local roadway projects. Mr. Crosby is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Mr. Crosby has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2024 (refresher); LA Specific Traffic Control Supervisor Course, 2024 (refresher).		

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).		
05/08 – 06/15	State Project No. H.002622: Arkansas Road (LA 616), Ouachita Parish, LA: Mr. Crosby served as the surveyor in responsible charge of the topographic surveying for this project. He also provided technical guidance on the drainage design for the project.		
12/10 – 10/12	State Project No. H.003854: Bossier North-South Corridor Roadway and Bridges (I-220/Swan Lake Road Interchange to Crouch Road), Bossier Parish, LA: Mr. Crosby served as the surveyor in responsible charge of the topographic surveying for this project.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/12 – Ongoing	Ouachita Parish Police Jury Road Program, LA: Mr. Crosby serves as the Ouachita Parish Engineer. His duties consist of evaluating parish roadways and developing a pavement preservation strategy to preserve and extend the life of Ouachita Parish roadways, some of which are designed and constructed under the LDOTD Urban Systems program. Mr. Crosby also reviews all pavement preservation construction plans that are prepared for the Ouachita Parish Police Jury. Some of the Ouachita Parish Urban System projects that Mr. Crosby has provided professional services, including serving as the project engineer during construction, include the following: ▪ State Project No. H.011743 – Forty Oaks Farm Road (Mill, Patch and Overlay with Bridge Replacement) ▪ State Project No. H.011747 – Edwards Road (Reconstruction) ▪ State Project No. H.013796 – Tanglewood Drive (Reconstruction) ▪ State Project No. H.013802 – Garrett Road (Mill, Patch and Overlay) ▪ State Project No. H.013803 – Richwood Road No. 2 (Mill, Patch and Overlay) ▪ State Project No. H.013804 – Wall Williams Road (Mill, Patch and Overlay and includes a segment of Reconstruction) ▪ State Project No. H.013805 – Finks Hide-A-Way Road (Mill, Patch and Overlay and includes a segment of Reconstruction)
09/17 – Ongoing	State Project Nos. H.004774 & H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish, LA: - Mr. Crosby serves as a senior engineer, providing quality assurance reviews for both Preliminary and Final Plans.
01/17 – 01/20	Retainer Contract No. 4400009384 – Retainer Contract for Professional Surveying Services – Statewide, LA: Supervising Professional responsible for performing topographic surveys and property surveys on 14 Task Orders for an accumulated value of \$989,478 for LDOTD State Projects at various locations in Louisiana.
10/19 – 02/24	Retainer Contract No. 4400015326 – Retainer Contract for Professional Surveying Services – Statewide, LA: Supervising Professional responsible for performing topographic surveys and property surveys at various locations in Louisiana. A total of 17 Task Orders were issued for an accumulated value of \$1,858,496.
01/20 – Ongoing	Retainer Contract No. 4400017710 – Retainer Contract for Professional Surveying Services – Statewide, LA: Supervising Professional responsible for performing topographic surveys and property surveys at various locations in Louisiana. To date, two Task Order has been completed for a value of \$492,689.

16. STAFF EXPERIENCE:

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Firm employed by	Lazenby & Associates, Inc.		
Name	Paul D. Fryer, PE, PLS	Years of relevant experience with this employer	38
Title	Surveyor	Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization	BS / 1984 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 23426 / LA / 09/30/2027; PLS 0004806/ LA / 09/30/2027		
Year registered	1987	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Mr. Fryer has over 38 years of experience in planning, surveying, designing, inspecting, and construction administration of transportation facilities. Mr. Fryer is familiar with LDOTD and AASHTO design standards for roadway design and plans development. Mr. Fryer has performed professional engineering and land surveying services on a variety of projects involving line and grade studies, major investment studies, location and Stage "0" studies as well as topographic surveys, property surveys, development of ROW maps. Mr. Fryer also has extensive experience in developing preliminary and final roadway plans on a variety of LDOTD projects, and has served in a QA-QC role on many different projects throughout his career. Mr. Fryer is familiar with the LDOTD Location and Survey Manual for conducting topographic surveys, property surveys and developing right-of-way maps. He has overseen the development of right-of-way maps for various LDOTD projects for over 20 years. Mr. Fryer has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2024 (refresher); LA Specific Traffic Control Supervisor Course, 2024 (refresher); National Environmental Policy Act (NEPA) and Transportation Decision Making.		

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).
04/95 – 03/00	State Project No. 043-01-0017: Dugdemona River and Relief Bridges, Jackson Parish, LA: Mr. Fryer prepared preliminary and final roadway plans. This project consisted of the construction of two voided slab span bridges (main bridge and relief structure) and roadway approaches on new alignment.
11/95 – 06/00	State Project No. 172-01-0011: Bayou DeGlaize Bridge, Morehouse Parish, LA: Mr. Fryer prepared preliminary and final roadway and final roadway plans. This project consisted of the construction of a slab span bridge and roadway approaches on new alignment.
01/97 – 10/99	State Project No. 026-05-0017: LA 15 (Sicily Island – Jct. LA 913), Catahoula Parish, LA: Mr. Fryer was responsible for preparation of preliminary and final roadway and bridge plans. This project consisted of widening a 4.5-mile segment of LA 15 to four lanes as part of the LA TIMED Program.

STAFF EXPERIENCE

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/04 – 05/07	State Project No. 700-30-0061: US 167, Lillie to Arkansas State Line, Union Parish, LA: Mr. Fryer served as project manager, roadway designer, and surveyor responsible for development of final roadway plans, and right-of-way maps. This project consisted of the conversion of a 7.2-mile section of a rural two-lane arterial route to a four-lane divided arterial route under the LA TIMED Program.
10/07 – 04/16	State Project No. H.002622: Arkansas Road (LA 616), Ouachita Parish, LA: Mr. Fryer served as project manager, was responsible for QA-QC of the plans, and was surveyor in charge of right-of-way maps. This project consisted of widening a 3.2-mile portion of LA 616 from a two-lane section to a five-lane urban roadway, and included four multi-lane roundabouts.
07/10 – 05/18	State Project No. H.003854: Bossier North-South Corridor Roadway and Bridges (I-220/Swan Lake Road Interchange to Crouch Road), Bossier Parish, LA: Mr. Fryer served as project manager, was responsible for QA-QC of the plans, and was the surveyor in charge of right-of-way maps. This project consisted of reconstruction and realignment of a 3.7-mile section of Swan Lake Road and construction of a new 4.2-mile roadway connecting Swan Lake Road and Crouch Road. The southern portion of the project contains an urban three-lane section, while the northern segment is a rural, two-lane roadway. There are three bridge sites on this project.
02/18 - Ongoing	State Project No. H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish, LA: Mr. Fryer serves as project manager, is responsible for QA-QC of the roadway plans, and prepared right-of-way maps for the widening of a section of Garrett Road crossing I-20 and connecting to Kansas Lane north of Millhaven Road and the KCS Railroad track to a four-lane arterial route. This project includes the design of five-multi lane roundabouts as well as interstate highway ramp improvements and frontage road realignments and improvements. Final plans for this project are currently 98% complete.
05/08 – 05/12	State Project No. H.004780.5 – Kansas Lane Connector (Route US 80 to Route US 165) City of Monroe Urban systems, Ouachita Parish, LA: Mr. Fryer served as project manager and surveyor responsible for conducting property surveys, and developing right-of-way maps as a sub-consultant to Denmon Engineering Co., Inc. This project involves construction of a four-lane urban arterial route around the University of Louisiana at Monroe connecting US 80 on the south end and US 165 on the northern end.
11/10 – 05/13	Project Surveyor for Contract No. 4400000685: Retainer Contract for Professional Surveying Services - Statewide, LA: - This retainer contract authorized 23 task orders for topographic surveys, property surveys and ROW maps over a three-year period. Mr. Fryer served as the Project Manager and performed QA/QC for this contract.
03/08 – 04/11	Project Surveyor on Contract No. 4400000638: Retainer Contract for Professional Surveying Services – Statewide, LA: - This retainer contract authorized 15 task orders for topographic surveys, property surveys and ROW maps over a three-year period. Mr. Fryer served as the Project Manager and performed QA/QC for this contract.
11/11 – 01/15	Project Surveyor on Contract No. 4400001328: Retainer Contract For Professional Surveying Services – Statewide, LA: - This retainer contract authorized 25 task orders for topographic surveys, property surveys and ROW maps over a three-year period. Mr. Fryer served as the Project Manager and performed QA/QC for this contract.
03/18 – 03/23	Project Surveyor on Contract No. 4400012667: Retainer Contract For Professional Surveying Services – Statewide, LA: - This retainer contract authorized 25 task orders for topographic surveys, property surveys and ROW maps over a five-year period. Mr. Fryer served as the Project Manager and performed QA/QC for this contract.

16. STAFF EXPERIENCE:

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Firm employed by	Lazenby & Associates, Inc.		
Name	James S. Ellingburg, PE, LSI	Years of relevant experience with this employer	16
Title	Surveyor	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS / 2008 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 37236 / LA / 09/30/2026; LSI 0000814 / LA / 03/31/2026		
Year registered	2012	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 James Ellingburg has over 16 years of experience in developing roadway plans on both LDOTD and local roadway projects. Mr. Ellingburg is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Mr. Ellingburg has assisted in hydraulic analysis and design, as well as roadway design and preparation of roadway plans, on a variety of roadway projects. He has also assisted with the processing of topographic survey data on multiple projects. Mr. Ellingburg has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2024 (refresher); LA Specific Traffic Control Supervisor Course, 2024 (refresher); Designing Streets for Pedestrians and Bicyclists Workshop, 2016; Highway Safety Manual Workshop, 2016; Roundabout Design Workshop, 2013; Traffic Engineering Analysis Process & Report Class Module 1, 2 & 3, 2021; One-Dimensional Modeling of River Encroachments with HEC-RAS Class, 2022.		

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).
05/08 – 06/15	State Project No. H.002622: Arkansas Road (LA 616), Ouachita Parish, LA: Mr. Ellingburg initially served as an engineering technician, checking the topographic survey in the field for accuracy. Mr. Ellingburg then served as a project staff engineer, assisting the project engineer with development of existing drainage maps, drainage design maps, utility adjustments, and developing roadway plans. Mr. Ellingburg also assisted with roundabout designs, and sequence of construction in both Preliminary and Final plan development. This project consisted of widening a 3.2-mile portion of LA 616 from a two-lane section to a five-lane urban roadway, and included four multi-lane roundabouts that required extensive geometric design and graphical grade development in order to meet AASHTO and LDOTD standards and requirements for safety. Once the project was let for construction, Mr. Ellingburg provided construction support on an as-needed basis by answering field questions from the contractor or LDOTD.

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).
12/10 – 10/12	State Project No. H.003854: Bossier North-South Corridor Roadway and Bridges (I-220/Swan Lake Road Interchange to Crouch Road), Bossier Parish, LA: Mr. Ellingburg served as a project staff engineer, working on development of existing drainage maps, design drainage maps, roadway drainage plans, and assisting with roadway and bridge design and plan development for both Preliminary and Final plans. This project consisted of reconstruction and realignment of a 3.7-mile section of Swan Lake Road and construction of a new 4.2-mile roadway connecting Swan Lake Road and Crouch Road. The southern portion of the project contains an urban three-lane section, while the northern segment is a rural, two-lane roadway. There are three bridge sites on the project.
11/11 – 01/12	State Project No. H.004684: El Camino East/West Corridor, Route LA 6, Natchitoches Parish, LA: Mr. Ellingburg served as a project staff engineer, developing existing drainage maps for a LDOTD Topographic Survey.
09/17 – Ongoing	State Project Nos. H.004774 & H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish, LA: Mr. Ellingburg served as a project staff engineer, assisting with generating topographic survey deliverables, developing existing drainage maps for the topographic survey portion of the project. During the design and plan preparation portion of the project, Mr. Ellingburg has performed drainage design, developed design drainage maps, and assisted with design of five multi-lane roundabouts, developing graphical grades and assisting with geometric design and sequence of construction. This urban project includes five multilane roundabouts and interstate ramp modifications that required extensive geometrics and graphical grades in order to meet AASHTO and LDOTD standards and requirements for safety. The final plans are currently 98% complete.
01/17 – Ongoing	Ouachita Parish Police Jury Road Program, Ouachita Parish, LA: Mr. Ellingburg is an integral team member of the Ouachita Parish Police Jury Road Program. His duties consist of evaluating parish roadways and developing pavement preservation construction plans, including processing the topographic surveys, to preserve and extend the life of Ouachita Parish roadways, some of which are designed and constructed under the LDOTD Urban Systems program. Mr. Ellingburg has also served as project engineer during construction, ensuring that the projects are built in accordance with the plans and specifications. Some of the Ouachita Parish Urban System projects that Mr. Ellingburg has provided professional services, including serving as the project engineer during construction, include the following: State Project No. H.011747 – Edwards Road (Reconstruction); State Project No. H.013796 – Tanglewood Drive (Reconstruction); State Project No. H.013802 – Garrett Road (Mill, Patch and Overlay); State Project No. H.013803 – Richwood Road No. 2 (Mill, Patch and Overlay); State Project No. H.013804 – Wall Williams Road (Mill, Patch and Overlay and includes a segment of Reconstruction); State Project No. H.013805 – Finks Hide-A-Way Road (Mill, Patch and Overlay and includes a segment of Reconstruction)
11/22 – Ongoing	State Project No. H.007289: Kansas Ln Ext (Old Sterl.-US165) Phase 1, Ouachita Parish, LA: Mr. Ellingburg is serving as the project engineer during construction of this project, ensuring that the project is built in accordance with the plans and specifications, coordinating testing to ensure compliance with LDOTD Material Sampling Manual, and coordinating construction activities with utility companies and railroad personnel to keep the project on schedule.

16. STAFF EXPERIENCE:

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Firm employed by	Lazenby & Associates, Inc.		
Name	Noah J. Sampognaro, PE, LSI	Years of relevant experience with this employer	4
Title	Surveyor	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS / 2020 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 49838 / LA / 09/30/2027; LSI 0000808 / LA / 03/31/2026		
Year registered	2025	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Noah Sampognaro has four years of experience in performing drainage design, hydraulic analysis, roadway design, and preparation of roadway plans on a variety of LDOTD and local roadway projects. Mr. Sampognaro passed his P.E. Civil Transportation exam in October 2022 and is currently enrolled in the University of Wyoming Cadastral Surveying Certificate Program. Mr. Sampognaro is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Mr. Sampognaro also assists in processing topographic survey and mobile LIDAR data, creating survey centerline alignments (ALG's) using horizontal regression analysis, developing digital terrain models (DTM's), and producing existing drainage maps for LDOTD topographic surveys. Mr. Sampognaro has successfully completed the following continuing education classes, workshops, and seminars: TOPO Dot User Conference, 2022; One-Dimensional Modeling of River Encroachments with HEC-RAS Class, 2022; LA Specific Traffic Control Technician Course, 2022; LA Specific Traffic Control Supervision Course, 2022.		

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).
08/21 – 11/22	North Frontage Road – Phase 2, Ouachita Parish, LA: Mr. Sampognaro assisted in the development of roadway plans, including processing topographic survey data, performing drainage design calculations and developing existing and design drainage maps. Mr. Sampognaro also assisted with quantity calculations and preparation of a construction cost estimate. This project, which was prepared for the City of Monroe I-20 Economic Development District, consists of a 0.6-mile frontage road on new alignment north of Interstate 20, east of Garrett Road, in Monroe, Louisiana. Mr. Sampognaro also assisted in construction support activities, including, but not limited to, site visits to address contractor RFIs, assisting in processing pay estimates and change orders, and assisting with the final inspection and preparation of a punch list.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/21 – 06/22	State Contract No. 4400015236: Retainer Contract for Professional Surveying Services – Statewide, LA: This retainer contract consisted of fifteen task orders to perform topographic surveys for various projects across Louisiana. Mr. Sampognaro assisted in post-processing topographic survey data which was collected with the use of GPS receivers, robotic total stations, and SX-10 terrestrial scanners, as well as using TOPO Dot software to extract data collected with a terrestrial mobile lidar scanner. His duties also included creating survey centerline alignments (ALG's) and associated reports using horizontal regression analysis, developing existing digital terrain models (DTMs), and producing existing drainage maps. Some of the task orders on which Mr. Sampognaro has assisted include the following: State Project No. H.011706.5 – BNSF Several RR Xings (Baldwin) in St. Mary Parish (01/2021-08/2021); State Project No. H.012032.5 – LA 2: Bridges Near Mer Rouge, Route LA 2 in Morehouse and West Carroll Parishes (02/2021-04/2021); State Project No. H.008220.5 – LA 406 @ F.E. Hebert Roundabout, Route LA 406 in Plaquemines Parish (03/2021-07/2021); State Project No. H.012541.5 – LA 594: Overpass I-20, Route 594 in Ouachita Parish (01/2022-06/2022); State Project No. H.014646.5 – I-20: US 165 – E. of Garrett Road, Route I-20 in Ouachita Parish (08/2021-01/2022)
01/22 – 1/23	State Project No. H.015052: I-20: I-20 Widening/Overlay (Vancil Rd to LA 34), Ouachita Parish, LA: This project consisted of performing a complete topographic survey along I-20 from the Well Road Interchange to the LA 34 (Stella Mill St) Interchange in Ouachita Parish. It also included portions of Well Road, Downing Pines Road, Thomas Road, and LA 34 (Stella Mill St) for a total cumulative length of 25,625 ft (4.85 miles). Data was collected using GPS receivers, robotic total stations, SX-10 terrestrial scanners, and a terrestrial mobile LIDAR scanner. Mr. Sampognaro assisted in post processing the survey data, extracting mobile LIDAR data using TOPO Dot software, and creating the existing drainage map. He also assisted in quality control measures by comparing field data collected by the survey crew to LDOTD as-built drawings.
01/21 – Ongoing	State Project No. H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish, LA: Mr. Sampognaro has assisted with quantity calculations during final plan development, as well as assisting with preparation of a construction cost estimate. This urban project includes five multilane roundabouts and interstate ramp modifications. The final plans are currently 98% complete.
01/21 – Ongoing	Ouachita Parish Police Jury Road Program, Ouachita Parish, LA: Mr. Sampognaro's duties consist of developing pavement preservation roadway plans, including processing topographic survey data, design of cross drain structures, superelevation correction calculations, and quantity calculations, to preserve and extend the life of Ouachita Parish roadways, some of which are constructed under the LADOTD Urban Systems program. Some of the Ouachita Parish Urban Systems projects on which Mr. Sampognaro has assisted include the following: State Project No. H.013805 – Finks Hide-A-Way Road (Mill, Patch and Overlay and includes a segment of Reconstruction); State Project No. H.014397 – Rowland Road (Mill, Patch and Overlay); State Project No. H.014398 – Caples Road (Mill, Patch and Overlay)
06/21 - Ongoing	City of Monroe, City Street Improvements, Monroe, LA: Mr. Sampognaro has assisted with City of Monroe roadways designed under the LDOTD Urban Systems program. His duties consist of developing pavement preservation roadway plans, including processing topographic survey data, hydraulic design, quantity calculations, and construction cost estimates. Some of the City of Monroe Urban Systems projects on which Mr. Sampognaro has assisted include the following: State Project No. H.014347 – South Grand Street (Mill, Patch and Overlay); State Project No. H.014348 – Lee Avenue (Mill, Patch and Overlay) Mr. Sampognaro is currently assisting with construction support activities by field marking and verifying required areas of pavement patching.

16. STAFF EXPERIENCE:

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Firm employed by	Lazenby & Associates, Inc.		
Name	Randy C. Hammons, PE	Years of relevant experience with this employer	23
Title	Surveyor	Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization	BS / 1993 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 29504 / LA / 09/30/202		
Year registered	2001	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Randy Hammons has in excess of 25 years of experience in planning and designing highways and bridges on transportation projects in Louisiana, Arkansas, Mississippi, and Tennessee. Mr. Hammons has approximately 16 years of experience supervising and processing topographic survey data, including establishing survey control, calculating existing alignments, creating digital terrain models (DTM's), and developing existing drainage maps for LDOTD projects. Mr. Hammons highway bridge design experience has included the rehabilitation and structural design of superstructures composed of prestressed girder and slab spans, and substructures consisting of pile bents, multi-column bents, and spread footings. Experience has included use of the Bentley's ConSpan and RCPier for designing prestressed girders and concrete substructures. Mr. Hammons has successfully completed the following continuing education classes, workshops, and seminars: LA Specific Traffic Control Technician Course, 2024 (refresher); LA Specific Traffic Control Supervisor Course, 2024 (refresher).		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/17 - 01/20	Project Engineer processing topographic survey field data and developing topographic survey maps and images for State Contract No. 4400009384: Retainer Contract for Professional Surveying Services – Statewide, LA: This retainer contract contained six task orders to perform topographic surveys for various projects at a cost of \$989,478 over a three-year time frame. Some of the task orders for Topographic Surveys were as follows: State Project No. H.003370.5 – I-220/I-20 Interchange and BAFB Access, Route I-220 & I-20 in Bossier Parish (04/2018 – 10/2018). Topographic survey of the proposed I-220/I-20 Interchange and BAFB Access roadway in Bossier Parish using GPS receivers, robotic total stations, SX-10 terrestrial scanner, and mobile lidar. State Project No. H.007300.5 & H004774.5 – Kansas Lane – Garrett Road Connector and I-20 Interchange in Ouachita Parish (3/2018 – 9/2018) Topographic Survey of the proposed Kansas Lane - Garrett Road Connector and I-20 Interchange using GPS receivers, robotic total stations and a SX-10 terrestrial scanner.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
10/19 – 03/23	State Project No. H.012036.5 – US 80: Boeuf River Bridge in Richland Parish (03/2019 – 6/2019). Topographic survey for a bridge replacement project at the US 80 crossing of the Boeuf River using GPS receivers, robotic total stations and a SX-10 terrestrial scanner. Project Engineer processing topographic survey field data and developing topographic survey maps and images for State Contract No. 4400015236: Retainer Contract for Professional Surveying Services – Statewide, LA: This retainer contract has contained fifteen task orders to perform topographic surveys for various projects at a cost of \$1,825,144 over a five-year time frame. Some of the task orders for Topographic Surveys were as follows: State Project No. H.012030 – US 371: KCS RR Overpass HBI, Route LA 159 and US 371 in Webster Parish (10/2020-04/2021). Topographic survey of two bridge replacements over KCS RR using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridges. State Project No. H.012032.5 – LA 2: Bridges Near Mer Rouge, Route LA 2 in Morehouse and West Carroll Parishes (02/2021-04/2021). Topographic survey of two bridge replacement sites using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridges. State Project No. H.013832.5 – LA 6: Grand Ecore Bridge Deck Repair, Route LA 6 in Natchitoches Parish (04/2021-06/2021). Topographic survey of the existing deck, barrier rails & river pier top of cap elevations for the Grand Ecore Bridge across the Red River using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate complete bridge deck & barrier rails. State Project No. H.014554.5 – LA 3025: Coulee Mine Scour Repair, Route LA 3025 in Lafayette Parish (04/2021-07/2021). Topographic survey of a bridge located near the intersection of LA 3025 & West Bayou Parkway using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridge, roadway and intersection. State Project No. H.012541.5 – LA 594: Overpass I-20, Route LA 594 in Ouachita Parish (01/2022-06/2022). Topographic survey of a bridge replacement near the intersection of I-20 and LA 594 (Texas Ave) using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar used to locate 4,200 LF of I-20 mainline and two bridge decks over interstate. State Project No. H.014646.5 – I-20: US 165 – E. of Garrett Road, Route I-20 in Ouachita Parish (08/2021-01/2022). Topographic survey of a proposed 2.49 mi interstate widening near the intersection of Garrett Road and I-20 using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar was used to locate 7,130 LF of I-20 mainline.
01/20 - Ongoing	Project Engineer processing topographic survey field data and developing topographic survey maps and images for State Contract No. 4400017710: Retainer Contract for Professional Surveying Services – Statewide, LA: This retainer contract has contained one task order to perform topographic surveys at a cost of \$393,871 over a five-year time frame. The task order for Topographic Surveys is as follows: State Project No. H.015052.5 – I-20 Widening & Improvements (Vancil to LA 34), Route I-20 in Ouachita Parish (05/2022-01/2023). Topographic survey of a proposed 3.94 mi interstate widening from Vancil Road to LA 34 along I-20 in West Monroe using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar was used to locate 20,815 LF of I-20 mainline.

16. STAFF EXPERIENCE:

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Firm employed by	Lazenby & Associates, Inc.		
Name	Blaine T. Holloway, EI	Years of relevant experience with this employer	2
Title	Surveyor	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS / 2023 / Civil Engineering		
Active registration number / state / expiration date	Engineer Intern: 35474 / LA / 09/30/2027		
Year registered	2023	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Blaine Holloway has two years of experience in performing drainage design, hydraulic analysis, roadway design, and preparation of roadway and bridge plans on a variety of LDOTD and local roadway projects. Mr. Holloway is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Mr. Holloway also assists in processing topographic survey, creating survey centerline alignments (ALG's) using horizontal regression analysis, and developing digital terrain models (DTM's). Mr. Holloway has successfully completed the following continuing education classes, workshops, and seminars: Open Roads Designer I Course, 2024; Traffic Engineering Analysis Process & Report Class, 2024; ATSSA National Flagger Certification Training Course, 2024; LA Specific Traffic Control Technician Course, 2024; LA Specific Traffic Control Supervision Course, 2024.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
06/22 – 09/22	State Project No. H.015052: I-20: I-20 Widening/Overlay (Vancil Rd to LA 34) Ouachita Parish, LA: This project consisted of performing a complete topographic survey along I-20 from the Well Road Interchange to the LA 34 (Stella Mill St) Interchange in Ouachita Parish. It also included portions of Well Road, Downing Pines Road, Thomas Road, and LA 34 (Stella Mill St) for a total cumulative length of 25,625 ft (4.85 miles). Data was collected using GPS receivers, robotic total stations, SX-10 terrestrial scanners, and a terrestrial mobile LIDAR scanner. Mr. Holloway assisted in post processing the survey data and creating the existing drainage map.
06/23 – 11/23	City of Monroe, City Street Improvements, Monroe, LA: Mr. Holloway has assisted with a variety of pavement preservation designs for the City of Monroe. His duties consist of developing pavement preservation roadway plans, including hydraulic design, quantity calculations, and construction cost estimates. Some of the City of Monroe projects on which Mr. Holloway has assisted include the following: Task Order No. 21-17-001 – Parkview Drive Improvements (Mill, Patch and Overlay); Task Order No. 21-17-003 – North 6th Street Improvements (Mill, Patch and Overlay)

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/24 – 04/24	State Contract No. 4400017710, Task Order No. 2, State Project No. H.015640.5, LA 150 & LA 818: Roundabout Topographic Survey, Statewide, LA: Mr. Holloway assisted in post-processing topographic survey data, which included developing a digital terrain model (DTM) of the existing site, creating a surveyed centerline alignment via horizontal regression, and conducting a LA One Call and coordinating with utility companies to get their existing facilities incorporated into the topographic survey. Mr. Holloway also assisted in compiling the LDOTD submittal requirements for this survey.
06/22 – Ongoing	State Project No. H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish, LA: Mr. Holloway has assisted with quantity calculations during final plan development, as well as assisting with preparation of a construction cost estimate. This urban project includes five multilane roundabouts and interstate ramp modifications. The final plans are currently 98% complete.
10/23 – Ongoing	State Contract No. 4400025025, District 05: I/JA Off-System Bridge Replacement Program, Statewide, LA: Mr. Holloway assisted in the development of preliminary roadway and bridge plans and hydraulic analyses/reports for ten (10) state projects under this contract. Some of Mr. Holloway’s duties included conducting hydraulic analyses utilizing HEC-RAS 1D modeling, preparing hydraulic reports in accordance with LDOTD’s Hydraulics Manual, assisting in the development of roadway and bridge plans, calculating of quantities, and developing construction cost estimates. Mr. Holloway also assisted in the development of topographic surveys for several of the projects under this contract. His duties for this portion of the project included post processing of survey data, development of digital terrain models (DTM) of the existing sites, creating surveyed centerline alignments via horizontal regression, and utility coordination. The State Projects on which Mr. Holloway has assisted include the following: ▪ State Project No. H.015337 – Mineral Springs Road Over Clark Creek ▪ State Project No. H.015453 – Hale Road Over Alligator Bayou ▪ State Project No. H.015454 – Keppler Creek Road Over Sugar Creek ▪ State Project No. H.015455 – Spring Creek Road Over Wafer Creek ▪ State Project No. H.015456 – Hodge Road Over Cypress Bayou ▪ State Project No. H.015459 – Lapine Road Over Rogers Creek ▪ State Project No. H.015460 – Little Road Over Creek ▪ State Project No. H.015461 – Fire Tower Road Over Rock Creek ▪ State Project No. H.015462 – Pilgrims Rest Church Road Over Steep Bank Creek ▪ State Project No. H.015463 – White Oak Landing Over Edmonds Creek These projects are nearing the final plan stage, where Mr. Holloway will continue to assist in developing the preparation of final roadway and bridge plans.
07/24 - Ongoing	State Project No. H.012047: LA 8: Big Creek Bridge, Grant Parish, LA: This project consists of the replacement of a 760’ precast slab span bridge in Grant Parish. Mr. Holloway is assisting in the development of roadway plans, including developing a 3D model of the proposed roadway approaches. His duties also included performing a hydraulic bridge analysis utilizing HEC-RAS 1D modeling and preparing a hydraulic report in accordance with the LDOTD Hydraulics Manual. Mr. Holloway also assisted in the development of a supplemental topographic survey for this project which included combining additional survey data with the existing survey provided by LDOTD District 08, preparing existing drainage maps and conducting a utility update. The preliminary plans are currently 60% complete. This project is a portion of Contract No. 4400021877 which consists of the replacement of 11 bridges across District 08. Mr. Holloway will continue to assist in the roadway/bridge plan preparation, hydraulic analyses/reporting, and topographic survey for these sites.

16. STAFF EXPERIENCE:

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Firm employed by	Watermark Design Group, LLC		
Name	Alton O. Davis, AIA, NCARB, ICC	Years of relevant experience with this employer	2
Title	Historical & Landscape Architect	Years of relevant experience with other employer(s)	37
Degree(s) / Years / Specialization	BS / 1987 / Architecture		
Active registration number / state / expiration date	LSBAE: #6837 / LA / 12/31/2025		
Year registered	2008	Discipline	Architecture
Contract role(s) / brief description of responsibilities	 Alton O. Davis, AIA, NCARB, ICC has over thirty-nine years of architectural experience including all facets of architectural design and management services from programming through construction administration including but not limited to, master planning, code review, cost estimating, scheduling, project management, design development, engineering coordination, construction documents, and specification writing as well as project staff scheduling and firm revenue projections.		

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 - Ongoing	LADOTD, Contract 5 for Movable Bridges (6), Vermilion, St. Martin, Calcasieu, and Lafayette Parishes, LA: Architectural Manager for the rehabilitation of six Bridge Tender Houses throughout Louisiana. The scope of work includes removing and replacing all existing windows with new impact resistant glazing, removing and replacing all interior and exterior doors, removing and replacing all finish flooring ceiling, repairing and re-painting all interior wall finishes and damaged areas, repairing and refinishing roof ladder and canopy as required, cleaning all exterior wall surfaces and inspecting and resealing all wall penetrations, removing and replacing all furniture/millwork with new construction and installing a new weather-resistant roofing system.
06/25 - Ongoing	LADOTD, Contract 2 for Movable Bridges (5), Vermilion, St. Martin, Cameron and Assumption Parishes, LA: Architectural Manager for the rehabilitation of five Bridge Tender Houses throughout Louisiana. The scope of work includes removing and replacing all existing windows with new impact resistant glazing, removing and replacing all interior and exterior doors, removing and replacing all finish flooring ceiling, repairing and re-painting all interior wall finishes and damaged areas, repairing and refinishing roof ladder and canopy as required, cleaning all exterior wall surfaces and inspecting and resealing all wall penetrations, removing and replacing all furniture/millwork with new construction and installing a new weather-resistant roofing system.
09/20 - Ongoing	St. John the Baptist Parish, West Bank Multipurpose Complex, LA: Architectural Manager responsible for supervising the preparation of construction documents, overseeing submittal plan reviews to the Fire Marshal and St. John Parish Code Enforcement, and direct coordination with the Owner and subconsultants. The project consists of a new 13,538 SF multipurpose facility for the West Bank of St. John the Baptist Parish. The facility will be used for public events and will include the following spaces: multipurpose room, conference room, storage, mechanical and electrical storage, laundry, catering kitchen/concession stand, corridor, Porte cochere, patio and janitor's closet. The new sitework includes 18,800 SF of parking, roads and sidewalks.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/23 - Ongoing	City of Gonzales, Care Center, Gonzales, LA: Architectural Manager for the project that consists of a large multipurpose space (gymnasium), meeting rooms, offices, concession stand, men’s and women’s restrooms and a pronounced public lobby that has an architecturally unique roof design and large storefront windows that provide natural lighting throughout the entry. In addition, there are the necessary utilitarian spaces for storage, IT, mechanical, electrical, etc. The interior design was programmed and planned such that the layout meets the needs of the various events that it may be used for, and includes clear circulation and wayfinding patterns, consistent with efficient movement of the numerous patrons expected to enjoy its use. Mr. Davis and the Meyer (Watermark) Design Team were challenged to design a building that contains all the spaces required in a building that was visually appealing and for a price that met the Owner’s budget. The result is this architecturally significant structure that will be home to many recreational and educational events in the future and will serve the City of Gonzales and the local community for years to come.
07/25 - Ongoing	City of Kenner, New Kenner City Hall, Kenner, LA: Senior Architect for the design of either one 4-6 story high or two 2-3 stories high government office buildings with proper ground level parking, drainage, sewer/water, lighting, landscaping, etc. The location of the project site is to be the west side of Williams Boulevard (LA 49) in the vicinity of W. Metairie Avenue. The site is where the old City Hall complex existed before several buildings sustained significant irreparable damage during Hurricane Ida. Within the project site, two existing office buildings which are currently occupied with City personnel will remain in place. Within the project site there is also a Veterans Park which contains numerous decommissioned military equipment. The approximate rough square footage is estimated to be 44,150 SF.
03/17 - 11/22	Port of South Louisiana, Administrative Building and Business Center, St. John the Baptist Parish, LA: Senior Architect for the design of a three-story 31,761 SF structure with a parking garage on the ground level and two stories of office and meeting space. The structure is poured in place concrete, and steel trusses with prefinished standing seam metal roof. The site includes new utilities, new paved parking, site lighting and concrete walks.
04/22 - 03/25	Assumption Parish Waterworks District #1, Parish Water District Administration Building, Napoleonville, LA: Senior Architect for the new 6,750 SF administration building for Assumption Parish Waterworks District #1 located in Napoleonville, Louisiana. The project consists of designing an administrative office building for citizens to pay their water bill, an open office area for the administration staff, men’s and women’s restrooms, lounge/lunchroom, Commissioners Board Room for Public Meetings, Commissioners Private Conference Room, storage closets, exterior patio area, mechanical, electrical and janitor rooms, phone and computer server room and other ancillary spaces. A new parking lot will be constructed at the rear of the building for administration staff and an extension of the front parking lot for visitors.

16. STAFF EXPERIENCE:

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Firm employed by	Watermark Design Group, LLC		
Name	Raymond J. Brown, III, AIA	Years of relevant experience with this employer	6
Title	Historical & Landscape Architect	Years of relevant experience with other employer(s)	35
Degree(s) / Years / Specialization	BS / 1985 / Architecture		
Active registration number / state / expiration date	Professional Engineer: #3601 / LA / 12/31/2025		
Year registered	1985	Discipline	Architecture
Contract role(s) / brief description of responsibilities	 Raymond J. Brown, III, AIA, has a wealth of knowledge and experience having practiced architecture for over forty-one years. His architectural design experience with buildings both in the public and private sectors range from Assisted Living Facilities, Hotels, Educational Facilities, Churches, Military Facilities, Banks, Hospitals and Theme Parks. He is responsible for all phases of project development on public buildings such as design schematics through construction administration, building design, project team coordination, contract document production and quality control. He also provides timely document delivery through all contract phases, coordination during construction, and expertise in building envelope assembly design and performance. Mr. Brown's professional recognition consists of Gambit Weekly's People Choice Award 2000 for Best Architecture for Jazzland Theme Park – New Orleans and Louisiana Contractor Magazine Award of Merit for Jazzland Theme Park.		

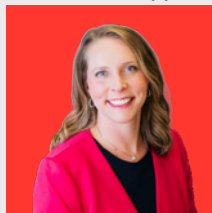
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
09/20 - Ongoing	St. John the Baptist Parish, West Bank Multipurpose Complex, LA: Responsible for the preparation of construction documents, submittal of plan reviews to the Fire Marshal and St. John Parish Code Enforcement, and coordination with the Owner and subconsultants. The project consists of a new 13,538 SF multipurpose facility for the West Bank of St. John the Baptist Parish. The facility will be used for public events and will include the following spaces: multipurpose room, conference room, storage, mechanical and electrical storage, laundry, catering kitchen/concession stand, corridor, Porte cochere, patio and janitor's closet. The new sitework includes 18,800 SF of parking, roads and sidewalks.
03/19 - 08/22	Ascension Parish, Lamar Dixon Expo Center Gymnasium Expansion, LA: Project Manager responsible for the design and construction drawings and specifications for the new 13,568 SF gymnasium expansion that contains a basketball area with bleacher seating for 527 occupants. The structure also contains a lobby, restroom facilities, janitor closets, storage, sprinkler riser room, electrical room, and mechanical mezzanine. The occupancy is classified by NFPA 101 2015 as Assembly. The occupancy classification type per IBC 2015 is Assembly Group A-4. The construction type per NFPA 101 2015 is Type II (000) and the construction type per IBC 2015 is Type II-B. The structure is protected throughout by an automatic sprinkler system. A pre-engineered metal building frame with an eave height of approximately 25' is the primary structure of the building. The roof is metal building roof panels and metal building wall panels sheath the upper portion of the exterior walls. The lower portion of the exterior wall is an insulated cavity wall with 4" split-faced concrete masonry units at the exterior and 8" concrete masonry units at the interior.

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 - Ongoing	Jefferson Parish, East Bank Animal Adoption & Services Facility, LA: Provide Quality Assurance / Quality Control review for the new animal adoption and services facility to replace the old one on the east bank for Jefferson Parish. The project consists of the design of a new Animal Care and Services Facility. The site designed to accommodate the new building, exterior spaces for people and animals, and parking. The new 27,000 SF building featured three public lobbies that host the animal adoption wing, clinic center and intake housing. Ancillary spaces include restrooms, storage, food storage, mechanical, electrical and IT rooms, laundry and cage washing.
11/21 - 05/25	Jefferson Parish, Parc des Familles Visitor Center, LA: Project Architect/Designer engaged in the preliminary design of a 2,500 SF visitor center. The project consists of a building that will serve visitors seeking information about park activities, attractions, hours, shelter rental, disc golf, and other amenities that the park provides. The visitor center building will be located near the entrance of the park. The building was designed in the style of an Acadian Cottage. The building includes a reception / display area, two offices with a closet, vestibule to restrooms, restrooms, meeting room with seating for 25-30, storage room, break room, mechanical/electrical room, IT room, sprinkler riser closet, janitor closet, attic mechanical space, service building and porch area. A new parking lot will be constructed to include a sufficient amount of parking space as required by Planning and Zoning. Mr. Brown will be providing a full range of architectural services beginning with the project programming and concluding with project closeout. He will be coordinating with the Owner and all project consultants to ensure that this facility is completed on time and within budget.
02/19 - Ongoing	Jefferson Parish, St. Amant Recreation Center Phase 2 – New Construction, St. Amant LA: Project Manager responsible for the design and construction drawings and specifications for the new recreation building for St. Amant Park to replace the old recreation building that was damaged in the historic flood August 2016 which is being demolished in Phase 1. A new 15,000 SF building will be constructed in the same area as the existing building. The building will consist of a large foyer, main assembly with a built-in stage for performances, large meeting room, commercial kitchen, multi-purpose room, conference room, administration offices, storage space and men's and women's restrooms. Support spaces include mechanical, electrical, IT and sprinkler rooms.

16. STAFF EXPERIENCE:

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Firm employed by	Terracon Consultants, Inc.		
Name	Lynne Roussel, PE	Years of relevant experience with this employer	20
Title	Geotechnical	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	MS / 2005 / Geotechnical Engineering; BS / 2003 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 0035152 / LA / 03/31/2026		
Year registered	2009	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Lynne Roussel has managed geotechnical projects in Louisiana for 20 years. She has also managed several Geotechnical ID/IQ contracts for LADOTD. She has performed engineering analyses using in-house computer resources and commercial software for settlement analysis, deep foundations analysis, pavement design, slope stability analysis, and lateral loading of deep foundations. She also performed analyses for the USACE for limiting pressure analyses for Horizontal Directional Drilling (HDD) projects, seepage analyses, and Method of Planes slope stability. Her software experience includes PCSTABL6, GEOSLOPE, LPILE, DRIVEN, SHAFT, Shoring Suite, and APILE. Meets MPR #6		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
12/20 - Ongoing	LADOTD, IDIQ Contracts for Professional Geotechnical Services Statewide Contract No. 4400019014, Statewide, LA: Contract Manager and Project Reviewer who managed the retainer contract for services to perform geotechnical exploration and engineering. The contract value is \$2.5 Million.
03/25 - 03/25	LADOTD, H.012059 - LA19 - Bridges near Zachary, Zachary, LA: Project Reviewer who performed quality review on engineering analyses and reporting.
01/24 - Ongoing	LADOTD, H.015447 – IJJA Off-System Bridge Program – Simmesport, LA: Project Reviewer and Contract Manager for Terracon who is conducting the geotechnical investigation. The scope includes a 122-foot soil boring using flight auger and mud rotary drilling, with soil samples being collected at regular intervals. Laboratory tests will assess moisture content, Atterberg limits, dry unit weight, grain size, and undrained unconsolidated compression. The site was classified as Seismic Site Class D, with surface geology identified as Holocene and Pleistocene alluvial deposits. Terracon will provide recommendations for earthwork, foundations, floor slabs, and pavements based on the findings.

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 - Ongoing	LADOTD, H.012048 - Castor Creek and Relief Bridges, Tullos, LA: Project Reviewer and Contract Manager for Terracon who is providing geotechnical services focusing on subsurface soil and groundwater conditions and seismic site classification per IBC standards. The scope included 16 soil borings to depths of 60–110 feet using rotary drilling, with samples collected via Shelby tubes and SPT methods. Groundwater levels were monitored during drilling. Laboratory testing assessed moisture content, plasticity, particle-size distribution, density, and shear strength, following ASTM standards and USCS classification. Results were documented in detailed boring logs and graphs.
10/22 - 02/25	LADOTD, H.003931.5-2 - I-10 - Calcasieu River Bridge Additional Borings, Lake Charles, LA: Project Reviewer and Contract Manager for Terracon who conducted subsurface exploration and laboratory testing to support the replacement of the I-10 Calcasieu River bridge in Lake Charles, LA. Their work included 37 deep bridge borings some over water and within a navigable channel and 39 shallow roadway borings. They later advanced 17 additional borings using marsh buggy and ATV-mounted drill rigs along various segments of the I-10 corridor. Soil samples were collected using standard methods, and groundwater levels were monitored during drilling. In the lab, Terracon performed tests for moisture content, plasticity, particle-size distribution, density, and triaxial compression strength, all in accordance with ASTM and LADOTD standards.
09/22 - Ongoing	LADOTD, H.002868 I-49 Frontage Road Bridges PDA Testing – Lafayette, LA: Project Reviewer and Contract Manager for Terracon who is providing geotechnical design of the substructure of two bridges and global stability and settlement analysis for several MSE walls to be constructed as part of this design build project. Terracon developed nominal capacity and resistance factors for pile foundations for the bridge substructures and developed driving criteria using WEAP analysis for the proposed pile driving equipment. Dynamic Pile Testing was performed during construction to verify pile capacities.
06/19 - 03/20	LADOTD, H.004100 I-10 Widening, Baton Rouge, LA: Senior Engineer supervised the subsurface evaluation and lab testing. All testing was performed in accordance with LADOTD sampling and guidelines. The team worked safely around traffic and lane closures on the interstate near College Drive.
05/18 - Ongoing	LADOTD, H.011235.5: I-49 South @ Verot School Road US 90, Lafayette, LA: Project Manager responsible for overseeing the design of the substructure of two bridges and global stability and settlement for several MSE walls to be constructed as part of this design build project. Terracon developed nominal capacity and resistance factors for pile foundations for the bridge substructures and developed driving criteria using WEAP analysis for the proposed pile driving equipment.
05/18 - 11/20	LADOTD, H.005967: Nelson Road Extension and Bridge, Lake Charles, LA: Project Manager who managed the subsurface evaluation and geotechnical engineering design for the Nelson Road Extension and Bridge Project. Terracon completed the subsurface exploration including water borings in Contraband Bayou and provided 90% design of the substructure for the bridge over Contraband Bayou. Terracon performed settlement analysis for the planned embankment approaches. The scope also included design support for impact dolphins to be constructed in front of the bridge in the Bayou to protect the bridge superstructure from impact of possible runaway ocean-going ships from the nearby Port of Lake Charles facility.

16. STAFF EXPERIENCE:

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Firm employed by	Terracon Consultants, Inc.		
Name	Stephen E. Greaber, PE	Years of relevant experience with this employer	25
Title	Geotechnical	Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization	BS / 1989 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 0026107 / LA / 09/30/2027		
Year registered	1995	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Steve Greaber has 36 years of experience working on a wide range of geotechnical projects. He has worked extensively on City-Parish projects as well as for commercial, industrial, transportation, and institutional clients. He is well-versed in all aspects of geotechnical engineering and materials quality aspects of construction, including earthwork, concrete, masonry, asphalt, and structural steel. Mr. Greaber has extensive experience in deep foundation analysis, implementation/interpretation of load testing, site modification, and improvement techniques, including but not limited to dynamic compaction, geotextile reinforced slopes, and wick drains for the improvement of consolidation. Meets MPR #6		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
07/23 - Ongoing	LADOTD, H.012048 - Castor Creek and Relief Bridges – Tulos, LA: Project Reviewer and Contract Manager. Terracon is providing geotechnical services focusing on subsurface soil and groundwater conditions and seismic site classification per IBC standards. The scope included 16 soil borings to depths of 60–110 feet using rotary drilling, with samples collected via Shelby tubes and SPT methods. Groundwater levels were monitored during drilling. Laboratory testing assessed moisture content, plasticity, particle-size distribution, density, and shear strength, following ASTM standards and USCS classification. Results were documented in detailed boring logs and graphs.
10/22 - 02/25	LADOTD, H.003931.5-2 - I-10 - Calcasieu River Bridge Additional Borings – Lake Charles, LA: Senior Geotechnical Engineer. Terracon conducted subsurface exploration and laboratory testing to support the replacement of the I-10 Calcasieu River bridge in Lake Charles, LA. Their work included 37 deep bridge borings—some over water and within a navigable channel—and 39 shallow roadway borings. They later advanced 17 additional borings using marsh buggy and ATV-mounted drill rigs along various segments of the I-10 corridor. Soil samples were collected using standard methods, and groundwater levels were monitored during drilling. In the lab, Terracon performed tests for moisture content, plasticity, particle-size distribution, density, and triaxial compression strength, all in accordance with ASTM and LDOTD standards.

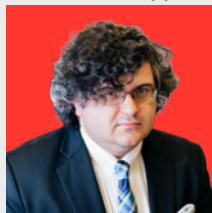
STAFF EXPERIENCE

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
07/18 – 10/21	LADOTD, H.011235.5 - I-49 South @ Verot School Road US 90 - Lafayette, LA: Lead Design Engineer for the subsurface evaluation and geotechnical engineering design for the US 90 (I-49 South) Design Build Project. Terracon provided the design of the substructure of two bridges and global stability and settlement for several MSE walls to be constructed as part of this design build project. Terracon developed nominal capacity and resistance factors for pile foundations for the bridge substructures and developed driving criteria using WEAP analysis for the proposed pile driving equipment. Dynamic Pile Testing was performed during construction to verify pile capacities. Terracon reviewed the CAPWAP results and provided recommendations for adjustment of the resistance factors to accommodate slight variations in nominal capacity obtained at each bent.
05/18 – 01/21	LADOTD, H.005967: Nelson Road Extension and Bridge - Lake Charles, LA: Senior Geotechnical Engineer. Reviewed the subsurface evaluation and geotechnical engineering design for the Nelson Road Extension and Bridge Project. Terracon completed the subsurface exploration that included water borings in Contraband Bayou and has provided 90% design of the substructure for the bridge over Contraband Bayou and performed settlement analysis for the planned embankment approaches. The scope also included design support for impact dolphins to be constructed in front of the bridge in the Bayou to protect the bridge superstructure from impact of possible runaway ocean-going ships from the nearby Port of Lake Charles facility.
06/17 – 10/18	LADOTD, H.010006: Bayou Petit Caillou Bridge Improvements - Chauvin, LA: Senior Geotechnical Engineer. Provided senior review the subsurface evaluation and substructure design for upgrades to the existing bridge. The services were performed for Huval and Associates through their Bridge Preservation Contract and included providing pile recommendations for support of a new bridge lift operators building and supports for traffic barriers and fender replacements.
02/14 – 02/17	LADOTD, H.010620: US 90 (I-49 South) Design Build - Lafayette Parish, LA. C.H. Fenstermaker: Senior Geotechnical Engineer. Provided senior review for the subsurface evaluation and geotechnical engineering design for the US 90 (I-49 South) Design Build Project. Terracon provided the design of the substructure of two bridges and global stability and settlement for several MSE walls to be constructed as part of this design build project. Terracon developed nominal capacity and resistance factors for pile foundations for the bridge substructures and developed driving criteria using WEAP analysis for the proposed pile driving equipment. Dynamic Pile Testing was performed during construction to verify pile capacities. Terracon reviewed the CAPWAP results and provided recommendations for adjustment of the resistance factors to accommodate slight variations in nominal capacity obtained at each bent.
01/15 – 02/16	LADOTD, H.010719: US 90 Ramp Improvement, Orleans Parish, LA: Senior Geotechnical Engineer. Provided senior review of the subsurface evaluation and substructure design of this new bridge and ramp improvement project at US 90 and South Claiborne Ave. The entrance ramp to US 90 was elevated to improve traffic flow. LADOTD boring logs and LRFD Pile Resistance Calculations were provided to the design engineer.
2010 - 2013	LADOTD, SP No. 450-10-0159 - Interstate 10 Widening, Siegen to Highland - Baton Rouge, LA: Project Manager. Managed the widening of I-10 from two lanes in each direction to three lanes in each direction. Dual existing bridges over Wards Creek Diversion will be widened, and the existing 850-foot-long dual bridges over the Kansas City Railroad and La Crete Drive were completely replaced with new three-lane bridges with 12-foot shoulders and increased clearances to allow the railroad to add a parallel track in the future.
11/10 – 08/12	Volkert/LADOTD, LA-1 to I-10 Connector 30% Design - Port Allen, LA: Supervising Geotechnical Engineer. Supervised 30% design plans for a proposed new connector between I-10 and LA-1 in West Baton Rouge Parish. The extension included two bridges and two miles of new roadway. Bridges over an existing railroad and the Intracoastal Canal were included. An evaluation of a possible retained earth embankment was included.

16. STAFF EXPERIENCE:

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Firm employed by	Terracon Consultants, Inc.		
Name	Ryan Poindexter, PE	Years of relevant experience with this employer	9
Title	Geotechnical	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization	BS / 2013 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 0046285 / LA / 03/31/26		
Year registered	2021	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Ryan Poindexter has over nine years of geotechnical engineering experience working for commercial, industrial, and transportation clients. His experience includes field and office tasks such as drill crew supervision, soil laboratory testing, data quality control, engineering calculations, geotechnical report preparation, and project management. Ryan now focuses on managing full-spectrum geotechnical projects, many of which are for LADOTD through our geotechnical retainer contract. Ryan is TCS 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).
03/25 - 03/25	LADOTD, H.012059 - LA19 - Bridges near Zachary, Zachary, LA: Project Manager for this project.
02/25 - Ongoing	LADOTD, H.014990 - S. Tiger Bend Road & E. Achord Road, Baton Rouge, LA: Project Manager for this project. Terracon is providing geotechnical engineering services that include subsurface exploration, laboratory testing, and engineering analysis to support the design and construction for the proposed bridge replacement.
07/24 - Ongoing	LADOTD, H.014984 - Libuse Cutoff Road over Flagon Bayou, Pineville, LA: Project Manager for this project. Terracon is providing subsurface exploration, laboratory testing, and geotechnical data analysis to support the design of a replacement bridge. Scope includes soil and groundwater testing, along with seismic site classification, based on two borings advanced to depths of 85 and 70 feet.
07/23 - Ongoing	LADOTD, H.015338 - Off-System Bridge Replacement, Cameron, LA: Project Manager for this project. Terracon is providing geotechnical engineering services, including site exploration, analysis, and recommendations for earthwork, foundation design, and construction for infrastructure projects.
07/23 - Ongoing	LADOTD, H.012537 - LA154, LA157 - Red Chute BYU & Flat RVR BRS, Elm Grove, LA: Project Manager for this project. Terracon is providing geotechnical engineering services that include field exploration, laboratory testing, and engineering analysis to evaluate subsurface conditions and develop design recommendations for foundations, pavements, and earthwork.

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 - Ongoing	LADOTD, H.012048 - Castor Creek and Relief Bridges, Tullos, LA: Project Manager for this project. Ryan is responsible for overseeing all geotechnical investigation activities. This includes coordinating the advancement of 16 soil borings to depths of 60 to 110 feet using rotary drilling methods, ensuring proper sampling techniques such as Shelby tubes and Standard Penetration Tests (SPT), and monitoring groundwater levels during drilling. Ryan also managed laboratory testing to evaluate soil properties moisture content, plasticity, particle-size distribution, density, and shear strength ensuring compliance with ASTM standards and LADOTD protocols. Additionally, Ryan ensured accurate classification of soils using the Unified Soil Classification System (USCS) and the preparation of detailed documentation, including boring logs and graphs, while maintaining alignment with project goals and regulatory requirements.
01/24 - Ongoing	LADOTD, H.015447 – IJA Off-System Bridge Program, Simmesport, LA: Project Manager for this project. Ryan is responsible for overseeing all aspects of the geotechnical investigation. This includes coordinating the drilling of a 122-foot soil boring using flight auger and mud rotary techniques, ensuring proper sample collection at regular intervals, and managing laboratory testing for moisture content, Atterberg limits, dry unit weight, grain size analysis, and undrained unconsolidated compression. He will also ensure accurate geological characterization and seismic site classification, and guide the development of engineering recommendations for earthwork, foundations, floor slabs, and pavements, all while maintaining compliance with project specifications and regulatory standards.
10/22 - 02/25	LADOTD, H.003931.5-2 - I-10- Calcasieu River Bridge Additional Borings, Lake Charles, LA: Project Manager. Ryan coordinated all phases of subsurface exploration and laboratory testing. This includes managing the execution of 37 deep bridge borings some over water and within a navigable channel and 39 shallow roadway borings, as well as an additional 17 test borings using specialized drill rigs along various segments of the I-10 corridor. Ryan also ensured proper sampling methods were used, such as thin-walled tube and split-barrel techniques, and that groundwater levels are accurately recorded. In the lab, Ryan oversaw testing for moisture content, plasticity, particle-size distribution, density, and triaxial compression strength, ensuring all procedures comply with ASTM standards and LADOTD protocols.

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Firm employed by	Terracon Consultants, Inc.		
Name	Brian Alexander	Years of relevant experience with this employer	21
Title	Geotechnical	Years of relevant experience with other employer(s)	N/A
Degree(s) / Years / Specialization	MPT / 1999 / Physical Therapy		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	 Brian Alexander has over 20 years of experience in field exploration, he manages the geotechnical drilling operations for Louisiana and Mississippi. He has worked extensively on commercial, industrial, LADOTD and institutional projects. These assignments have provided him with extensive experience in Shelby Tube and Split Spoon sampling, Macro-core, Geoprobe and Electronic Cone Penetrometer Testing (CPT) and mud rotary drilling. He coordinates logistics/scheduling of projects between the six offices in both states and assists neighboring states in project coordination when it is needed. His approach to increased field safety has earned him safety awards at the division and national level. Brian is TCS 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).
03/25 - 03/25	LADOTD, H.012059 - LA19 - Bridges near Zachary, Zachary, LA: Supervised drill crews for this project.
02/25 - Ongoing	LADOTD, H.014990 - S. Tiger Bend Road & E. Achord Road, Baton Rouge, LA: Supervising drill crews for this project.
11/24 - Ongoing	LADOTD, H.014988 - Carey Road over Blackwater Bayou, Baker, LA: Supervising drill crews for this project.
07/24 - Ongoing	LADOTD, H.014984 - Libuse Cutoff Road over Flagon Bayou, Pineville, LA: Supervising drill crews for this project.
07/23 - Ongoing	LADOTD, H.015338 - Off-System Bridge Replacement, Cameron, LA: Supervising drill crews for this project.
07/23 - Ongoing	LADOTD, H.012537 - LA154, LA157 - Red Chute BYU & Flat RVR BRS, Elm Grove, LA: Supervising drill crews for this project.
07/23 - Ongoing	LADOTD, H.012048 - Castor Creek and Relief Bridges, Tullos, LA: Supervising drill crews for this project.
01/24 - Ongoing	LADOTD, H.015447 – IJA Off-System Bridge Program, Simmesport, LA: Supervising drill crews for this project.
10/22 - 02/25	LADOTD, H.003931.5-2 - I-10- Calcasieu River Bridge Additional Borings, Lake Charles, LA: Supervised drill crews for this project.
09/20 - 04/24	LADOTD, H.000385.5 - US 190- LA 415 & RR OVERPASS REPL, Port Allen, LA: Supervised drill crews for this project.
05/20 - 03/24	LADOTD, H.005121 - LA-1 and LA-415 Connector, Port Allen, LA: Supervised drill crews for this project.
03/25 - 03/25	LADOTD, H.012059 - LA19 - Bridges near Zachary, Zachary, LA: Supervised drill crews for this project.
11/20 - 01/24	LADOTD, H.012569 - Little Sugar Creek Bridge, Sugartown, LA: Supervised drill crews for this project.

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Firm employed by	Terracon Consultants, Inc.		
Name	Matt Minton	Years of relevant experience with this employer	24
Title	Geotechnical	Years of relevant experience with other employer(s)	N/A
Degree(s) / Years / Specialization	BS / 2001 / Industrial Technology		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities	 Matt Minton has 24 years of experience in laboratory testing and construction QA/QC testing for geotechnical projects, civil construction, and landfill construction. He currently serves as the Laboratory Manager of Terracon's Baton Rouge full-service geotechnical and construction materials laboratory. Minton has worked diligently to implement a complete QA process for all the laboratory tests conducted in our laboratory. Under his supervision, the Baton Rouge laboratory has maintained its LDEQ LELAP, USACE, and AASHTO (AMRL and CCRL) certifications. Meets MPR #7		

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).
03/25 - 03/25	LADOTD, H.012059 - LA19 - Bridges near Zachary, Zachary, LA: Served as lab manager for this project.
11/24 - Ongoing	LADOTD, H.014988 - Carey Road over Blackwater Bayou, Baker, LA: Serving as lab manager for this project.
07/24 - Ongoing	LADOTD, H.014984 - Libuse Cutoff Road over Flagon Bayou, Pineville, LA: Serving as lab manager for this project.
07/23 - Ongoing	LADOTD, H.015338 - Off-System Bridge Replacement, Cameron, LA: Serving as lab manager for this project.
07/23 - Ongoing	LADOTD, H.012537 - LA154, LA157 - Red Chute BYU & Flat RVR BRS, Elm Grove, LA: Serving as lab manager for this project.
07/23 - Ongoing	LADOTD, H.012048 - Castor Creek and Relief Bridges, Tullos, LA: Serving as lab manager for this project.
01/24 - Ongoing	LADOTD, H.015447 – IJA Off-System Bridge Program, Simmesport, LA: Serving as lab manager for this project.
10/22 - 02/25	LADOTD, H.003931.5-2 - I-10 - Calcasieu River Bridge Additional Borings, Lake Charles, LA: Served as lab manager for this project.
07/21 - 04/22	LADOTD, H.003931 - I-10 Lake Charles, Lake Charles, LA: Served as lab manager for this project.
12/21 - 11/23	LADOTD, H.012033 - Cross Bayou and Caney Bayou, Ouachita Parish, LA: Served as lab manager for this project.
09/20 - 04/24	LADOTD, H.000385.5 - US 190- LA 415 & RR OVERPASS REPL, Port Allen, LA: Served as lab manager for this project.
05/20 - 03/24	LADOTD, H.005121 - LA-1 and LA-415 Connector, Port Allen, LA: Served as lab manager for this project.
11/20 - 01/24	LADOTD, H.012569 - Little Sugar Creek Bridge, Sugartown, LA: Served as lab manager for this project.

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Firm employed by	T2 UES, Inc.		
Name	Suzanne McCain, PE, LSI	Years of relevant experience with this employer	7
Title	Utilities	Years of relevant experience with other employer(s)	31
Degree(s) / Years / Specialization	BS / 1987 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 0025169 / LA / 09/30/27; LSI: 0000466 / LA / 09/30/2027		
Year registered	1993	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Suzanne McCain has extensive experience working with LADOTD on a variety of roadway and enhancement projects. Using this foundation, Mrs. McCain provides T2 Utility Engineers clients with insight and valuable feedback on projects. Before joining T2 Utility Engineers, Mrs. McCain was a Project Manager for multiple major design firms and worked for LADOTD for 13 years. Mrs. McCain was responsible for the preparation and quality control of roadway plans. Currently, for T2 Utility Engineers, Mrs. McCain serves as a Project Manager on numerous projects for public and private clients involving the surveying of underground utilities and coordination with utility companies and owners to manage the relocation of utilities in conflict with the proposed design. Suzanne and necessary team members will be responsible for preparing scope and budgets for task orders.		

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 – Ongoing	Mobile River Bridge, Mobile, AL: Project Manager. The Mobile River Bridge project is a major transportation initiative that aims to improve the traffic flow and safety on I-10 in Alabama. T2 Utility Engineers is providing designating (CI/ASCE 38-22 Quality Level B) and locating (CI/ASCE 38-22 Quality Level A) subsurface utility engineering services. Mrs. McCain supervises the overall project delivery including scheduling work, reviewing daily field sketches and the final deliverable.
01/20 – Ongoing	H.004791: Belle Chasse Bridge and Tunnel Replacement, Plaquemines Parish, LA: Project Manager. T2 Utility Engineers is providing utility coordination services during the design and construction of the Belle Chasse Bridge and Tunnel Replacement project. Mrs. McCain, as Project Manager for T2 Utility Engineers, is in close coordination with the contractor and utility providers to monitor the conflict matrix as the design progresses. T2 Utility Engineers has prepared a KMZ file to review utility locations in respect to edges of roadway, proposed drainage structures and temporary pavement widening for construction operations. Mrs. McCain along with design and construction personnel use this KMZ file as a reference when in the field and to coordinate with existing records held by the utility providers. Utility providers are currently preparing engineering drawings for service relocations. Upon review by the Design Build team, utility agreements will be entered into and construction will commence. T2 Utility Engineers will closely monitor the schedule of each utility provider to ensure that all services are relocated in time for project construction to begin.

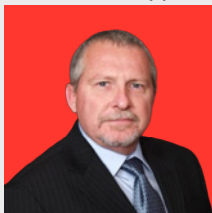
STAFF EXPERIENCE

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
10/18 – Ongoing	H.004273: I-49 Lafayette Connector, Lafayette Parish, LA: Engineer-in-Charge. T2 Utility Engineers has provided records research (CI/ASCE 38-22 Quality Level D), designating (CI/ASCE 38-22 Quality Level B) and locating (CI/ASCE 38-22 Quality Level A) subsurface utility engineering services throughout the project corridor. Mrs. McCain is supervising the compilation of the updated QLB mapping and the continual monitoring of utility permits being granted in the project corridor.
10/18 – 08/19	H.004100: I-10: LA 415 to Essen Lane to I-10 and I-12: West and East Baton Rouge Parishes, LA: Engineer-in-Charge. T2 Utility Engineers provided records research (Quality Level D) and designating (Quality Level B) SUE throughout the 10-mile project corridor. The team developed a comprehensive map based on record collection and discussions with utility representatives. The design team use the preliminary utility map for reference to determine larger systems to avoid during preliminary design. While the Quality Level D map was being completed, T2 Utility Engineers began its field investigation of Quality Level B designating. This immense task required major coordination efforts to schedule crews for T2 Utility Engineers and the survey crews on the team to ensure utility markings were collected timely and correctly. Mrs. McCain supervised the collection of utility owner record information, and other project research used in the development of the comprehensive map, used by the design team to avoid critical utilities in early design. She also supervised the SUE field efforts for utility designation. She reviewed the plan sheets of utility data collection and accurate depiction at Phase changes, as well as prepared/QA/QC project deliverables.
11/20 – 01/21	H.013725.5: Gause Boulevard Drainage Investigation: St. Tammany Parish, LA: Project Manager. Due to pavement failures along the route that may have resulted in failures in the drainage system, T2 Utility Engineers was hired to provide CCTV services to analyze the sub-surface drainage system and to provide an overall rating of the system using the PACP methodology. In addition, T2 Utility Engineers provided designating (CI/ASCE 38-22 Quality Level B) subsurface utility engineering services in eighteen locations to map the underground utilities within the project limits. Mrs. McCain supervised the overall project delivery including scheduling work, reviewing daily field sketches and the final deliverable.
10/20 – 12/20	H.002798.6: Bayou Teche Bridge at Oaklawn: St. Mary Parish, LA: Project Manager. During construction of the Oak Lawn Bridge over Bayou Teche, a 2” steel line was exposed. T2 Utility Engineers provided designating (CI/ASCE 38-22 Quality Level B) and (CI/ASCE 38-22 Quality Level A) subsurface utility engineering services to investigate the line location within the project limits and provide an elevation of the line in the construction limits. Mrs. McCain supervised the overall project delivery including scheduling work, reviewing daily field sketches and the final deliverable.
06/22 – 11/22	West Alabama Highway Corridor: Thomasville – Tuscaloosa, AL: Engineer-in-Charge. T2 Utility Engineers provided records research (CI/ASCE 38-02 Quality Level D), designating (CI/ASCE 38-02 Quality Level B) and locating (CI/ASCE 38-02 Quality Level A) subsurface utility engineering services throughout the project corridor. Mrs. McCain supervised the overall project delivery including scheduling work, reviewing daily field sketches and the final deliverable.

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Firm employed by	T2 UES, Inc.		
Name	Daryl Thie, PLS	Years of relevant experience with this employer	14
Title	Utilities	Years of relevant experience with other employer(s)	30
Degree(s) / Years / Specialization	BS / 1981 / Land Surveying		
Active registration number / state / expiration date	Professional Land Surveyor: 5023 / LA / 03/31/26		
Year registered	2009	Discipline	Land Surveying
Contract role(s) / brief description of responsibilities	 As Vice President, Daryl Thie takes the lead role in customizing QA/QC plans for specific projects and clients. Mr. Thie oversees the operations of T2 Utility Engineers' surveying and mapping, subsurface utility engineering, and utility coordination services provided throughout Louisiana. He is also the Principal-In-Charge on assigned projects throughout the Southeastern United States. Throughout his career, Mr. Thie has managed hundreds of projects relating to all aspects of the surveying profession. This experience has given Mr. Thie the ability to oversee projects from conception to completion. He anticipates challenges before they arise and finds creative and innovative solutions, delivering projects on time or ahead of schedule and in a cost-efficient manner. Mr. Thie's extensive experience throughout the Southeastern United States includes, but not limited to boundary, GLO retracement, mean high water, right-of-way, horizontal and vertical control, transportation design, subsurface utility, terrestrial LiDAR, and hydrographic surveys. He has completed services for federal, state, and local government agencies including LADOTD, Florida Department of Transportation (FDOT), Alabama Department of Transportation (ALDOT), Mississippi Department of Transportation (MDOT), Florida Department of Environmental Protection (FDEP), United States Army Corp of Engineers Mobile District, and the St. Johns River Water Management District.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
10/12 – 04/13	H.010560.5: Essen Lane Widening (Route LA 3064), Perkins Road to I-10: East Baton Rouge Parish, LA: Surveyor. T2 Utility Engineers provided designating (CI/ASCE 38-02 Quality Level B) and locating (CI/ASCE 38-02 Quality Level A) subsurface utility engineering services to map the underground utilities within the project limits. The corridor is one of the most congested roads in Baton Rouge with utilities servicing the many businesses and medical facilities. It was paramount that T2 Utility Engineers precisely inventory all utilities in order for the designer to fully understand the available space for new construction and the impacts they may have. T2 Utility Engineers also provided utility coordination services to identify and resolve utility/design conflicts. Utility coordination was complicated due to the need to minimize right of way acquisition.		

STAFF EXPERIENCE

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
07/15 – Ongoing	H.004273: I-49 Lafayette Connector: Lafayette Parish, LA: Surveyor. T2 Utility Engineers provided records research (CI/ASCE 38-02 Quality Level D), designating (CI/ASCE 38-02 Quality Level B) and locating (CI/ASCE 38-02 Quality Level A) subsurface utility engineering throughout the 7-mile project corridor. T2 Utility Engineers was given multiple subsurface utility engineering tasks in the process of aiding the design team. T2 Utility Engineers developed a comprehensive map based on record collection and discussions with utility representatives. From this, the design team could have a preliminary utility map to determine larger systems to avoid during preliminary design. Once the Quality Level D map was complete, T2 Utility Engineers began its field investigation of Quality Level B designating. This immense task required major coordination efforts to schedule crews for Tue2 and the multiple survey crews on the team to ensure that the utility markings were collected timely and correctly. T2 Utility Engineers was able to bring in resources from other regions to increase the productivity of the local crews and meet project milestones. The mapping data from both survey firms was compiled into an organized central location in order to properly review. This review is a part of T2 Utility Engineers' stringent Quality Control process that goes into projects large and small and overseen by experienced Subsurface Utility Engineering professionals. After compiling the Quality Level B map, T2 Utility Engineers began its Quality Level A portion of the project to establish elevations on critical utility systems as well as unknown utilities found in the Quality Level B mapping. T2 Utility Engineers' overall efforts established an extensive Quality Level B map with Quality Level A information throughout the project corridor in combination with the Utility Coordination to keep utility owners aware of the mapping progress
07/23 – Ongoing	AL68900201: Mobile River Bridge: Mobile, AL: Principal-In-Charge. The Mobile River Bridge project is a major transportation initiative that aims to improve the traffic flow and safety on I-10 in Alabama. T2 Utility Engineers is providing designating (CI/ASCE 38-22 Quality Level B) and locating (CI/ASCE 38-22 Quality Level A) subsurface utility engineering services.
02/20 – 04/25	H.004791: Belle Chasse Bridge and Tunnel Replacement: Plaquemines Parish, LA: Principal-In-Charge. T2 Utility Engineers is providing utility coordination services during the design and construction of the Belle Chasse Bridge and Tunnel Replacement project. T2 Utility Engineers is in close coordination with the contractor and utility providers to monitor the conflict matrix as the design progresses. T2 Utility Engineers has prepared a KMZ file to review utility locations in respect to edges of roadway, proposed drainage structures and temporary pavement widening for construction operations. This KMZ file is used as a reference when in the field and to coordinate with existing records held by the utility providers. Utility providers are currently preparing engineering drawings for service relocations. Upon review by the Design Build team, utility agreements will be entered into and construction will commence. T2 Utility Engineers will closely monitor the schedule of each utility provider to ensure that all services are relocated in time for project construction to begin.

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Firm employed by	T2 UES, Inc.		
Name	Sean Swierczek	Years of relevant experience with this employer	14
Title	Utilities	Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization	Certificate / 2007 / Surveying		
Active registration number / state / expiration date	N/A		
Year registered	N/A	Discipline	
Contract role(s) / brief description of responsibilities	 Sean Swierczek began his career in surveying and mapping after his honorable discharge from the United States Army, where he served as a fire team leader with 3rd Ranger Battalion. He began surveying in the private sector, mainly focusing on residential construction, boundary and ALTA surveys and FEMA flood studies. After three years, Mr. Swierczek was presented with the opportunity to lead the survey efforts of multiple crews on the construction of a multi-state, transcontinental natural gas pipeline. He worked in the role of senior crew chief for three years before joining the T2 Utility Engineers team. After showing his depth of knowledge and leadership abilities, Mr. Swierczek quickly rose through the ranks. He has been responsible for the acquisition and accuracy of field survey data for several high-profile projects. While serving as lead crew chief for T2 Utility Engineers' Norcross branch office, Mr. Swierczek took it upon himself to work alongside the office staff and learn how to process survey data. He is now responsible for reviewing field data, processing/translating data, drafting and preparing Georgia Department of Transportation, and other public and private client, compliant final deliverables. He is adept at managing data within InRoads and completing final deliverables using MicroStation. Mr. Swierczek is a strong CADD technician as he has a complete understanding of a project, from data collection to final deliverable. Mr. Swierczek's military background gives him a razor-sharp focus and can-do attitude in everything he does. His commitment to completing quality work, along with his drive and work ethic, have served clients well on past projects and will continue to do so on future task assignments.		

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
07/23 – Ongoing	AL68900201: Mobile River Bridge, Mobile, AL: Field Manager. The Mobile River Bridge project is a major transportation initiative that aims to improve the traffic flow and safety on I-10 in Alabama. T2 Utility Engineers is providing designating (CI/ASCE 38-22 Quality Level B) and locating (CI/ASCE 38-22 Quality Level A) subsurface utility engineering services.

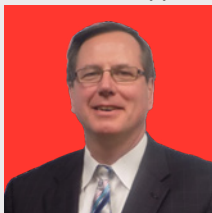
STAFF EXPERIENCE

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
09/21 – Ongoing	Statewide Subsurface Utility Engineering Master Contract, Georgia Department of Transportation (GDOT), Statewide, GA: Assistant Project Manager. T2 Utility Engineers is currently under contract to provide subsurface utility engineering services statewide on as task order basis for GDOT. Services on task assigned under this contract include, designating (CI/ASCE 38-02 Quality Level B) locating (CI/ASCE 38-02 Quality Level A) subsurface utility engineering, utility design conflict analysis, training and data management, professional utility coordination and compliance with all utility protection center of Georgia State Law requirements for notification prior to excavation.
06/23 – Ongoing	Surveying Services Master Services Agreement (MSA), Metropolitan Atlanta Rapid Transit Authority (MARTA), Atlanta, GA: Assistant Project Manager. T2 Utility Engineers was awarded a MARTA surveying services master contract that would have a term of three years and MARTA, in its discretion, may extend the initial Contract term by up to two additional years by exercising individual one year options in accordance with the contract. At the time of the award, MARTA estimated the value of these services for all firms will not exceed \$5,000,000 for the entire five year contract period. T2 Utility Engineers has completed two projects to date since the award of the contract in May 2021. Services requested include establishing second order horizontal and vertical control network utilizing GPS technology, topographic survey, including location of trees, utilities and other features, property and right-of-way surveys, ALTA/ACSM boundary surveys, including courthouse research and submittal of drawings, adhering to MARTA Drawing Criteria and 3D laser scanning.
05/20 – 04/23	Atlanta Gas And Light, Master Contract, Statewide, GA: Field Manager. T2 Utility Engineers provided subsurface utility engineering and surveying services on various infrastructure projects throughout Georgia on an on-call task work order basis. T2 Utility Engineers' services included complete subsurface utility engineering and supporting surveying services.
06/20 – 06/23	Georgia Power Master Contract, Statewide, GA: Assistant Project Manager. T2 Utility Engineers held a statewide MSA with Georgia Power under which we completed various survey and SUE assignments on an on-call task work order basis. T2 Utility Engineers completed 24 assignments. The scopes of these assignments included completing SUE investigations at Plant Vogtle, Warner Robins AFB, and various substations. Work also included completing limited topographic and SUE surveys along roadway corridors stretching from one edge of pavement to the nearest right-of-way. Our largest assignment was completed at Robins Air Force base in support of transmission line re-routing.
01/23 - Ongoing	Chatham County MSA, Chatham County, GA: Field Manager. T2 Utility Engineers provided the following survey services on a task work order basis: right of way and property acquisition plats; road and drainage profile surveys; topographic surveys; wetland delineation surveys; utility location and surveys; drainage corridor surveys; geodetic monumentation surveys; infrastructure inventory; lowest floor elevation surveys; borrow pit surveys; property boundary, right-of-way, and easement surveys; and construction staking and layout.
01/23 - Ongoing	City Of Norcross On-Call Professional Engineering And Design Services (Survey) MSA, Norcross, GA: Surveyor. T2 Utility Engineers provided on-call survey services, including the preparation of legal descriptions and plat maps for easements, construction staking, construction surveys, determining the location of property, boundary, easement and right-of-way lines, utility mapping and topographic surveys. T2 Utility Engineers coordinated with City staff to deliver survey data in the requested format, PDFs and/or CAD files.
08/18 – 12/21	Dekalb County Surveying and Easement Mapping Services MSA, DeKalb County, GA: Field Manager. T2 Utility Engineers provided on-call survey services, including the preparation of legal descriptions and plat maps for easements, construction staking, construction surveys, determining the location of property, boundary, easement and right-of-way lines, utility mapping and topographic surveys. T2 Utility Engineers coordinated with County staff to deliver survey data in an approved method and format for use in a GIS data system.

16. STAFF EXPERIENCE:

Click to return to the Organizational Chart



Firm employed by	TRC Engineers, Inc.		
Name	Durk Krone, PE	Years of relevant experience with this employer	20
Title	QA/QC; Historical Bridge Rehab	Years of relevant experience with other employer(s)	21
Degree(s) / Years / Specialization	MS / 1984 / Civil Engineering; BS / 1982 / Civil Engineering		
Active registration number / state / expiration date	Professional Engineer: 0031955 / LA / 03/31/26		
Year registered	2005	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities	 Durk Krone brings over four decades of experience leading the planning, design, inspection, and construction of complex transportation, municipal, marine, and rail infrastructure projects. Over the course of his career, he has managed numerous transportation, rail, and waterfront projects, including major transportation projects with construction values in excess of \$200 million. For the past 20+ years he has led the delivery of a wide range of projects for the LADOTD that include the rehabilitation of fixed and movable steel bridge structures, design of new concrete bridges, inspection and load rating of simple and complex bridge structures, and the reconstruction of urban roadway facilities. His project assignments have included those progressed using both traditional Design-Bid-Build, as well as such alternate delivery methods as P3 and CMAR. Meets MPR #4/11		

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).
03/20 - Ongoing	S.P. No.: H.005121, LA1/LA415 Connector – Construction Manager at Risk (CMAR), West Baton Rouge Parish, LA (LADOTD): Project Manager for this high-profile project that involves the design of a new connector between LA 1 and I-10 which will improve resiliency and safety by providing a direct connection and evacuation route for areas south of I-10. The estimated \$290 million project is approximately three miles in length and includes a new four-lane roadway and bridge(s) over the Gulf Intracoastal Waterway. Elevated structures are required for much of the project, including an elevated ramp from Northbound LA 1 to the new connector and an elevated ramp from the new connector to LA1 Southbound. Initiated as a Design-Bid-Build procurement, the LADOTD transitioned the project’s delivery method near the end of TRC’s preliminary engineering to a CMAR where TRC is now the Lead Designer working hand-in-hand with the LADOTD and a CMAR contractor.
03/17 - 12/25	S.P. No. 44-17264; H.011965.5, LA 47 over IWGO Rehabilitation, New Orleans, LA (LADOTD): Project Principal for the structural rehabilitation, cleaning and painting of this historic bridge that consists of 1,248 feet of steel main spans with cantilevered arms and tied-arch (main span); 3,304 feet of welded steel girder approaches; 1,590 feet of prestressed girder approach spans; and 480 feet of concrete slab spans. Preliminary and final plans address the repair and rehabilitation of all substructure and superstructure elements. A preliminary jacking analysis and repair scheme for the tied-arch tie girder (chord) repairs was also provided. Served as Team Leader during the performance of a bridge inspection in advance of the design regarding the superstructure girder and truss span inspections. Also provided QC/QA reviews of the inspection report.

STAFF EXPERIENCE

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/15 - 03/15	Bayou Lafourche Movable Bridge Inspections, Lafourche Parish, LA (off-system bridge inspections): Project manager for the special emergency above and underwater inspections of two pontoon bridges. He performed oversight of the inspection and QC/QA of the inspection reports.
06/14 - 08/18	S.P. No. 002562.5 – Bayou LaLoutre Bridge Rehabilitation, St. Bernard Parish, LA (LADOTD): Project manager for the special rehabilitation inspections and rehabilitation design of this vertical lift bridge which included redesign of the bearings, lift tower column base and anchor bolts; steel overhead truss, lift tower, and lift girder repairs; an elevated platform for a new Operator House; and new fender system. He led the construction engineer services, contractor RFIs and submittal.
04/08 - 05/11	44-0641 (700-99-0429) / H.005330.5 (701-65-1215) Little Caillou and Bayou LaCarpe Bridges, Houma, LA (LADOTD): Project Manager for special rehabilitation inspections and rehabilitation designs of two vertical lift bridges - Little Caillou Bayou Bridge (LA 24) and Bayou LaCarpe Bridge (LA 661) in Terrebonne Parish. He also post-design engineering services and contractor RFI responses.
10/98 - 03/05	Route 175 Chincoteague - Chincoteague, VA: Deputy Project Manager for the conceptual study, preliminary and final design for a \$47 million replacement of the Black Narrows Bridge and the single-leaf bascule type movable span across the Chincoteague Channel on Route 175. The alignment contains compound and reverse horizontal curves and crosses open water and wetland areas. Responsibilities included management of subconsultant tasks for roadway, geotechnical, hydraulics, traffic study, utilities, and CADD.
07/10 - 02/18	S.P. No.: 700-24-0031, US 190, Mississippi River Rehabilitation, Baton Rouge, LA (LADOTD): Project Manager for this approximately \$97 million project involving complex bridge rehabilitation work for a 12,200-foot long steel truss bridge spanning the Mississippi River. Work involved engineering and related services for the conceptual, preliminary and final design of numerous steel and/or concrete repairs. Rehabilitation included complete cleaning and painting, and general structural rehabilitation of bridge members including cross frame chord members and connection angles, top lateral bracing members, replacement of main truss vertical and diagonal lacing bars, deteriorated interior stiffeners of main truss verticals, deteriorated diagonals at portals, anchor bolt and column rehabilitation for approach bents, bearing pins and corroded bearings, rehabilitation of false chord expansion devices, replacement of cracked gusset plates, and patching of concrete spalls at bearings and retaining walls. Included removal of the existing lead-based paint and the application of a new coating system. Successfully managed the submittal of 158 stamped and signed sheets (297 sheets total) six months ahead of original schedule at the request of the LADOTD.
04/16-02/20	44-5960 & 44-13321 (H.009730.5 In-depth Bridge Inspection of Complex Structures, Statewide, LA (LADOTD): Project Manager for the in-depth inspections of three complex trusses and three vertical lift bridges over major waterways. Performed QA/QC of the Prime's and TRC's in-depth inspections and reports. Services included: Plan and Document Retrieval and Review and Bridge Inspections.

A photograph of a bridge over a railway track. A white SUV is driving across the bridge. The bridge has a metal railing and is supported by concrete pillars. The railway tracks are visible below the bridge, and there are trees and buildings in the background.

17

17. FIRM EXPERIENCE:

Firm name	WSP USA Inc.		Discipline(s)*	Bridge
Project name	Louisiana Movable Bridges		Firm responsibility (prime or sub?)	Prime
Project number	4400021514	Owner's name	Louisiana Department of Transportation & Development	
Project location	Northeast Louisiana	Owner's Project Manager	Fallon Farber	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802-4438, (225) 379-1986, fallon.farber@la.gov			
Services commenced by this firm (mm/yy)	03/25	Total consultant contract cost (\$1,000's)		\$2,416
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$1,223

Statewide effort to inspect, evaluate, and rehabilitate five swing span movable bridges located at:

- Bayou Tigre (LA 330);
- St. Martinville (LA 96);
- Pierre Pass (LA 70);
- Kelso (LA 27); and
- Little Prairie (LA 82)

The program encompasses comprehensive document reviews; in depth NBIS inspections; coordinated structural, mechanical, and electrical assessments; coatings evaluations; and LRFR load ratings using AASHTOWare BrR/BrD. Development of Scope of Work proposals and definitive rehabilitation reports that identify prioritized, cost-effective repair strategies aimed at extending service life while minimizing closures. Includes managing the preparation of multi disciplinary construction documents—structural, mechanical, electrical, architectural, and geotechnical—along with permitting support and post design engineering services such as construction phase technical review and follow up inspections. All deliverables are produced under LADOTD QA/QC requirements and executed within ProjectWise/AssetWise digital environments in full compliance with AASHTO, FHWA, OSHA, and NEC standards.

Team Members: Trevor Johnson, Max Nassar, Joseph (Todd) Mitchell



17. FIRM EXPERIENCE:

Firm name	WSP USA Inc.		Discipline(s)*	Bridge
Project name	Replacement of I-59/I-20 Bridges over Valley Road		Firm responsibility (prime or sub?)	Prime
Project number	IM-IMGR I059 (459)	Owner's name	Alabama DOT (ALDOT) Bridge Bureau	
Project location	Jefferson County, AL	Owner's Project Manager	Berhanu Woldemichael, PhD, PE	
Owner's address, phone, email	1409 Coliseum Blvd. Montgomery, AL 36110, (334) 322-0158, woldemichaelb@dot.state.al.us			
Services commenced by this firm (mm/yy)	05/25	Total consultant contract cost (\$1,000's)		\$455
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$455

This is a significant infrastructure initiative in Jefferson County (Birmingham area), focused on improving the Interstate system south of the downtown core. The project involves widening and adding lanes to a 2.0-mile segment of I-59/I-20, stretching from Fairfield Boulevard to Valley Road. In addition to expanding capacity, the scope includes the essential replacement of dual bridges over Weibe Drive (BIN 9517, 9518) and Valley Road (BIN 9519, 9520), as well as the removal of dual bridges located 0.15 miles north of Milstead Road.

WSP performed structural design and development of plans of the superstructure and substructure of the two replacement bridges. Tasks also included coordinating with geotechnical and hydraulic engineers for design of deep foundations. WSP also designed the steel plate girder span crossing the I-59/I-20 off ramp. The two bridges' superstructure consists of precast prestressed concrete (PPC) girders supported by reinforced concrete column bents with drilled shafts.

Team Members: Mark Pearson, Hatem Seliem



17. FIRM EXPERIENCE:

Firm name	WSP USA Inc.		Discipline(s)*	Bridge
Project name	U.S. 98 Over Homochitto River Bridge Replacement		Firm responsibility (prime or sub?)	Prime
Project number	BR-0046-01(016)/100888-301000	Owner's name	Mississippi DOT (MDOT)	
Project location	Franklin County, MS	Owner's Project Manager	Micah Dew, PE, Deputy Director of Structures, Asst. State Bridge Engineer	
Owner's address, phone, email		401 North West Street, Jackson, MS 39201, (601) 359-7200, mdew@mdot.ms.gov		
Services commenced by this firm (mm/yy)		11/21	Total consultant contract cost (\$1,000's)	\$709
Services completed by this firm (mm/yy)		06/2026	Cost of consultant services provided by this firm (\$1,000's)	\$709

WSP USA was involved as a consultant/engineer for the Mississippi Department of Transportation (MDOT) on the US 98 Homochitto River Bridge project near Charlotte, Mississippi, designing a new, modern post-tension concrete bridge structure to replace an aging truss bridge. The project aimed to improve safety, lengthen, and modernize the bridge over the Homochitto River, a recurring challenge due to flooding, with WSP contributing engineering expertise for the concrete bridge design. This \$25.7 million construction contract is expected to be completed in 2026.

WSP provided final bridge design services and prepared contract plans and specifications (\$398k) for the new six span, 935 foot replacement bridge over the Homochitto River. The main superstructure unit is a 560 foot, three span continuous post-tensioned splice concrete girders using 78" Florida I-Beams, haunched over the main interior bents. The three approach spans are 125' -0" each with 54" Florida I-Beam superstructure. Sub-structure is reinforced concrete post and beam interior bents with 72" diameter drilled shafts and reinforced concrete end bent caps on 24" diameter steel pipe piles. Foundation options were investigated, and selected foundations were optimized through coordination between WSP structural engineers and MDOT geotechnical engineer. WSP is also providing Phase C (construction phase) shop drawing reviews, post-tension girder placement, tendon installation and grout placement monitoring, inspections and engineering reviews (\$311k).

Team Members: Mark Pearson

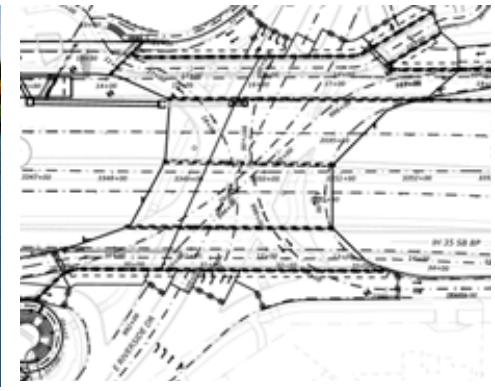


17. FIRM EXPERIENCE:

Firm name	WSP USA Inc.		Discipline(s)*	Bridge
Project name	I-35 Capital Express Central Lady Bird Lake		Firm responsibility (prime or sub?)	Prime
Project number	0015-13-428	Owner's name	Texas Department of Transportation	
Project location	Austin, Texas	Owner's Project Manager	Jesse Bullard, PE	
Owner's address, phone, email	7901 N. IH 35, Austin, TX 78753, (512)) 832-7327, Jesse.Bullard@txdot.gov			
Services commenced by this firm (mm/yy)	06/21	Total consultant contract cost (\$1,000's)		\$22,000
Services completed by this firm (mm/yy)	09/24	Cost of consultant services provided by this firm (\$1,000's)		\$17,950

WSP is the designer of record for this highway corridor reconstruction and neighborhood reconnection project that includes three miles of Interstate Highway 35 (I-35) from the SH71 interchange toward the north across Lady Bird Lake to Holly Street. The improved highway includes replacing three existing Lady Bird Lake bridges, building a single-point urban interchange (SPUI) at E Riverside Dr to improve traffic flow, lowering the interstate roadway, and adding two managed, non-tolled, high-occupancy vehicle lanes in each direction. The project also reconstructs cross-street bridges, adds pedestrian and bicycle shared use paths that include two new bridges across Lady Bird Lake, builds a pedestrian bridge over I-35 near Woodland Ave., makes additional safety and mobility improvements within the project limits, and preserves the existing Butler Trail boardwalk in the lake. WSP continues to serve TxDOT on this project under a separate construction phase services contract.

Team Members: Jonathon Seddelmeyer

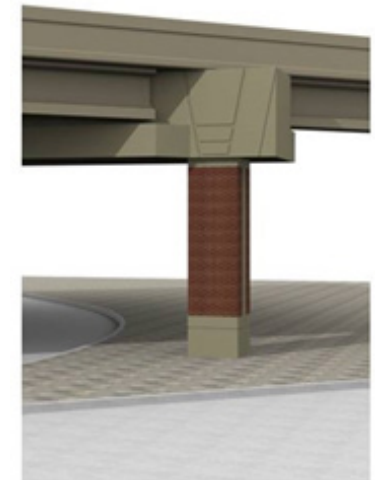
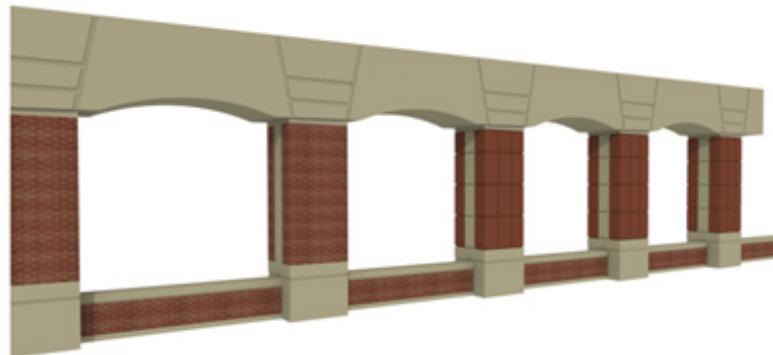


17. FIRM EXPERIENCE:

Firm name	WSP USA Inc.		Discipline(s)*	Bridge
Project name	I-35E Lewisville		Firm responsibility (prime or sub?)	Prime
Project number	0196-02-126, etc.	Owner's name	Texas Department of Transportation	
Project location	Lewisville, Texas	Owner's Project Manager	Ashton Strong, PE	
Owner's address, phone, email	4777 E US Hwy 80, Mesquite, TX 75150, (214) 320-6297, Ashton.Strong@txdot.gov			
Services commenced by this firm (mm/yy)	10/19	Total consultant contract cost (\$1,000's)		\$6,100
Services completed by this firm (mm/yy)	01/25	Cost of consultant services provided by this firm (\$1,000's)		\$4,900

WSP is the designer of record for this highway corridor reconstruction and operational improvement project that includes 2.3 miles of Interstate Highway 35E (I-35E) from south of Corporate Drive to north of the Business 121 interchange. The improved highway section has additional capacity for future managed, high-occupancy vehicle lanes, and intersections have improved ITS, signalization, and pedestrian safety. This project includes replacing four grade separations, the continuous frontage roads and connecting ramps, and has significant utility and drainage relocations. I-35E at Corporate Drive is being flipped from an underpass to an overpass, and three phases are needed to maintain interstate traffic throughout construction. The City of Lewisville provided supplemental funding for WSP to enhance aesthetics with bent cap and column formliners, wall panel graphics, painted concrete, brick pavers, landscaping, and improved luminaires and traffic signals. WSP continues to serve TxDOT on this project under a separate construction phase services contract.

Team Members: Jonathon Seddelmeyer



17. FIRM EXPERIENCE:

Firm name	Gresham Smith	Discipline(s)*	Bridge
Project name	US 71 Spring Street Bridge – Emergency Repairs - Derailment	Firm responsibility (prime or sub?)	Prime
Project number	4400013322	Owner's name	Louisiana Department of Transportation and Development
Project location	Statewide, Louisiana	Owner's Project Manager	Haylye Brown
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA, (225) 379-1205, haylye.brown@la.gov		
Services commenced by this firm (mm/yy)	05/20	Total consultant contract cost (\$1,000's)	\$120
Services completed by this firm (mm/yy)	09/20	Cost of consultant services provided by this firm (\$1,000's)	\$101

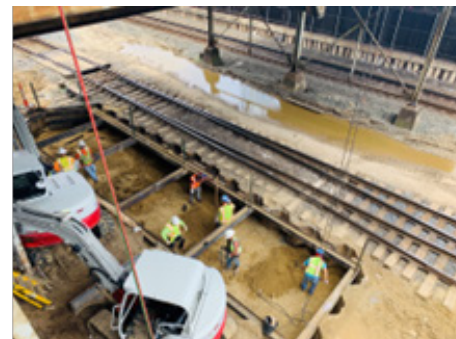
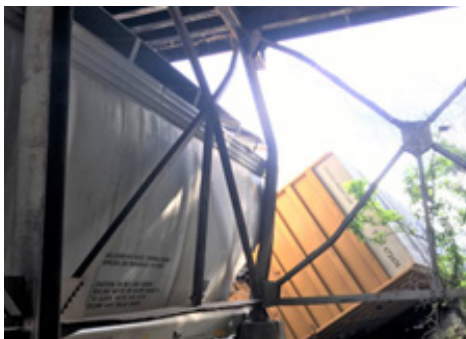
Complex Bridges: Gresham Smith was under contract with LADOTD to perform Complex Bridge Inspections under a five-year IDIQ contract. This contract was utilized to engage Gresham Smith on an emergency basis to address the damages; and to perform repairs to the US 71 Spring Street Bridge

Train Derailment and Inspection: In April 2020, a train derailment impacted the US 71 Bridge over KCS Railroad in downtown Shreveport, causing the emergency closure of the bridge. LADOTD assigned Gresham Smith under TO #2 to perform an emergency inspection and to prepare design plans to replace Bent 3, and to install a concrete crash wall for future protection. Gresham Smith was on site that week to perform an inspection and obtain measurements and to evaluate potential repairs.

Bridge Repairs and Crash Wall Design: Damages required the replacement of Bent 3. In order to support the deadload of the structure, Gresham Smith worked closely with the contractor to develop a temporary strongback system on the deck to jack and support the deck and stringers during removal of the bent. Repairs included the installation of helical piles to resist railroad crash loads on the foundations and utilization of rolled shapes to expedite steel fabrication. A temporary shoring system was designed to support the railroad traffic loads during excavation for the crash wall footer.

Construction Consultation: Gresham Smith was involved in all aspects of monitoring the construction activities including calibration of the helical pile installation, installation of temporary shoring of the railroad to support rail traffic, framing and jacking of the temporary support system on the deck surface for removal of Bent 3, steel repairs and bolt replacement, and construction of the crash wall.

Team Members: Bert Moore, John Weres, Courtney Rome, Kendra McCoy



17. FIRM EXPERIENCE:

Firm name	Gresham Smith		Discipline(s)*	Bridge
Project name	Broadway Viaduct Replacement		Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Tennessee Department of Transportation	
Project location	Nashville, TN	Owner's Project Manager	Brian Egan	
Owner's address, phone, email	505 Deaderick Street, Suite 1200 Nashville, TN 37243, (615) 741-2848, brian.egan@tn.gov			
Services commenced by this firm (mm/yy)	06/21	Total consultant contract cost (\$1,000's)		\$2,800
Services completed by this firm (mm/yy)	04/24	Cost of consultant services provided by this firm (\$1,000's)		\$2,800

Gresham Smith was selected to design and replace the aging Broadway Viaduct over CSX RR yard and 11th Avenue in Nashville, Tennessee. This was an alternate delivery project using the Construction Manager/General Contractor (CM/GC) delivery method. Additionally, the project team implemented Accelerated Bridge Construction (ABC) techniques to minimize vehicular and pedestrian traffic impacts and socio-economic impacts to local businesses and the tourism industry. The use of ABC methods replaced the bridge in about 12 months instead of multiple years of traditional phased construction with only eight weeks of full roadway closure.

Gresham's bridge and roadway teams worked very closely with TDOT and CSX railroad to improve clearances over the RR while tying into the current roadway grades at the ends of the existing bridge to minimize ROW acquisition and impacts to adjacent businesses and developments in all four quadrants of the bridge including the Union Station Hotel which is listed on the National Registry of Historic Places. Other significant involvement on this project included significant utility coordination and deconfliction efforts as well as Railroad coordination.

Only an eight-week maximum closure of Broadway was allowed, so close collaboration with TDOT and the CM/GC was used to develop the ABC method to successfully accomplish this. The closure was completed in early 2023 with the bridge completion the end of May 2023.

Team Members: Adam Davidson, Donald McCrary, John Weres





FIRM EXPERIENCE

17. FIRM EXPERIENCE:

Firm name	Gresham Smith		Discipline(s)*	Traffic
Project name	LADOTD Traffic Engineering Retainer Contract TO#5: I-10 TMP West of LA 108 Interchange to I-210 Interchange		Firm responsibility (prime or sub?)	Prime
Project number	H.009620.5-1	Owner's name	Louisiana Department of Transportation and Development	
Project location	Lake Charles, Louisiana	Owner's Project Manager	Ryan Hoyt, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, (225) 379-1929, ryan.hoyt@la.gov			
Services commenced by this firm (mm/yy)	04/18	Total consultant contract cost (\$1,000's)		\$191
Services completed by this firm (mm/yy)	05/19	Cost of consultant services provided by this firm (\$1,000's)		\$110

LADOTD developed design plans for the Rubblization and Overlay of I-10 from just west of the LA 108 interchange to the I-210 interchange. This project included: the mill and overlay the asphalt portions of I-10, the removal and replacement of the concrete panels on mainline I-10 through the LA 108 interchange, installation of an auxillary lane in both directions between the LA 108 and I-210 interchanges, and the widening of the bridges over the Maple Fork Creek to include inside and outside shoulders

The objective of the Transportation Management Plan (TMP) is to identify the challenges and strategies to address these challenges in order to minimize the traffic delays associated with the lane closures, demand volumes and incidents within the construction limits and primary detour roadways on I-10 and I-210 within the Lake Charles Metropolitan Area. In addition, this project also updated the TMP that was performed for the I-210 Prien Lake Bridge Re-Decking and Safety Improvement Project (H.010916.5) dated January 2016.

The TMP was prepared following the Level 4 checklist as outlined in Louisiana Department of Transportation and Development (LADOTD) Engineering Directives and Standards Manual (EDSM) VI.I.I.8 (Transportation Management Plan (TMP)), dated March 13, 2012. As outlined in the EDSM, the necessary tasks included: traffic counts and queue analysis, safety analysis, alternate route/detour analysis, stakeholder involvement, temporary traffic control, and documentation.

Team Members: Bert Moore, Rebecca Murray

17. FIRM EXPERIENCE:

Firm name	Stanley Consultants, Inc.		Past Performance Evaluation Discipline(s)*	Road
Project name	LA 30 Roundabouts at Tanger Mall and I-10		Firm Responsibility (Prime Or Sub?)	Prime
Project number	H.010960.5	Owner's Name	Louisiana Department of Transportation and Development (LADOTD)	
Project location	Ascension Parish, LA – District 61	Owner's Project Manager	Joshua Harrouch, PE, PTOE	
Owner's Address, Phone, Email	1201 Capitol Access Rd, Baton Rouge, LA, (225) 242-4640, joshua.harrouch@la.gov			
Services Commenced By This Firm (MM/YY)	03/17	Total consultant contract cost (\$1,000's)		\$1,074
Services Completed By This Firm (MM/YY)	07/22	Cost of consultant services provided by this firm (\$1,000's)		\$825

Stanley Consultants provided engineering and related services to develop full-size construction plans for roundabouts at the intersection of LA 30 and Tanger Blvd, and at the Eastbound and Westbound ramp termini at the LA 30 and I-10 Interchange in Gonzales, LA.

Project Description: In order to relieve congestion and mitigate intersection safety concerns through the LA 30 corridor in Gonzales, LA, Stanley Consultants provided design phase services for the replacement of three existing signalized intersections with three roundabouts. Early and often coordination with LADOTD's Traffic and Road Design Sections resolved concerns related to constructability issues and roundabout operations. Design challenges overcome during the project included the use of spiralized geometry; significant utility coordination with the City of Gonzales and their representative engineering firm; sequencing construction to maintain all travel lanes through this high ADT corridor and through the I-10 ramp termini; and addressing the constant ongoing development within the project area during design. Our team had to be nimble to keep up with and accommodate the many changes and evolving conditions.

Project Success: Complex spiral geometry was required to provide all necessary turning movements through each of the three roundabouts included in this project. This project was sequenced to be constructed while maintaining all lanes of through traffic.

Team Members: Jesse Tisdale, Adam Fields



17. FIRM EXPERIENCE:

Firm Name	Stanley Consultants, Inc.		Past Performance Evaluation Discipline(s)*	Road
Project Name	US 61: Bluebonnet Blvd – S. End US 190		Firm Responsibility (Prime Or Sub?)	Prime
Project Number	H.012964	Owner's Name	Louisiana Department of Transportation and Development (LADOTD)	
Project Location	East Baton Rouge Parish, LA – District 61	Owner's Project Manager	Brian May, PE	
Owner's Address, Phone, Email		1201 Capitol Access Rd, Baton Rouge, LA, (225) 379-1059, brian.may@la.gov		
Services Commenced By This Firm (MM/YY)		06/18	Total consultant contract cost (\$1,000's)	\$81
Services Completed By This Firm (MM/YY)		12/20	Cost of consultant services provided by this firm (\$1,000's)	\$81

Stanley Consultants was contracted by LADOTD to perform engineering design services to mill and overlay US 61 (Airline Highway) from its intersection with Bluebonnet Blvd to the US 190 Overpass. The existing Airline Highway pavement was experiencing significant fatigue cracking, spot locations of base course failures and some minor rutting. The objective of this project was to provide a new riding surface through the application of a mill and overlay.

Project Description: Airline Highway is considered an urban arterial roadway and is a vital route serving local and through traffic traveling through the Baton Rouge area. The scope of work included Topographic Survey, Preliminary Plans and Final Plans. The solution to the fatigue cracking and minor rutting was to mill the existing pavement 2" in depth, provide a 2" asphalt concrete overlay, replace all pavement markings, provide spot patching at specific locations showing more extensive damage, replacing all guard rails and repairing bridge joints on the US 190 overpass. During design it was determined that the existing bridge joints on the US 190 Overpass were deteriorating. Stanley Consultants worked with LADOTD to implement bridge joint repair details into the plans.

Special Project Aspects: This Pavement Preservation project provided a two-inch mill and overlay to the riding surface. Spot locations of water ponding were remedied by providing median curb cuts allowing water to flow in its natural direction

Team Members: Blake Roussel, Adam Fields



FIRM EXPERIENCE

17. FIRM EXPERIENCE:

Firm name	Stanley Consultants, Inc.		Past Performance Evaluation Discipline(s)*	Road
Project name	I-12 LA 21 to US 190 and LA 1077 to LA 21		Firm responsibility (prime or sub?)	Prime
Project number	H.011137.5	Owner's name	Louisiana Department of Transportation and Development (LADOTD)	
Project location	St. Tammany Parish, LA	Owner's Project Manager	Jacob Fusilier, PE, PMP	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, (225) 379-1947, Jacob.Fusilier@LA.GOV			
Services commenced by this firm (mm/yy)	06/18	Total consultant contract cost (\$1,000's)		\$2,756
Services completed by this firm (mm/yy)	12/20	Cost of consultant services provided by this firm (\$1,000's)		\$2,003

Stanley Consultants provided all engineering services required for preliminary and final roadway design plans on two successive projects along I-12 in St. Tammany Parish. Stanley Consultants also prepared Independent Cost Estimation and Critical Path Modeling (CPM) for both projects. Stanley Consultants provided QAQC, coordination and overall project oversight for the bridge design plans and geotechnical services.

Project Description: LA 21 to US 190 incorporated approximately 3.7 miles of improvements. LA 1077 to LA 21 incorporated approximately 3.4 miles of improvements. These two successive projects along the I-12 corridor involved engineering and related services required to widen and rehabilitate I-12 to the median side from a four-lane freeway to a six-lane freeway section in both directions, including auxiliary lanes connecting Pinnacle Parkway to US 190.

Additionally, both projects incorporated bridge widenings and rehabilitation crossing LA 21 and the Tchefuncte River. Stanley Consultants performed the initial assessment of existing bridge conditions, laying the groundwork for a successful design. Throughout the design process, Stanley Consultants provided project management, design reviews and quality control reviews during every milestone for all bridges.

A significant amount of communication and coordination effort was mandatory with District 62 and LADOTD Headquarters to successfully complete a Level 4 TMP and the development of the sequence of construction maintaining lanes of traffic both directions over the Tchefuncte River. The Stanley Consultants Team provided construction support to help facilitate a smooth and successful construction phase.

Team Members: Jesse Tisdale





FIRM EXPERIENCE

17. FIRM EXPERIENCE:

Firm name	Terracon Consultants, Inc.		Discipline(s)*	Geotechnical
Project name	I-49 South at Verot School Road		Firm responsibility (prime or sub?)	Subconsultant
Project number	H.011235	Owner's name	Louisiana Department of Transportation and Development	
Project location	Lafayette, LA	Owner's Project Manager	Corey Landry, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, (225) 379-1387, corey.landry@la.gov			
Services commenced by this firm (mm/yy)	06/18	Total consultant contract cost (\$1,000's)		\$468
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$468

Terracon was the geotechnical subconsultant to Huval and Associates. Terracon performed 30 deep borings, 67 shallow borings, including 33 located within the existing roadways, 15 CPT soundings, lab testing, installed and monitored piezometer, and prepared soil surveys and boring logs for planned new bridges, roadway widening, and retaining wall structures.

Prior to mobilizing exploration equipment, Terracon's drilling manager and drilling personnel conducted extensive site visits to mark boring locations, meet with private landowners and utility locators, and verify boring access and site conditions. Terracon coordinated field activities with LADOTD district personnel, including the required traffic control. Traffic control, including shoulder and both daytime and overnight lane closures were required to complete several borings. Terracon mobilized multiple pieces of exploration equipment to complete all field work in a timely and provided regular updates to team members about the project.

After completing the field exploration and lab testing programs, Terracon prepared pile nominal resistance calculations for the planned bridge substructures in accordance with LADOTD standards. Terracon additionally performed stability and settlement analyses for the MSE Walls. Terracon communicated with the design team and updated the analyses and recommendations throughout the design process, as necessitated by changes in the design.

Team Members: Lynne Roussel, Steve Greaber, Ryan Poindexter, Brian Alexander, Matt Minton



17. FIRM EXPERIENCE:

Firm name	Terracon Consultants, Inc.		Discipline(s)*	Geotechnical
Project name	US 71 Emergency Bridge Repair		Firm responsibility (prime or sub?)	Subconsultant
Project number	H.014361	Owner's name	Gresham Smith	
Project location	Shreveport, LA	Owner's Project Manager	John Weres, PE	
Owner's address, phone, email	10000 Perkins Rowe #280, Baton Rouge, LA 70810; (225) 960-5480; john.were@greshmansmith.com			
Services commenced by this firm (mm/yy)	05/20	Total consultant contract cost (\$1,000's)		\$13
Services completed by this firm (mm/yy)	08/20	Cost of consultant services provided by this firm (\$1,000's)		\$13

Terracon was the geotechnical subconsultant to Gresham Smith. The project involved the repair of the east abutment of the N. Market Street (US 71) bridge over the KCS railroad in Shreveport, Louisiana, which was damaged by a train derailment. The project included repairing damaged steel columns and constructing a new cast in place reinforced concrete crash wall to protect the bridge bent, supported by a deep foundation system.

Terracon provided geotechnical engineering services that included subsurface exploration through a deep soil boring and a shallow hand auger, laboratory testing, and evaluation of site soil and groundwater conditions. Terracon developed geotechnical recommendations for foundation design, excavation and shoring considerations, and construction sequencing, and provided soil parameters to support the design of a helical pile foundation system and temporary cofferdam. Terracon also performed lateral load analyses to support foundation performance criteria and provided seismic site classification and general construction recommendations to support the implementation of the emergency repairs.

Team Members: Lynne Roussel, Steve Greaber, Brian Alexander, Matt Minton





FIRM EXPERIENCE

17. FIRM EXPERIENCE:

Firm name	Terracon Consultants, Inc.		Discipline(s)*	Geotechnical
Project name	Nelson Road Extension and Bridge		Firm responsibility (prime or sub?)	Subconsultant
Project number	H.011235	Owner's name	Louisiana Department of Transportation and Development	
Project location	Lafayette, LA	Owner's Project Manager	Kristy Smith, PE	
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA 70802, (225) 379-1387, Kristy.Smith2@la.gov			
Services commenced by this firm (mm/yy)	07/18	Total consultant contract cost (\$1,000's)		\$364
Services completed by this firm (mm/yy)	06/21	Cost of consultant services provided by this firm (\$1,000's)		\$364

Terracon provided soil borings, lab testing, boring logs, and engineering for a planned roadway extension and bridge. Provided pile nominal capacity calculations and recommendations for resistance factors for design. Provided design support for impact dolphins to be placed in front of the bridge to protect the superstructure from impact by large ships from the adjacent Port of Lake Charles.

Team Members: Lynne Roussel, Steve Greaber, Ryan Poindexter, Brian Alexander, Matt Minton





FIRM EXPERIENCE

17. FIRM EXPERIENCE:

Firm name	Watermark Design Group, LLC		Discipline(s)*	Bridge
Project name	LADOTD Contract 5 for Movable Bridges (6)		Firm responsibility (prime or sub?)	Subconsultant
Project number	State Project Nos. H.11998, H.011990, H.013819, H.011997, H.010001	Owner's name	Department of Transportation and Development sub to HDR Engineering, Inc.	
Project location	Vermilion, Lafayette, St. Martin, Calcasieu and Lafayette Parishes, LA	Owner's Project Manager		
Owner's address, phone, email	5750 Johnson Street, Suite 105, Lafayette, LA 70503, (225) 465-6361, Wesley.jacobs@hdrinc.com			
Services commenced by this firm (mm/yy)	04/25	Total consultant contract cost (\$1,000's)		Unknown
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$164

The project includes the rehabilitation of six Bridge Tenders Houses located on vertical lift bridges on LA-14, LA-27, LA-92, LA-350 and LA-378 throughout Louisiana. Watermark Design Group, LLC (Watermark) reviewed the existing conditions of the building's exterior, doors, windows, interior finishes and roof and have determined, in conjunction with HDR, Inc. that the scope of work is as follows:

- Removing and replacing all existing windows with new, impact resistant glazing. All new glazing will be tinted or have interior shading devices installed to minimize heat gain into the tender's work environment.
- Removing and replacing all existing interior and exterior doors with insulated, commercial-grade doors and frames with appropriate weatherstripping and updated hardware
- Remove and replace all finish flooring ceiling with new material
- Repair and re-paint all interior wall finishes and damaged areas as required
- Repair and re-finish roof access ladder and canopy as required, inspect all connections to the building
- Clean all exterior wall surfaces and inspect and re-seal all wall penetrations
- Remove and replace all furniture/millwork with new construction to facilitate a more efficient layout for tenders
- Install a new weather-resistant roofing system with updated drainage, flashing and upgraded insulation

Team Members: Alton Davis



17. FIRM EXPERIENCE:

Firm name	Watermark Design Group, LLC		Discipline(s)*	Bridge
Project name	LADOTD Contract 2 for Movable Bridges (WSP)		Firm responsibility (prime or sub?)	Subconsultant
Project number	State Project Nos. H.012003, H.011995, H.010007, H.012568, H.12000	Owner's name	Department of Transportation and Development sub to WSP, Inc.	
Project location	Vermilion, St. Martin, Assumption and Cameron Parishes, LA	Owner's Project Manager	Trevor Johnson, PE, Director	
Owner's address, phone, email		5411 Skycenter Drive, Ste. 650, Tampa, FL 33607, (813) 520-4425, trevor.johnson@wsp.com		
Services commenced by this firm (mm/yy)		06/25	Total consultant contract cost (\$1,000's)	Unknown
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)	\$130

The project includes the rehabilitation of five Bridge Tenders Houses located on vertical lift bridges on LA-330, LA-96, LA-27 and LA-82 throughout Louisiana. Watermark Design Group, LLC (Watermark) reviewed the existing conditions of the building's exterior, doors, windows, interior finishes and roof and have determined, in conjunction with WSP, Inc. that the scope of work is as follows:

- Removing and replacing all existing windows with new, impact resistant glazing. All new glazing will be tinted or have interior shading devices installed to minimize heat gain into the tender's work environment.
- Removing and replacing all existing interior and exterior doors with insulated, commercial-grade doors and frames with appropriate weatherstripping and updated hardware
- Remove and replace all finish flooring ceiling with new material
- Repair and re-paint all interior wall finishes and damaged areas as required
- Repair and re-finish roof access ladder and canopy as required, inspect all connections to the building
- Clean all exterior wall surfaces and inspect and re-seal all wall penetrations
- Remove and replace all furniture/millwork with new construction to facilitate a more efficient layout for tenders
- Install a new weather-resistant roofing system with updated drainage, flashing and upgraded insulation

Team Members: Alton Davis



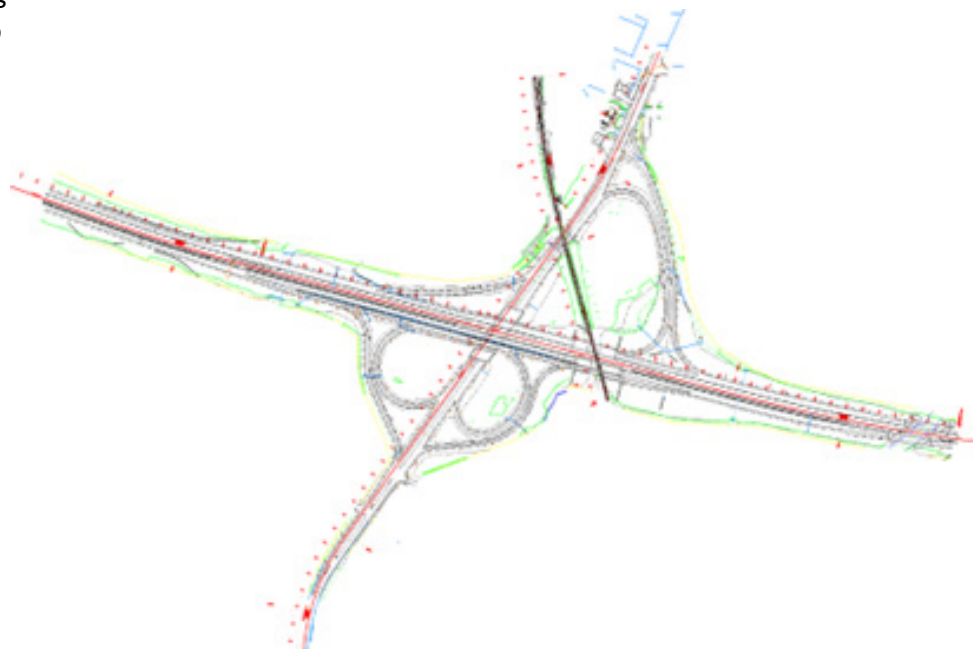
17. FIRM EXPERIENCE:

Firm name	Lazenby & Associates, Inc.		Discipline(s)*	Survey
Project name	US 371: KCS RR Overpasses (HBI)		Firm responsibility (prime or sub?)	Prime
Project number	S.P.N. H.012030	Owner's name	Louisiana Department of Transportation and Development	
Project location	Webster Parish	Owner's Project Manager	Steve A. LeBlanc, PLS	
Owner's address, phone, email	P.O. Box 94245, Baton Rouge, LA 70804-9245, (225) 379-1292, Steve.LeBlanc2@la.gov			
Services commenced by this firm (mm/yy)	12/22	Total consultant contract cost (\$1,000's)		\$222.3
Services completed by this firm (mm/yy)	03/23	Cost of consultant services provided by this firm (\$1,000's)		\$222.3

Lazenby & Associates, Inc. is the prime consultant on this project, performing topographic surveying services within the existing US 371/I-20 interchange ROW for existing roadway lighting improvements. Approximately 3,800 feet along US 371 (urban minor arterial) and 5,600 feet along I-20 (urban interstate) located in Minden, LA is included in the topographic survey limits.

Static/RTK GPS survey methods were used to establish horizontal and vertical control for the field survey. Conventional survey methods using total stations and digital levels were used to collect the topographic survey data for the project. In addition, 3D LIDAR point clouds were collected using both stationary terrestrial tripod mounted scanner and UAV scanner payload. Topographic features were extracted from the 3D point cloud such as hard surface pavement, bridge structures, traffic signs, overhead truss sign supports, guardrails, and existing traffic lighting. UAV photogrammetry was collected to assist with the QA/QC validation of the topographic survey. In addition to the collection of topographic survey features, other surveying services include the establishment of referenced iron rods along the project to define the GPS control, locating and research of ownership of all utilities within the limits of the topographic survey using LA One Call and preparation of an existing drainage map of the project area. An existing DTM was developed using surface elevations collected and existing alignments were calculated along the US 371/I-20 corridors, including all interchange ramps.

Team Members: Ronald Riggan, Randy Hammons, James Ellingburg, Noah Sampognaro



17. FIRM EXPERIENCE:

Firm name	Lazenby & Associates, Inc.		Discipline(s)*	Survey
Project name	Topographic Survey I-12 (LA 21-US 190) & I-12 (US 190-LA 59)		Firm responsibility (prime or sub?)	Subconsultant
Project number	Contract No. 4400005020	Owner's name	Louisiana Department of Transportation & Development	
Project location	St. Tammany Parish I-12 (LA 21-LA 59)	Owner's Project Manager	Nicholas Olivier, PE	
Owner's address, phone, email	LADOTD Location & Survey Section and Roadway Design Section, 1201 Capitol Access Road, Baton Rouge, LA 70802-4438, (225) 379-1133, Nicholas.Olivier@La.gov			
Services commenced by this firm (mm/yy)	02/15	Total consultant contract cost (\$1,000's)		\$1,189.3
Services completed by this firm (mm/yy)	02/16	Cost of consultant services provided by this firm (\$1,000's)		\$513.2

This project consisted of conducting a topographic survey and location of subsurface utilities along a 8.89 mile section of Interstate Highway I-12 in St. Tammany Parish. This section of interstate highway though Covington, Louisiana, is heavily traveled and the LDOTD is widening the corridor from a four-lane divided roadway to a six-lane divided roadway. The section of I-12 surveyed in this project extended from west of LA 21 to east of LA 59 for a distance of 8.89 miles. Lazenby & Associates, Inc. served as a subconsultant to SJB Group, L.L.C. and performed approximately 48% of the total survey project, including a hydrographic survey across the Tchefuncte River at the I-12 bridge crossing.

The topographic survey was performed within a heavily traffic section of I-12 by equipping the survey crew with three Trimble robots so that crew members could advance down both sides of the right-of-way and the grass median simultaneously. Safety of the survey crew members and the traveling public was of the utmost importance.

All survey crew members used on this project had received LDOTD Work Zone Training certifications for Flagger, Traffic Control Technician and Traffic Control Supervisor after completing ATSSA approved Traffic Control courses.

Team Members: Paul Fryer, Randy Hammons, Ronald Riggan, James Ellingburg

17. FIRM EXPERIENCE:

Firm name	T2 UES, Inc.		Discipline(s)*	Other (SUE Services)
Project name	I-49 Lafayette Connector		Firm responsibility (prime or sub?)	Subconsultant
Project number	H.004273	Owner's name	LADOTD	
Project location	Lafayette Parish, LA	Owner's Project Manager	Timothy Nickel, PE	
Owner's address, phone, email	1201 Capitol Access Road, Baton Rouge, LA 70802, (225) 379-1232, timothy.nickel@la.gov			
Services commenced by this firm (mm/yy)	07/15	Total consultant contract cost (\$1,000's)		\$1,417
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$1,417

T2ue provided records research (CI/ASCE 38-02 Quality Level D), designating (CI/ASCE 38-02 Quality Level B) and locating (CI/ASCE 38-02 Quality Level A) subsurface utility engineering throughout the seven-mile project corridor. T2ue was given multiple subsurface utility engineering tasks in the process of aiding the design team. T2ue developed a comprehensive map based on record collection and discussions with utility representatives. From this, the design team had a preliminary utility map to determine larger systems to avoid during preliminary design. Once the Quality Level D map was complete T2ue began its field investigation of Quality Level B designating. This immense task required major coordination efforts to schedule crews for T2ue and the multiple survey crews on the team to ensure that the utility markings were collected timely and correctly. T2ue was able to bring in resources from other regions to increase the productivity of the local crews and meet project milestones. The mapping data from both survey firms was compiled into an organized central location in order to properly review. This review is a part of T2ue's stringent Quality Control process that goes into projects large and small and overseen by experienced Subsurface Utility Engineering professionals. After compiling the Quality Level B map, T2ue began its Quality Level A portion of the project to establish elevations on critical utility systems as well as unknown utilities found in the Quality Level B mapping. T2ue's overall efforts established an extensive Quality Level B map with Quality Level A information throughout the project corridor in combination with the Utility Coordination to keep utility owners aware of the mapping progress.

Team Members: Suzanne McCain

17. FIRM EXPERIENCE:

Firm name	TRC Engineers, Inc.		Discipline(s)*	Bridge
Project name	I-49 North (I-220 to MLK Jr. Drive)		Firm responsibility (prime or sub?)	Prime
Project number	H.003886.5	Owner's name	Louisiana Department of Transportation and Development	
Project location	Shreveport, Caddo Parish, LA	Owner's Project Manager	Paul Vaught, III, PE	
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70802-4438, (225) 379-1816, Paul.VaughtIII@LA.gov			
Services commenced by this firm (mm/yy)	06/06	Total consultant contract cost (\$1,000's)		\$7,294
Services completed by this firm (mm/yy)	09/19	Cost of consultant services provided by this firm (\$1,000's)		\$3,428

TRC was selected by the LADOTD to provide all engineering services associated with the provision of Stage 3 Preliminary and Final Bridge Plans and Load Ratings for a fully-controlled interstate class roadway (I-49) on new alignment. Also included was a roadway alignment evaluation using InRoads software. The construction cost of the project was \$171 million.

The project begins at its proposed interchange with I-220, and proceeds in a northerly direction for approximately one mile to a proposed interchange with Martin Luther King, Jr. Drive (LA 3194). The project included the design of a portion of the I-49/I-220 interchange, and a partial cloverleaf interchange at Martin Luther King, Jr. Drive. Only connections from I-220 to I-49, to the north of I-220, from Martin Luther King, Jr. Drive to I-49, and to the south of Martin Luther King, Jr. Drive were included in the construction plans.

The project included the design and load rating for a total of seven new structures. The Ramp EN (3,070'), SE (3,300') and WN (700') bridges consisted of dual designs with precast concrete segmental post-tensioned box girder and trapezoidal steel box girder superstructure alternates. The I-49 over MLK Dr. bridges (462' each) consist of BT-72 precast prestressed concrete bulb-T girder superstructures, while the I-220 over Russell Rd. bridges (322.5' each) consist of widening the existing steel plate girder bridges. To accommodate construction of the I-49 Bridge over MLK Jr. Drive, a detailed construction sequence was developed to accommodate the depression of MLK Jr. Drive under the I-49 bridges. A bridge architect was included on the TRC team to incorporate context-sensitive aesthetic concepts within the bridge design that included the incorporation of decorative lighting, decorative panels, rustications, and alternative coating system colors.

Team Members: Durk Krone



The resounding success of this project was recognized by the ACEC of Louisiana as the Grand Award Category Winner for Category C: Structural Systems

(TRC's Mike Paul and Durk Krone shown pictured left to right)





Project Area Legend

- Project bridges
- Railroad corridor
- Approach ramps from I-20 Interchange
- Buildings in ROW
- Festival Plaza
- Central Business District

SECTION SECTION SECTION

18

18. APPROACH AND METHODOLOGY:

The US 71 ICG RR Bridge Rehab and Replacement project has numerous technical challenges and key stakeholders within a relatively small site. WSP has assembled a diverse team of experts with direct knowledge of this site (as seen on the Section 18 Tab) to execute the project with the finesse that is required.

PROJECT UNDERSTANDING

The rehabilitation of the Spring St ICG RR Overpass and the replacement of the two Market St ICG RR Overpasses are separate projects in the Louisiana DOTD (LADOTD) program with shared goals, and the projects are at different stages of execution:

- H.012008 US 71: ICG Railroad Overpass Rehab (HBI) – Stage 0
- H.012009 US 71: Market St Bridge over ICG RR (HBI) – Stage 3

All three bridges have a design speed of 25 MPH, load posting, and do not satisfy safety criteria for roadway deck width and RR underclearance.

Current Bridge Inventory and Appraisal Coding

Overpass	Spring St.	Market St. (E)	Market St. (W)
Year Built	1937	1940	1940
Funct. Class	Prin. Arterial	Prin. Arterial	Collector
Lanes	4	2	2
Struct. Eval.	4	2	3
Deck Geometry	2	2	2
Underclearance	2	2	2
Bridge Posting	2	2	3
NSTM	Yes	No	No

Past Studies

The Historic Bridge Management Plan for the ICG Railroad Overpass by Mead & Hunt (June 2017) determined that the bridge's historical significance is as a grade crossing that was funded through the U.S. WPGC during the Depression. The Plan included rehabilitation recommendations that should be reviewed in 2027, which may be considered as routine maintenance since it does not address the load posting.

The US 71 Market St Feasibility Study by SDR Engineering Consultants recommended replacement of both structures based on age, displacement, and severe condition, and provided alternate layouts based on LG girders or steel beams.

Emergency Repairs

In April 2020, a train derailment impacted Bent 3 of the Spring St ICG Railroad Overpass and caused the emergency closure of the bridge. Gresham Smith, who are exclusive to the WSP team, designed the emergency repairs to replace Bent 3, utilizing standard rolled shapes and installed a concrete crash wall supported by helical piles.

PROJECT GOALS

1. Improve safety for vehicles, pedestrians, and railroad
2. Remove load posting
3. Maintain accessibility to downtown area from I-20
4. Minimize limits of approach roadway construction
5. Historical preservation of bridges and adjacent buildings

PROJECT INITIATION

After selection, Jonathon will begin to define the scope and critical path elements to expedite contract execution and reduce risks. He will organize a scoping meeting with the LADOTD PM and use the final scope and baseline schedule to develop the manhour estimate.

After contract execution, WSP will coordinate a kickoff meeting with the LADOTD PM, District Engineers, if desired, and Subconsultants to align expectations, clarify roles and milestones, define roadway/bridge design criteria, and establish a coordination meeting cadence.

DATA COLLECTION

We will coordinate with the LADOTD PM, District Engineer, and local jurisdiction officials to gather available data, including:

- District preferences
- As-builts
- Stage 0 (Feasibility)
- Traffic studies
- Previous boring logs
- Parish priorities and concerns
- Bridge inspection reports
- Stage 1 (Planning/Environmental)
- Atlas 14 rainfall data
- Subsurface Utility Engineering

After reviewing these documents, we will conduct a field visit to directly observe project constraints, including railroads, adjacent properties, intersections, driveways, the nearby I-20 interchange, and environmental concerns. Geotechnical information will be supplemented as needed, and borings will be located on each side of the railroad in accessible areas.

We will meet with the LADOTD PM to review the Market St. Feasibility Study and validate that it meets the project goals and design criteria. Project Manager Jonathon's experience designing and providing construction phase services for

18. APPROACH AND METHODOLOGY:

12 completed railroad overpasses will guide his efforts to keep the budget and schedule on target.

COORDINATION WITH KEY STAKEHOLDERS

Along with continual coordination with the LADOTD, we prioritize engagement with agencies and businesses to minimize operation disruptions. In addition to the following key stakeholders, we will work with the City of Shreveport for intersection signal timing.

Railroad

We have dedicated Darwin Desen to the role of railroad coordinator. The key to developing successful projects and agreements with the CPKC and UPRR in a timely manner is to understand, address, and respect their needs and goals as private property owners and operators. Actions and mitigations will be developed that jointly meet the goals of the LADOTD and the railroads to benefit the advancement and delivery of the project. Darwin brings a solid understanding of railroad priorities, policies, and practices that will help streamline this process.

Darwin will be supported by Gresham Smith, providing redundancy for railroad coordination as well as their direct knowledge of this site. During the emergency repair in 2020, Gresham Smith worked closely with the UPRR (track operator), CPKC RR (track owner), and the contractor to verify that the new foundations and crash wall provided the required clearance for track operations, including during construction. Together, we will work collaboratively with the LADOTD to evaluate and manage:

- Infrastructure modifications/improvements required to replace or rehabilitate the US 71 grade separations.
- Right-of-way limits and easement requirements
- Maintain and provide for anticipated future freight operations
- Constructability and construction access to railroad ROW



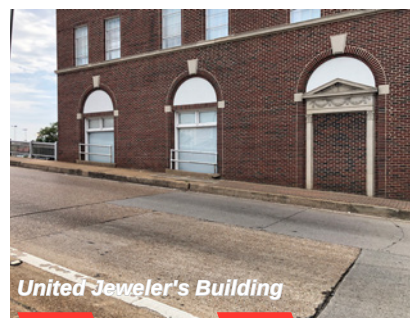
Shreveport Public Assembly and Recreation (SPAR)

SPAR operates Festival Plaza, which hosts numerous public events throughout the year, as well as the Farmer's Market from May through August. Festival Plaza is bisected by the ICG Railroad Overpass, bounded by the Market St Bridges over ICG RR, and uses these bridges for shelter, storage, and restroom facilities.



Adjacent Properties

Watermark Design Group, LLC (Watermark) will provide architectural services for both historic bridge preservation and decoupling the two connecting buildings with the Market St Overpasses. Their approach is to follow the Secretary of the Interior's Standards for the Treatment of Historic Properties, which has four distinct approaches: Preservation, Rehabilitation, Restoration, and Reconstruction. Updating historic structures requires striking a balance between retaining original features and accommodating new construction, technologies, and equipment. Additionally, Watermark will attend LADOTD's training class, "Maintenance and Rehabilitation of Historic Bridges" to conform with programmatic agreements. HRI Communities owns the United Jewelers building (301 Crockett St) that was constructed in 1926 and renovated into apartments in 2022. AMERCO, parent company for U-Haul, owns the former Shreveport Times building (222 Lake St) that was constructed in early 1961 and renovated in 2019.



United Jewelers Building



U-Haul (formerly Shreveport Times)

18. APPROACH AND METHODOLOGY:

PLANNING AND ROADWAY

Geometry

We will confirm lane and shoulder widths meet LADOTD Roadway Design Procedures and Details, check clear zones, and improve bridge railings and pedestrian accessibility. We will strive to maintain existing profiles while maximizing sight distance and design speed, but this is challenging due to the numerous constraints and less than 800' separation between Crockett and Lake Streets. We will design safe transitions between the I-20 EB & WB ramps, LA 1, and the downtown/riverfront area. Refinements will include reducing grades and impacts to retaining walls, brick pavers, and nearby driveways and intersections. If LADOTD Minimum Design Guidelines cannot be met due to geometry constraints, design exception(s) will be submitted to the LADOTD PM following the design exception flow chart.

Traffic

Spring and Market Streets will be closed for extended periods of time for bridge rehabilitation and replacement, and we will review the construction sequence and TCP with the LADOTD PM. We propose to only allow closure of one street at a time and will model potential detour routes to maximize safety and minimize traffic impacts in this heavily traveled corridor. One possibility would be to divert traffic to the Common St Overpass and close a ramp for I-20, which could reduce the risk of wrong-way drivers. We will use advanced modeling and visualization to communicate construction phasing with the LADOTD, stakeholders, and the public.

BRIDGE DESIGN AND REHABILITATION

WSP has assembled two independent teams, one team for the design of the replacement bridge that is led by WSP and TRC, and the second team to design the bridge rehabilitation and strengthening that is led by Gresham Smith. Each team is fully capable of performing both tasks and provides redundancy over the life of the project. Further, each team will perform an independent design review for the other team.

Bridge design will be in accordance with the LADOTD BDEM, AASHTO LRFD, and AREMA. A close, collaborative effort is needed between roadway and bridge design to increase structural capacity and improve railroad clearance. These goals typically require greater structure depth, but this highly sensitive site has a high risk of cascading secondary impacts, such as nearby brick paving and trees.

Market St Bridge Replacement

The feasibility report recommended replacing the two existing bridges with a single bridge, and the replacement bridge could be constructed in two stages

to improve MOT. The combined cross section maximizes the use of LADOTD ROW and has wider raised sidewalks on each side to improve accessibility, pedestrian safety, and allows for aesthetic bridge rails and fencing over the railroad. We typically recommend concrete superstructure, substructure, and foundations to deliver an economic structure with low long-term maintenance, and we will investigate accelerated construction techniques near the RR. We have used Grade 80 reinforcing on recent projects to minimize substructure size and congestion. We will include appropriate details, notes, and specifications required by the RR to protect their tracks and operations during bridge removal and new construction. We will comply with all environmental regulations through mitigation of any hazardous materials on the existing bridge. Driven piles will not be used to mitigate noise and vibration.

Spring St Historic Bridge Rehabilitation

We will begin with a thorough bridge inspection of the ICG Railroad Overpass to validate design plans and determine the extent of structural deterioration. Our rehabilitation plan will work within LADOTD budgetary constraints. Rehabilitation work may include:

- Clean and paint steel superstructure and substructure
- Repair deck concrete and joint seals or replace to make composite
- Repair/rebuild abutments and retaining walls
- Install deep foundations using helical piers or micropiles
- Construct crash walls at Bents 4 and 5
- Strengthen bents and replace nonredundant bent caps

DRAINAGE AND HYDRAULICS

We will capture the rainfall on the bridges in a closed drainage system so that water is not discharged into the RR ROW, and we will maintain existing overall drainage patterns.

QUALITY CONTROL/QUALITY ASSURANCE

As PM, Jonathon takes ownership for our team's quality of deliverables and understands it is WSP's responsibility, not the LADOTD, to perform quality reviews inclusive of our subconsultants' work prior to each submittal. The QA/QC Plan presented in Section 21, tailored to this project, is developed in accordance with Part I, Chapter 3 of the LADOTD BDEM, ISO-9001, and WSP Project QC Procedure. Jonathon will develop our Quality Management Plan (QMP) in accordance with Part I, Chapter 3 of the LADOTD BDEM and ISO-9001 compliant, tailored to the US 71 bridge replacement and rehabilitation projects. It comprises written procedures and redundant safeguards to identify problems early, and to prevent errors and future rework. It also includes guidelines for engaging reviewers, documenting all comments (internal & external), back-checking revisions, and final verification by Jonathon.

18. APPROACH AND METHODOLOGY:

PROJECT MANAGEMENT

We anticipate the design work to be completed in two phases, using time and materials contracts due to the many variables and unknown requirements by key stakeholders. Jonathon will develop and implement a Project Management Plan (PMP) covering scope management, communication, risk, document control, project closeout, and subcontract management. The PMP is a living document and will be updated for changing conditions and lessons learned. Jonathon will provide regular schedule and budget updates and get approval from the LADOTD PM for the LOE for any out-of-scope work.

Stage 0 (Feasibility)

While this bridge is considered historic under Criterion A, it is not eligible for the National Register of Historic Places. We will prepare a bridge life-cycle cost analysis to compare:

- Basic routine maintenance (NO BUILD)
- Rehabilitation and strengthening to extend service life
- Replacement with a new bridge structure

We will work with the LADOTD PM while developing the cost analysis, and recommendations will be provided for LADOTD review and approval. Preference will be given to rehabilitation as currently programmed, and we will work within budgetary constraints. However, replacement could be justified to balance safety, functionality, cost, and maintenance.

Stage 1 (Environmental)

We anticipate the Environmental Approval process will be initiated and performed by the LADOTD Environmental Section. The WSP team anticipates that the projects will qualify for a Categorical Exclusion and will provide any support needed by LADOTD. If the LADOTD decides to replace the historic Spring St Overpass, we will work with SPAR and local museums for documentation and opportunities to donate and repurpose structural members within Festival Plaza.

Stage 3 (Final Design)

Even though the replacement and rehabilitation projects each have a different starting point, we recommend letting these as a single project with an integrated traffic plan to avoid redundant mobilization and railroad coordination costs.

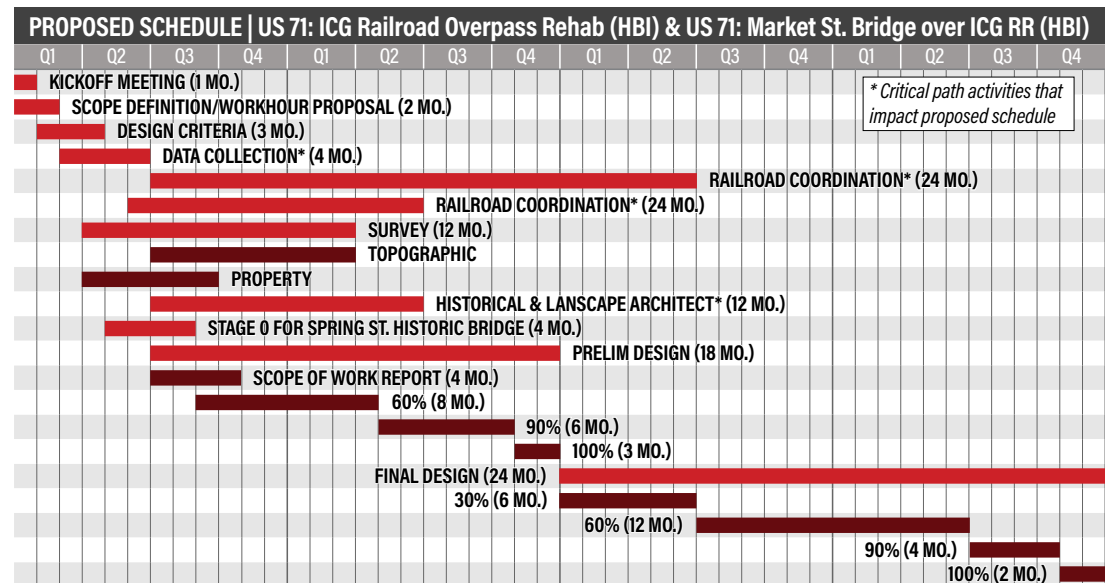
The team will closely follow LADOTD's Project Delivery Manual, as well as the requirements for QC/QA presented in the LADOTD Bridge Design and Evaluation Manual (BDEM). The anticipated submittals are as follows:

Preliminary Plans	Final Plans
30% Preliminary Plans	60% Final Plans
60% Preliminary Plans	90% Final Plans for technical review
90% Preliminary Plans	98% Final Plans for Chief approval
100% Preliminary Plans	100% Final Plans for letting

Preliminary Plans will include proposed alignments, profiles, and typical sections as well as any required design exceptions. The Market St Feasibility Study will be reviewed and validated. Viable structure types will be discussed with the LADOTD PM to select the most economical/constructable option.

Final Deliverables will have signed plans, including electronic formats, QA/QC documentation, traffic control management plan, third-party agreements, and final cost estimate.

PROJECT SCHEDULE



■ Major Task ■ Subtask

A photograph of a bridge over a railway track. A white SUV is driving across the bridge. The bridge has a metal railing and is supported by concrete pillars. The railway tracks are visible below the bridge, and there are trees and buildings in the background.

19-
23



WORKLOAD

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**
WSP USA Inc.	Bridge	44-17069; H.012003, H.011995, H. 010007, H. 012568, H.012000	Contract for Movable Bridge Contract 2	\$13,388
	Environmental	44-27470; H.003931	LWI Region 3 Design Storm Modeling and Consequence Assessment, Calcasieu River Bridge	\$1,190,813
	Bridge	46-097.2794; H.008069.5	Peters Road Bridge & Extension Toll Study - Phase 3	\$ 87,764
Gresham Smith	Bridge	44-21514; H.012003	Movable Bridge Contract 2	\$132,462
	CE&I/OV	44-21740; H.004100.6	I-10 LA 415 to Essen Lane	\$26,317
	CE&I/OV	44-25536; H.014088.6	US 61 Intersection Improvements @ LA 427 (MBI)	\$122,422
	CE&I/OV	44-25536; H.015944.6	LA 3125: Ia 70 - LA 323	\$6,112
	CE&I/OV	44-27349; H.003931.6	Calcasieu River Bridge (HBI)(CEI)	\$1,157,929
	CE&I/OV	44-31927; H.014737.6	Signal Upgrade: Sgt Alfred (CEI)	\$12,000
	Other (Program Mgt)	44-27186; H.015959.1	Discretionary Grant Administration	\$1,233,360
	Road	44-21326; H.014693.1	Stage 0 LA 67 (Plank Rd) at LA 3006	\$26,472
	Road	44-26911; H.015202.5	LRSP/STRPPP TO #10 Donaldsville	\$72,104
	Road	44-26911; H.015207.5	SRTPPP TO #11 (BRCC Design)	\$136,582
	Road	44-26911; H.016080.5	SRTPPP TO #12 (US 90 @ Sharp Design)	\$150,300
	Road	44-26912; H.013720.5	LRSP/STRPPP TO #5 Bonner Construction	\$1,423
	Road	44-26912; H.013720.5	LRSP/STRPPP TO #12 LA 31 Sidewalk	\$178,211
	Road	44-26912; H.015203.5	LRSP/STRPPP TO #2 Pinhook	\$1,282
	Road	44-26912; H.016205.5	LRSP/STRPPP TO #13 LA383 Sidewalks	\$157,043
	Road	44-27181; H.015861.5	LA 4 (Jonesboro)	\$146,501
	Road	44-27181; H.015918.5	Downtown Winnfield	\$160,660
	Road	44-27210; H.012859.5	Roundabout at Valhi Blvd	\$155,723
	Road	44-31004; H.015580.5	Natchitoches Safe Streets	\$683,476
	Traffic	44-25298; H.016007.5	I-10: Siegen Ln Interchg	\$194,749
	Traffic	44-25298; H.016039.5	LA 47: LA46 - Virtue St	\$117,310
	Traffic	44-25298; N/A	LA 24: Downtown Houma Study	\$66,337



WORKLOAD

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Gresham Smith (cont.)	Traffic	44-26911; H.013713.5	LRSP/STRPPP TO #4 LA 60 Bogalusa	\$26,478
	Traffic	44-26911; H.013718.5	LRSP/STRPPP TO #3 LA 23 Gretna	\$76,025
	Traffic	44-26911; H.015198.5	LRSP/STRPPP TO #5 S. Carrollton)	\$900
Stanley Consultants, Inc.	Road	44-27210; H.012859.5	Roundabout at Valhi Blvd	\$155,723
	Road	44-31004; H.015580.5	Natchitoches Safe Streets	\$683,476
	Traffic	44-25298; H.016007.5	I-10: Siegen Ln Interchg	\$194,749
	Traffic	44-25298; H.016039.5	LA 47: LA46 - Virtue St	\$117,310
	Traffic	44-25298; N/A	LA 24: Downtown Houma Study	\$66,337
	Traffic	44-26911; H.013713.5	LRSP/STRPPP TO #4 LA 60 Bogalusa	\$26,478
	Traffic	44-26911; H.013718.5	LRSP/STRPPP TO #3 LA 23 Gretna	\$76,025
	Road	44-28432; H.015569.5	LA 44: I-10 Roundabouts	\$392,021
	Road	44-23943; H.012633	LA 1088 Forest Brook Blvd Roundabout	\$312,411
	Road	44-27093; H.015849	US 190: R-Cut @ LA 741	\$23,277
	Road	44-27093; H.014824	US 90 @ Wax Lake	\$17,000
	Road	44-27093; H.015847	US 90: LA 668 to LA 318	\$232,208
	Road	44-27093; H.015949	LA 335: E JCT LA 694 – LA 14	\$115,530
	Road	44-30072; H.016294	LA 10: LA 467 – Lookout	\$5,173
	Road	44-30072; H.016295	LA 126: US 167- LA 34	\$6,310
	Road	44-27735; H.014056	I-69 Frontage Road Connector (Stonewall Frierson)	\$190,530
	Road	44-27735; H.005184	I-69 Frontage Rd (Stonewall to Ellerbe Rd)	\$485,000
	Road	44-27735; H.014054	I-69 Frontage Rd (Ellerbe Rd to LA 1)	\$510,372
	CE&I/OV	44-24641; H.005734.5	LA 447: I-12 to Buddy Ellis Road	\$485,377
	CE&I/OV	44-23943; H.011909.6	US 171 Roundabout at Boone St. Construction Support	\$64,788
	CE&I/OV	44-23943; H.011137 & H.013866	I-12 Construction Support Contract 2	\$36,677
	Other (Project Management)	44-23943; H.010960	LA 30 Construction Support 2	\$54,041
	Other (Project Management)	44-28432; H.015569.5	LA 44: I-10 Roundabouts	\$43,558



WORKLOAD

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Stanley Consultants, Inc. (cont.)	Other (Project Management)	44-27735; H.014056	I-69 Frontage Road Connector (Stonewall Frierson)	\$254,060
	Other (Project Management)	44-27735; H.005184	I-69 Frontage Rd (Stonewall to Ellerbe Rd)	\$286,030
	Other (Project Management)	44-27735; H.014054	I-69 Frontage Rd (Ellerbe Rd to LA 1)	\$278,662
	Other (Trial Services)	32184S-T001; H.011909	US 171 – Trial Services	\$3,315
	Other (Real Estate)	32184S-T002; H.011909	US 171 – Property Report	\$3,200
	Bridge	44-25029; H.015545	Stoney Point Burch over Drainage Bayou	\$9,307
	Bridge	44-25029; H.015550	Pride-Baywood Over Mill Creek	\$11,168
	Road	44-27735; H.005184	I-69 Frontage Rd (Stonewall to Ellerbe Rd)	\$123,138
	Bridge	44-27735; H.014054	I-69 Frontage Rd (Ellerbe Rd to LA 1)	\$89,458
	Traffic	44-27735; H.014056	I-69 Frontage Road Connector (Stonewall Frierson)	\$184,114
	Traffic	44-27735; H.005184	I-69 Frontage Rd (Stonewall to Ellerbe Rd)	\$147,000
	Traffic	44-27735; H.014054	I-69 Frontage Rd (Ellerbe Rd to LA 1)	\$191,270
Terracon Consultants, Inc.	Geotech	440005673 H.011235	I-49 at Verot School Road	\$8,110
	Geotech	4400025027 H.015442 – 015449	IIJA Off System Bridge Program	\$11,400
	Geotech	4400025026 H.015338	IIJA Off System Bridge Program	\$66,600
	Geotech	4400025024 H.015336,.015520,.015529	IIJA Off System Bridge Program	\$9,234
	Geotech	4400025023 H.015505-0.015517,.015335	IIJA Off System Bridge Program	\$39,000
	Geotech	4400006191 H.005967	Nelson Road Extension and Bridge	\$175,495
	Geotech	4400019014 H.012048.5	Caster Creek and Relief Bridges	\$28,158
	Geotech	4400019014 H.012537.5	LA 154, LA157 – Red Chute BYU & Flat RVR BRS	\$17,051
	Geotech	4400019014 H.014984	Libuse Cutoff Road over Flagon Bayou	\$19,878
	Geotech	4400024651 H.014988	Carey Road over Blackwater Bayou	\$49,946
	Geotech	4400024651 H.014990	S. Tiger Bend Road & E. Achord Road Bridge	\$20,034



WORKLOAD

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Lazenby & Associates, Inc.	Road	4400010428; H.004774.5 (L&A, Inc. 17E051.00)	Kansas-Garrett Connector & I-20 Improvements, Ouachita Parish (Road Design-Urban & Rural Design-Controlled Access) (98% Complete)	\$295,291
	Road	4400026026; (L&A, Inc. 23E055.00)	IDIQ Contract for Roadway Design Safety Statewide	N/A
		Task Order No. 1: S.P.N. H.009837.5; (L&A, Inc. 23E055.01)	LA 64: Roundabout @ LA 1019; Routes: LA 1019, LA 64	\$124,968
		Task Order No. 2: S.P.N. H.015231.5; (L&A, Inc. 23E055.02)	Livingston Parish (60% Complete); US 80 Roundabout @ US 80, LA 15 & LA 546; Routes: US 80, LA 15 & LA 546	\$255,720
		Task Order No. 3: S.P.N. H.016037.5; (L&A, Inc. 23E055.03)	Ouachita Parish (21.6% Complete); LA 1138-1 & LA 1138-2: Corridor Improvements; Calcasieu Parish	\$371,050
		Task Order No. 4: S.P.N. H.015615.5; (L&A, Inc. 23E055.04)	LA 14: Roundabout @ Corbina Road; Route: LA 14; Calcasieu Parish	\$349,861



WORKLOAD

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Lazenby & Associates, Inc. (cont.)	Road	4400026913; (L&A, Inc. 23E088.00)	IDIQ Contract for the Design of Safety Projects with Majority of Work in District 04, 05& 58, Statewide	N/A
		Task Order No. 1: S.P.N. H.015200.5; (L&A, Inc. 23E088.01)	East Street & Parkview Drive Sidewalk (Monroe); Ouachita Parish (20.89% Complete)	\$90,481
		Task Order No. 2: S.P.N. H.016208.5; (L&A, Inc. 23E088.02)	Shephard St. Sidewalks (Minden); Webster Parish	\$4,000
		Task Order No. 4: S.P.N. H.016190.5; (L&A, Inc. 23E088.04)	LA 4 & US 167: Sidewalks (Jonesboro); Jackson Parish	\$1,000
		Task Order No. 5: S.P.N. H.016192.5; (L&A, Inc. 23E088.05)	US 425 & Arkansas St. Sidewalks (Ferriday); Concordia Parish	\$2,025
		Task Order No. 6: S.P.N. H.016258.5; (L&A, Inc. 23E088.06)	Local Road Striping & Signing (Monroe); Ouachita Parish	\$640
		Task Order No. 7: S.P.N. H.016259.5; (L&A, Inc. 23E088.07)	Local Road Signal Improvements (Monroe); Ouachita Parish	\$150
	Road	4400031585; (L&A, Inc. 25E051.00)	IDIQ Contract for Pavement Preservation Design Service – Statewide with Majority of Work in District 05	N/A
		Task Order No. 1: S.P.N. H.015868.5; (L&A, Inc. 25E051.01)	LA 507: Bienville P/L to LA 815; Lincoln Parish (47% Complete)	\$95,034
	Bridge	4400025025; (L&A, Inc. 22E048.00)	Infrastructure Investing & Jobs Act (IIJA) Off-System Bridge Program – District 05; (13 Off-System Bridge Structures) (85% Complete)	N/A



WORKLOAD

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Lazenby & Associates, Inc. (cont.)	Bridge	1. H.015463.5; (L&A, Inc. 22E048.13)	White Oak Landing Over Edmonds Creek; Union Parish Off-System Bridge (99.09% Complete)	\$1,750
		2. H.015462.5; (L&A, Inc. 22E048.12)	Pilgrim Rest Church Road Over Steep Bank Creek; Union Parish Off-System Bridge (90.37% Complete)	\$18,312
		3. H.015461.5; (L&A, Inc. 22E048.11)	Firetower Road Over Rock Creek; Union Parish Off-System Bridge (88.02% Complete)	\$18,312
		4. H.015454.5; (L&A, Inc. 22E048.04)	Keppler Creek Road Over Sugar Creek; Jackson Parish Off-System Bridge (89.16% Complete)	\$16,500
		5. H.015455.5; (L&A, Inc. 22E048.05)	Spring Creek Road Over Wafer Creek; Lincoln Parish Off-System Bridge (76.01% Complete)	\$30,262
		6. H.015457.5; (L&A, Inc. 22E048.07)	Olen Hughes Road Over Bayou Bonne Idee; Morehouse Parish Off-System Bridge (67.55% Complete)	\$16,281
		7. H.015458.5; (L&A, Inc. 22E048.08)	Oscar Lum Road Over Williamson Creek; Morehouse Parish Off-System Bridge (73.49% Complete)	\$13,163
		8. H.015337.5; (L&A, Inc. 22E048.01)	Mineral Springs Road Over Clark Creek; Ouachita Parish Off-System Bridge (84.44% Complete)	\$19,012
		9. H.015459.5; (L&A, Inc. 22E048.09)	Lapine Road Over Rogers Creek; Ouachita Parish Off-System Bridge (88.20% Complete)	\$5,750
		10. H.015460.5; (L&A, Inc. 22E048.10)	Little Road Over Creek; Richland Parish Off-System Bridge (82.00% Complete)	\$9,500
		11. H.015453.5; (L&A, Inc. 22E048.03)	Hale Road Over Alligator Bayou; West Carroll Parish Off-System Bridge (71.97% Complete)	\$24,446
		12. H.015456.5; (L&A, Inc. 22E048.06)	Hodge Road Over Cypress Bayou; Madison Parish Off-System Bridge (66.61% Complete)	\$55,898
		13. H.015452; (L&A, Inc. 22E048.02)	Henderson Loop Road Over Wildcat Bayou; East Carroll Parish (Authorized) (0% Complete)	\$131,115



WORKLOAD

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Lazenby & Associates, Inc. (cont.)	Bridge	4400021887; (L&A, Inc. 21E071.00)	Contract for Replacement of Fifteen (15) Bridges, Multiple State Project Number, District 08 (21% Complete)	N/A
		H.012047; (L&A, Inc. 21E71.01)	US 167 Bridge & US 167 Bridge Relief Over Big Creek; Winn Parish	\$361,435
		H.012542; (L&A, Inc. 21E071.02)	LA 114 Bridge Over Belle Deau Bayou; LA 107 Bridge Over Bayou Jack Relief; Avoyelles Parish	\$183,440
		H.012543; (L&A, Inc. 21E071.03)	LA 8 Bridge Over Big Creek; Grant Parish	\$101,080
		H.012544; (L&A, Inc. 21E071.04)	LA 120 Bridge Over Creek; LA 120 Bridge Over Bayou Scie Relief No. 1; LA 120 Bridge Over Bayou Scie Relief No. 2; LA 120 Bridge Over Bayou Scie; LA 120 Bridge Over Bayou Scie Relief No. 3; LA 474 Bridge Over Midkiff Creek; Sabine Parish	\$408,940
	Survey	4400019714; (L&A, Inc. 20S038.00)	IDIQ Contract for Hydrographic Surveying Services – Statewide with Majority of Work in Districts 04, 05, 08 & 58; (50.31% Complete) No Active Task Orders At This Time; (T.O. #10 – 100% Complete) (Contract Expires in Nov, 2025)	N/A
	Survey	4400021972; (L&A, Inc. 21S063.00)	IDIQ Contract for Topographic Surveys; (None – NHS Surveys); (51% Complete)	N/A
	Survey	4400027916; (L&A, Inc. 24S014.00)	IDIQ Contract for Professional Boundary Surveying Services – Statewide with Majority of Work in Districts 04 & 05 (0.05% Complete)	N/A
		Task Order No. 2: S.P.N. H.009837.5; (L&A, Inc. 24S014.02)	LA 64: Roundabout @ LA 1019; Livingston Parish (30% Complete)	\$40,384
	Survey	4400027917; (L&A, Inc. 24S015.00)	IDIQ Contract for Professional Boundary Surveying Services – Statewide with Majority of Work in District 08 & 58 (30.49% Complete)	N/A
		Task Order No. 1: S.P.N. H.004825.5; (L&A, Inc. 24S015.01)	LA 28: Widening: LA 3128 to LA 116; Rapides Parish (48% Complete) (On Hold)	\$150,908

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Lazenby & Associates, Inc. (cont.)	Survey	4400027735; (L&A, Inc. 23E099.00)	I-69 Frontage Road Connector; Caddo Parish	N/A
		S.P.N. H.005184; (L&A, Inc. 23E099.01)	Stonewall Fryerson to Ellerbe Road; Caddo Parish (10.07% Complete)	\$853,543
	Survey	4400027687; (L&A, Inc. 24E052.00)	IDIQ Contract for Hydrographic Surveying Services; Statewide (North Region)	N/A
		Task Order No. 1: S.P.N. H.008768.5; (L&A, Inc. 24E052.01)	Hydrographic Surveying Monitoring (North Region) (45% Complete)	\$38,752
	Survey	4400022582; (L&A, Inc. 21S075.00)	Contract to replace 8 Bridges in District 04 and 05, Sub- Consultant to Stantec, Inc.	N/A
		S.P.N. H.012011.5; (L&A, Inc. 21S075.01)	Topographic Survey: LA 525 Bridge Over Boggy Bayou (Recall No. 014970 & LA 173 Bridge Over Creek (Recall No. 014730); Caddo Parish	\$118,364
		S.P.N. H.012029.5; (L&A, Inc. 21S075.02)	Topographic Survey: US 80 Bridge Over Crows Creek (Recall No. 010370), Bienville Parish; US 80 Bridge Over Cooley Branch (Recall No. 018930), Webster Parish; US 80 Bridge Over Creek (Recall No. 018940), Webster Parish	\$41,046
	Survey	4400022901; (L&A, Inc. 22S015.00)	Contract to replace 2 Bridges in Caddo Parish; Sub- Consultant to Stantec, Inc.	N/A
		S.P.N. H.012005.5; (L&A, Inc. 22S015.02)	Topographic Survey: US 80 Bridge Over KCS Railroad, Caddo Parish	\$226,182
T2 UES, Inc. d/b/a T2 Utility Engineers	Other (Subsurface Utility Engineering)	4400024651 H.000284	US 90 Pearl River Bridges	\$971,478
	Other (Utility Coordination)	4400024651 H.012059	LA19- Bridges near Zachary	\$303,640



WORKLOAD

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
TRC Engineers, Inc.	Bridge	44-24185 / H.016046.5	US 190: Atchafalaya River @ K'Springs Repairs	\$104,832
	Bridge	44-21128 / H.014258.6	LA 1 Construction Services	\$405,228
	Bridge	44-17033 / H.005121	LA 1 / LA 415 Connector	\$4,356,070
	Road	44-17033 / H.005121	LA 1 / LA 415 Connector	\$261,346
	Other (Project Management)	44-17033 / H.005121	LA 1 / LA 415 Connector	\$487,826
	Bridge	44-27652 / H.009859.5	Bridge load rating services	\$1,740,240
	Bridge	44-21515 / H.010004.5	Contract 3 for Movable Bridges – Olivier	\$161,459
	Bridge	44-21515 / H.011974.5	Contract 3 for Movable Bridges – Dulac	\$56,049
	Bridge	44-21515 / H.011991.5	Contract 3 for Movable Bridges – Daspit	\$151,633
	Bridge	44-21515 / H.012738.5	Contract 3 for Movable Bridges – Morbihan	\$205,903
	Bridge	44-21515 / H.014191.5	Contract 3 for Movable Bridges – Nelson	\$178,561
Watermark Design Group, LLC	Bridge	44-0021517 / H.010007	DOTD Contract 5 - Movable Bridges (HDR)	\$173,232
	Bridge	4400021514/ H.012003, H.011995, H.010007, H.012568, H.012000	DOTD Contract 2 for Movable Bridges (5) Vermillion, St. Martin, Assumption, and Cameron Parishes (WSP)	\$125,971

20. CERTIFICATIONS/LICENSES:

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



Louisiana
**SECRETARY
OF STATE**
NANCY LANDRY


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Name	Type	City	Status
WSP USA INC.	Business Corporation (Non-Louisiana)	NEW YORK	Active

Previous Names

PARSONS BRINCKERHOFF, INC. (Changed: 5/2/2017)

PB AMERICAS, INC. (Changed: 11/3/2011)

PARSONS, BRINCKERHOFF, QUADE & DOUGLAS, INC. (Changed: 12/14/2006)

Business: WSP USA INC.

Charter Number: 29600510F

Registration Date: 10/1/1971

Domicile Address

ONE PENN PLAZA 4TH FLOOR
NEW YORK, NY 10119

Mailing Address

4139 OREGON PIKE
EPHRATA, PA 17522

Principal Business Office

ONE PENN PLAZA 4TH FLOOR
NEW YORK, NY 10119

Registered Office in Louisiana

3867 PLAZA TOWER DR.
BATON ROUGE, LA 70816

Principal Business Establishment in Louisiana

3867 PLAZA TOWER DR.
BATON ROUGE, LA 70816

Status

Status: Active

Annual Report Status: In Good Standing

Qualified: 10/1/1971

Last Report Filed: 9/2/2025

Type: Business Corporation (Non-Louisiana)

20. CERTIFICATIONS/LICENSES:

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

Transportation Professional Certification Board, Inc.

certifies that

Ossama E.M. Ramadan

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

Professional Traffic Operations Engineer

*unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 4774 issued in Washington, DC, USA
12/09/2019*

Diana W. Mowbray
Chair



Jeffrey F. Ravanti
Executive Director

Certificate of Completion

presented to

Ossama E. Ramadan

for completing the

**Traffic Engineering Analysis Process & Report
Module 1**

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 2.5

Poly A. Colina
Authorized Instructor

Jim Holt
Authorized Instructor

P. J. Broussard
Authorized instructor



Certificate of Completion

presented to

Ossama E. Ramadan

for completing the

**Traffic Engineering Analysis Process & Report
Module 2**

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3.5

Poly A. Colina
Authorized Instructor

Jim Holt
Authorized Instructor

P. J. Broussard
Authorized instructor



Certificate of Completion

presented to

Ossama E. Ramadan

for completing the

**Traffic Engineering Analysis Process & Report
Module 3**

Date: January 30, 2020
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3.5

Poly A. Colina
Authorized Instructor

Jim Holt
Authorized Instructor

P. J. Broussard
Authorized instructor



20. CERTIFICATIONS/LICENSES:

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

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

Date: February 25, 2019
Location: Bridge City, Louisiana

Professional Development
Hours (PDHs) Awarded: 2

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

Certificate of Completion
presented to
Alben Cooper
for completing the
**Traffic Engineering Analysis Process & Report
Module 3**

Date: February 26, 2019
Location: Bridge City, Louisiana

Professional Development
Hours (PDHs) Awarded: 3

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

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

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

Professional Development
Hours (PDHs) Awarded: 4

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

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

Date: February 25, 2019
Location: Bridge City, Louisiana

Professional Development
Hours (PDHs) Awarded: 3

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

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

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

Professional Development
Hours (PDHs) Awarded: 4

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

Certificate of Completion
presented to
Bert Moore
for completing the
**Traffic Engineering Analysis Process & Report
Module 3**

Date: October 18, 2018
Location: Baton Rouge, Louisiana

Professional Development
Hours (PDHs) Awarded: 3

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

[Signature]
Authorized instructor

DOTD
LOUISIANA DEPARTMENT OF
TRANSPORTATION & DEVELOPMENT

PTOE #3206

About Communication Opt Out

Personal Information ✓

Mr. Alben P. Cooper, III, P.E., PTOE
Transportation Engineer
Urban Systems, Inc.

RenewButton
There are no records.

TPCB Certification Details

Certification Type	TPCB Status	Application Date	Audit	Certification Date	Expiration Date	Reasonable Testing Accommodated	PE License State
Professional Traffic Operations Engineer	Active		No	5/2/2012	5/2/2024		

20. CERTIFICATIONS/LICENSES:

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



April 6, 2016

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

Subject: Trafficware Certification

Mr. Bert Moore,

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

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

Sincerely,

Kris D. McCoy
Account Manager



Transportation Professional Certification Board Inc.

certifies that

Herbert Eugene Moore II

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

PROFESSIONAL TRAFFIC OPERATIONS ENGINEER

unless withdrawn by the Certification Board and subject to the provisions for renewal.

Certificate number 2728 issued in Washington, D.C. U.S.A.

September 9, 2009

Steven A. Peltzer
Chair



James W. White
Executive Director



Dear Certified Flagger:

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

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

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

Sincerely,

Donna M. Clark
VP of Education and Technical Services

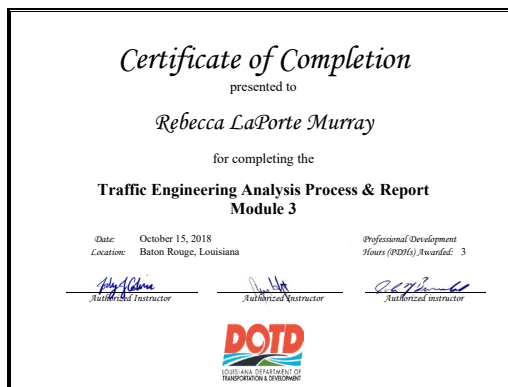
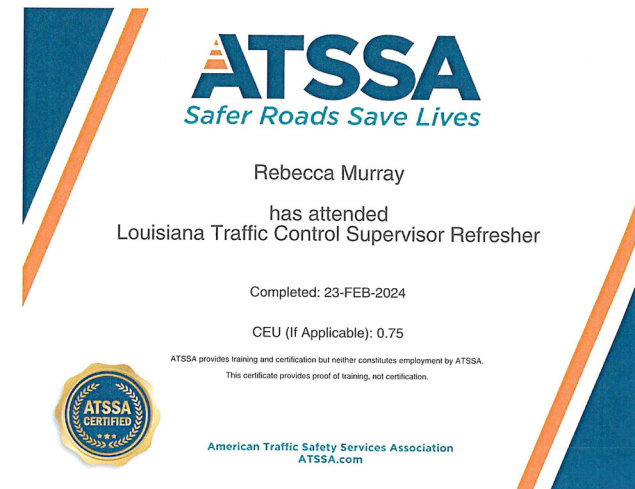
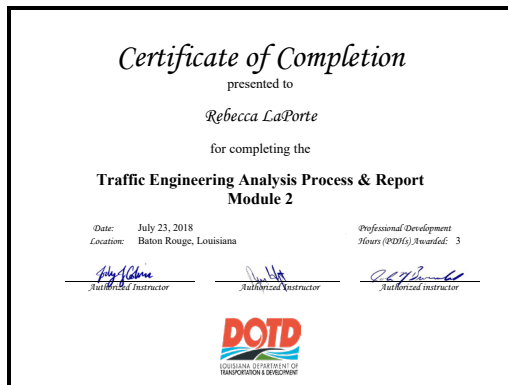
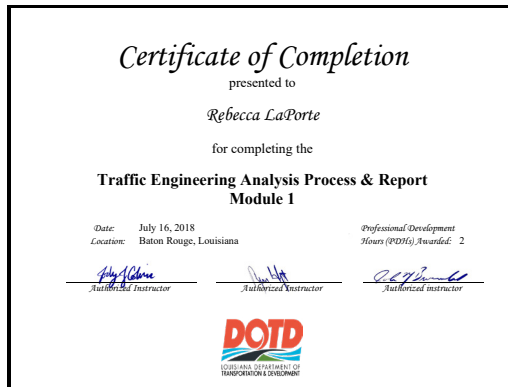
Laminating the front of your card with Dual Laminator:



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

20. CERTIFICATIONS/LICENSES:

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



20. CERTIFICATIONS/LICENSES:

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

PACKINGSLIP

Ship To:
Gresham Smith
Johnetta Scales
222 Second Avenue South
Suite 1400 (HR/Safety)
Nashville, TN 37201
Sold To:
Gresham Smith
Johnetta Scales
222 Second Avenue South
Suite 1400 (HR/Safety)
Nashville, TN 37201
ORDER NO. 542192
SHIPMENT ID: 542195
SHIP VIA:ups
SHIP DATE:04/12/24



Mead & Hunt

Please select the date you attended the course:
☐ Tuesday, May 1, 2016
☒ Wednesday, May 2, 2018

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

Certificate of attendance and participation for:
Courtney Rame

Training Course:
Maintenance and Rehabilitation of Historic Bridges

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

You have earned 6 PDH units that can be applied to applicable continuing education requirements for professional engineering license.

David Squire
Mead & Hunt Instructor
Amy Squire

John A. Ruthe, PE, SE
Mead & Hunt Instructor
John A. Ruthe, PE, SE



National Highway Institute Certificate of Training



Amy Robards

has successfully completed

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Office of State Aid Road Construction

Date: August 30-September 01, 2022 Hours of Instruction: 18
Location: Ridgeland, MS

William A. Wright
Instructor

Marie W. Allred
Local Coordinator
Thomas Harman
Thomas Harman, Director
National Highway Institute

LOUISIANA ASSOCIATED GENERAL CONTRACTORS, INC.
609 North Street - Baton Rouge, LA 70802
Phone: 225/344-5432 * Fax: 225/344-0458
www.lagc.org

May 25, 2021

To Whom It May Concern,

This is to verify that the below listed employee of Hardesty & Hanover has successfully completed LADOTD required ATSSA Traffic Control Training.

ATSSA Traffic Control Supervisor Refresher Training - May 12, 2021 - Amy Robards

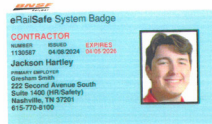
This letter will serve as temporary proof of training until above listed employees receive their official certificates from American Traffic Safety Services Association (ATSSA).

If there are any questions regarding this issue, please contact Mr. Brett Morgan of LADOTD at Headquarters in Baton Rouge, LA (225-379-1554) or Michael Demouy at the above captioned address.

Best Regards,
Michael Demouy
Michael Demouy - DGC Manager

PACKINGSLIP

Ship To:
Gresham Smith
Johnetta Scales
222 Second Avenue South
Suite 1400 (HR/Safety)
Nashville, TN 37201
Sold To:
Gresham Smith
Johnetta Scales
222 Second Avenue South
Suite 1400 (HR/Safety)
Nashville, TN 37201
ORDER NO. 541706
SHIPMENT ID: 541709
SHIP VIA:ups
SHIP DATE:04/10/24



National Highway Institute Certificate of Training Amy Robards



has participated in
FHWA-NHI-130055
Safety Inspection of In Service Bridges
hosted by
Nebraska LTAP

Date: April 16-27 2018
Location: Lincoln, Nebraska

Hours of Instruction: 67

William A. Wright
Instructor
David R. Burch
Instructor

Charles Schwab
Local Coordinator
Valerie Briggs
Valerie Briggs, Director
National Highway Institute

National Highway Institute

U.S. Department of Transportation
Federal Highway Administration

Certificate of Training

AMY ROBARDS

has participated in
FHWA-NHI-130078 Fracture Critical Inspection Techniques for Steel Bridges
hosted by
LA DOTD/LTRC

Date: April 5-8, 2022 Hours of Instruction: 25
Location: Baton Rouge, LA

William A. Wright
Instructor
Ben O. Dethlefs
Instructor

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

20. CERTIFICATIONS/LICENSES:

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



Research, Technology Transfer, Education & Training



MEMORANDUM

To: District 02 - Bridge City
Dlane Rome - District Training Coordinator

From: John Dean
Construction and Materials - Training Program Manager

Date: December 19, 2018

Re: CERTIFICATION CARDS and CERTIFICATES

Enclosed are the cards and certificates for,

1. *Amy Robards ----- Structural Concrete

Please confirm and complete the following:

- 1) Verify the Specialty Area # for this learner (e.g. X030, X050, etc.)
- 2) Book in to DOTD STZ CERT "W" COMPLETED
- 3) Follow-up DOTD STZ CERT "W" COMPLETED

If Specialty Area "LIST" credit is not shown:

- 1) Book into DOTD STZ LIST "W" Specialty Area
- 2) Follow-up DOTD STZ LIST "W" Specialty Area

wm/JGD
Enclosures
*CARD AND PAPERWORK

4101 Goumier Avenue • Baton Rouge, Louisiana 70808 • (225) 767-9433 Phone • (225) 767-9400 Fax
Sponsored jointly by the Louisiana Department of Transportation and Development and Louisiana State University



Certificate of Completion Form

American Wick Drain Corporation
1209 Airport Road
Monroe, NC 28110
PH: 800.242.9425
FX: 704.296.0690

The individual named below attended the continuing education program as described.

Name:	John Weres	Registration #:	36429	State:	LA
Organization:	Gresham Smith + Partners				
Address:	1000 Perkins Rowe Suite 280				
City / ST / Zip:	Baton Rouge, LA 70810				
Course Date:	5/15/2018				
Title Of Registered Course	Contact Hours	Provider Name	Format	Content Development Resources	
Geocomposite Drains in Civil Design	1 hour	American Wick Drain Corporation	Lecture		
Covers Health, Safety and Welfare	Professional Development	Course Number	Grade Received (if exam used)	Material Resources	
Yes	1 hour	AWD-007		PowerPoint Presentation	

Learning Objectives:
The attendee will learn the differences between conventional drainage design with pipe and how its performance compares to designing with geocomposites. The course will cover the history of geocomposites for drainage, the basic principles of drainage design, the installation methods and various drainage applications. Topics discussed will include soil permeability, soil weight and lateral earth pressure and the overall effect drainage has on the design approach. Applications discussed will include landscape area, planting beds, retaining walls, green roofs and sports fields. The appropriate product for each application will be presented for commonly encountered soil types in most geographical areas. Attendees should expect to understand basic drainage principles, and be able to choose and specify a geocomposite drainage design for most common civil design applications.

Provider Authorization:

Name: Eddie Sobodash Title: Regional Sales Manager
Phone: 704.441.2678 Fax: 704.296.0690 Email: eddie@americanwick.com
Instructor Name: Eddie Sobodash Date: 5/15/2018

National Highway Institute
Certificate of Training

John Weres

has participated in

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

hosted by
Kansas Department of Transportation

Date: February 2-13, 2015 Hours of Instruction: 67
Location: Topeka, Kansas

Buy R Long PE
Instructor

William R. Harrison PE
Instructor

Beky Welsh
Local Coordinator

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

National Highway Institute
Certificate of Training
JOHN WERES

has participated in

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

hosted by
LA DOTD/LTRC

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

Buy R Long PE
Instructor

William R. Harrison PE
Instructor

Beky Welsh
Local Coordinator

Michael Davis
Michael Davis, Director
National Highway Institute

National Highway Institute
Certificate of Training

John Weres

has participated in

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

hosted by
Kansas Department of Transportation

Date: February 2-13, 2015 Hours of Instruction: 67
Location: Topeka, Kansas

Buy R Long PE
Instructor

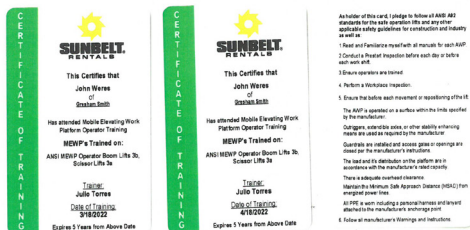
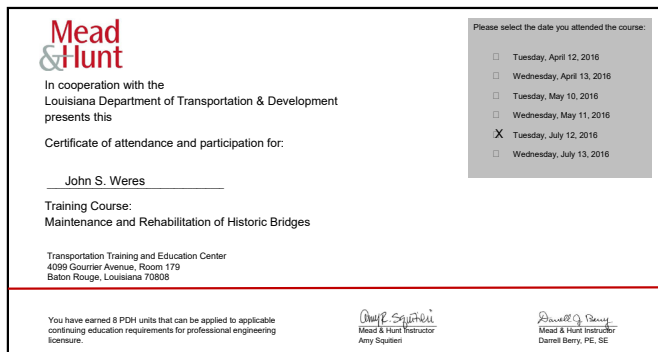
William R. Harrison PE
Instructor

Beky Welsh
Local Coordinator

Valerie Briggs
Valerie Briggs, Director
National Highway Institute

20. CERTIFICATIONS/LICENSES:

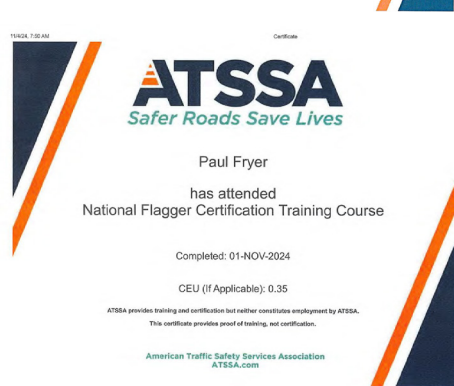
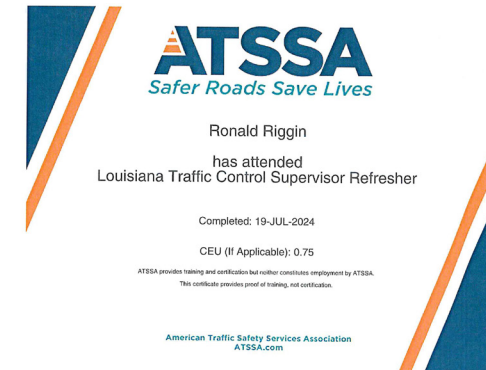
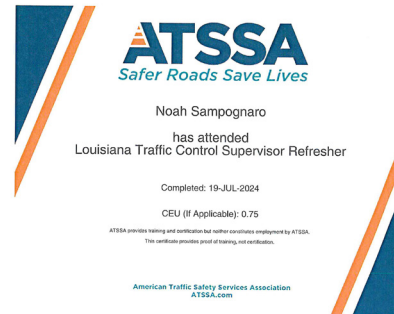
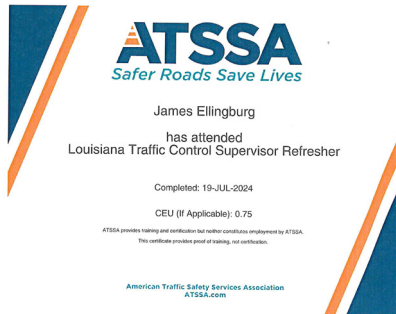
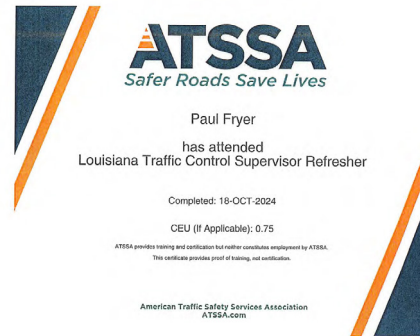
If the advertisement requires submission of licenses and/or certificates, include them here. Otherwise, leave this section blank.



20. CERTIFICATIONS/LICENSES:

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

Certificate [https://training.atssa.com/content/prod/encryption/Ca/4e6b8d4d187283AAQ/1721160781/...](https://training.atssa.com/content/prod/encryption/Ca/4e6b8d4d187283AAQ/1721160781/)





CERTIFICATIONS/LICENSES

20. CERTIFICATIONS/LICENSES:

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

7:18:04, 9:40 PM

Certificate



ATSSA

Safer Roads Save Lives

Randy Hammons

has attended

National Flagger Certification Training Course

Completed: 16-JUL-2024

CEU (If Applicable): 0

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

This certificate provides proof of training, not certification.

American Traffic Safety Services Association

ATSSA.com



ATSSA

Safer Roads Save Lives

Randy Hammons

has attended

Louisiana Traffic Control Supervisor Refresher

Completed: 19-JUL-2024

CEU (If Applicable): 0.75

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

This certificate provides proof of training, not certification.

American Traffic Safety Services Association

ATSSA.com



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.

in Baton Rouge, Louisiana, USA

Quality Management System

Standard:	Accredited Since:
R18 Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	01/10/2011
C1077 (Aggregate) Laboratories Testing Concrete and Concrete Aggregates	02/26/2021
D1077 (Concrete) Laboratories Testing Concrete and Concrete Aggregates	04/03/2013
D1740 (Soil) Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	01/10/2011
E329 (Aggregate) Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	02/26/2021
E329 (Concrete) Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	11/08/2013
E329 (Soil) Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	04/03/2013
E329 (Sprayed Fire-Resistive Material) Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	07/23/2019



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.

in Baton Rouge, Louisiana, USA

Soil

Standard:	Accredited Since:
T189 The Moisture-Density Relations of Soils Using a 5.5 lb (2.5 kg) Rammer and a 12 in. (305 mm) Drop	02/26/2010
T180 Moisture-Density Relations of Soils Using a 10 lb (4.54 kg) Rammer and an 18 in. (457 mm) Drop	02/26/2010
D421 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	02/26/2010
D422 Particle Size Analysis of Soils by Hydrometer	02/26/2010
D698 The Moisture-Density Relations of Soils Using a 5.5 lb (2.5 kg) Rammer and a 12 in. (305 mm) Drop	02/26/2010
D854 Specific Gravity of Soils	02/26/2010
D1140 Amount of Material in Soils Finer than the No. 200 (75µm) Sieve	02/26/2010
D1557 Moisture-Density Relations of Soils Using a 10 lb (4.54 kg) Rammer and an 18 in. (457 mm) Drop	02/26/2010
D1863 The California Bearing Ratio	04/13/2016
D2165 Unconfined Compressive Strength of Cohesive Soil	02/26/2010
D2216 Laboratory Determination of Moisture Content of Soils	02/26/2010
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	02/26/2010
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	02/26/2010
D2493 Description and Identification of Soils (Visual-Manual Procedure)	02/26/2010
D2850 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	02/26/2010
D2974 Determination of Organic Content in Soils by Loss on Ignition	02/26/2010
D4253 Maximum Index Density and Unit Weight of Soils Using a Vibratory Table	09/18/2024
D4254 Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density	04/13/2016
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	02/26/2010
D4318 Plastic Limit of Soils (Atterberg Limits)	02/26/2010
D4546 One-Dimensional Swell or Settlement Potential of Cohesive Soils	01/13/2012
D4718 Oversize Particle Count	12/26/2013
D4943 Shrinkage Factors of Soil by Wax Method	09/18/2024

Page 2 of 6

This certificate was generated on 12/12/2025 at 11:36 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashoresource.org/aap/accreditation-directory



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.

in Baton Rouge, Louisiana, USA

Soil (Continued)

Standard:	Accredited Since:
D4872 pH Testing of Soils	01/12/2012
D5084 Hydraulic Conductivity of Saturated Porous Materials Using a Flexible Wall Permeameter	01/12/2012
D6908 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	02/26/2010



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.

in Baton Rouge, Louisiana, USA

Aggregate

Standard:	Accredited Since:
C29 Bulk Density ("Unit Weight") and Voids in Aggregate	02/26/2010
C40 Organic Impurities in Fine Aggregates for Concrete	02/26/2010
C117 Mineral Finer Than 75µm (No. 200) Sieve in Mineral Aggregates by Washing	02/26/2010
C127 Specific Gravity and Absorption of Coarse Aggregate	02/26/2010
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	02/26/2010
C136 Sieve Analysis of Fine and Coarse Aggregates	02/26/2021
C568 Total Moisture Content of Aggregates by Drying	02/26/2010
C702 Reducing Samples of Aggregate to Testing Size	02/26/2010
D75 Sampling Aggregate	12/26/2013

Page 4 of 6

This certificate was generated on 12/12/2025 at 11:36 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashoresource.org/aap/accreditation-directory



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.

in Baton Rouge, Louisiana, USA

Sprayed Fire-Resistive Material

Standard:	Accredited Since:
E605 Thickness and Density of Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members	12/26/2013
E736 Cohesion/Adhesion of Sprayed Fire-Resistive Material Applied to Structural Members	12/26/2013



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.

in Baton Rouge, Louisiana, USA

Concrete

Standard:	Accredited Since:
C31 (Beams) Making and Curing Concrete Test Specimens in the Field	11/08/2013
C31 (Cylinders) Making and Curing Concrete Test Specimens in the Field	11/08/2013
C39 Compressive Strength of Cylindrical Concrete Specimens	07/27/2010
C78 Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	11/08/2013
C138 Density (Unit Weight), Yield, and Air Content of Concrete	07/27/2010
C143 Slump of Hydraulic Cement Concrete	07/27/2010
C172 Sampling Freshly Mixed Concrete	07/27/2010
C175 Air Content of Freshly Mixed Concrete by the Volumetric Method	07/27/2010
C291 Air Content of Freshly Mixed Concrete by the Pressure Method	07/27/2010
C511 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes	11/08/2013
C617 (7600 psi and below) Capping Cylindrical Concrete Specimens	07/06/2023
C1064 Temperature of Freshly Mixed Portland Cement Concrete	07/27/2010
C1281 (7000 psi and below) Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	11/08/2013

Page 6 of 6

This certificate was generated on 12/12/2025 at 11:36 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashoresource.org/aap/accreditation-directory



CERTIFICATIONS/LICENSES

20. CERTIFICATIONS/LICENSES:

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



JEFF LANDRY
GOVERNOR

COURTNEY J. BURDETTE
SECRETARY

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF ENVIRONMENTAL SERVICES

AI No. 30697
Activity No. ACC20230001
LELAP Lab ID No. 04009
Renewal Due June 30, 2026

Ms. Lynne E. Roussel PE
Terracon Consultants Inc
2822 O'Neal Ln Bldg B
Baton Rouge, LA 70816

Re: Annual Environmental Laboratory Accreditation

Dear Ms. Roussel PE:

The Louisiana Department of Environmental Quality's laboratory accreditation program, in accordance with Louisiana Administrative Code Title 33, Part I, Subpart 3, Laboratory Accreditation, accredits this laboratory from July 1, 2025 to June 30, 2026. This accreditation does not constitute an endorsement of the suitability of the listed methods for any specific purpose. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by the Louisiana Environmental Laboratory Accreditation Program (LELAP).

LELAP grants accreditation for those methods/analytes as indicated by the accreditation type on the attached scope of accreditation.¹ Accreditation is dependent on the laboratory's successful ongoing compliance with regulations as outlined in the Louisiana Administrative Code, Title 33, Part I, Subpart 3, Laboratory Accreditation and with the policy, rules, or standard of any other accreditation body (AB) listed on the scope of accreditation, as applicable.

LAC 33:I.5313.A requires that the laboratory report include all relevant information. Therefore, the certificate number shall be placed in the upper right corner of all laboratory reports. If the test report includes results of any test for which the laboratory is not accredited, the unaccredited results must be clearly identified as such.

¹If the methods were partially identified on the LELAP application for secondary accreditation, the laboratory is accredited for the versions listed on the current application or referenced in the laboratory standard operating procedure.

Form 7565_r03
2-14-25
Post Office Box 4313 • Baton Rouge, Louisiana 70821-4313 • Phone 225-219-3181 • Fax 225-219-3309
www.deq.louisiana.gov

Ms. Lynne E. Roussel PE
Terracon Consultants Inc
Page 2 of 2

The accreditation certificate is the property of the State of Louisiana. Should your accreditation be suspended or revoked, your laboratory must return the certificate of accreditation to LELAP and delete any electronic copies until your accreditation status is restored.

We request that you examine the attached certificate and scope of accreditation for accuracy and completeness. If you note any errors, please notify us immediately.

If you have any questions, please contact your assigned assessor Alexandra Alvarado at (225) 219-7585 or Alexandra.Alvarado@LA.GOV.

Sincerely,

Tonya Landry
Administrator
Public Participation and Permit Support Division

6/25/2025
Date

TL:TR:aa
Attachments



CERTIFICATE OF ACCREDITATION

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION ENGINEERS
AASHTO

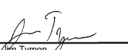
Terracon Consultants, Inc.

in

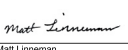
Baton Rouge, Louisiana, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories (aashoresource.org).



Jeff Tymon,
AASHTO Executive Director



Matt Linneman,
AASHTO CMP Chair

This certificate was generated on 12/12/2025 at 11:36 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashoresource.org/asp/accreditation-directory



STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
Is hereby granting a Louisiana Environmental Laboratory Accreditation to



Terracon Consultants Inc
2822 O'Neal Ln Bldg B
Baton Rouge, Louisiana 70816
Agency Interest No. 30697
Activity No. ACC20230001

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I, Phase contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status.

Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of data generated by the laboratory. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. To be accredited initially and maintain accreditation, the laboratory agrees to participate in the LELAP PT program, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation, as required by LAC 33:I.4711.



Tonya Landry
Administrator
Public Participation and Permit Support Division

Issued Date: 6/25/2025
Effective Date: July 1, 2025
Expiration Date: June 30, 2026
Certificate Number: 04009

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Effective Date: July 1, 2025

2822 O'Neal Ln Bldg B, Baton Rouge, Louisiana 70816
Certificate Number: 04009

Terracon Consultants Inc
AI Number: 30697
Activity No. ACC20230001
Expiration Date: June 30, 2026

Air Emissions

Analyte	Method Name	Method Code	Type	AB
---------	-------------	-------------	------	----

Non Potable Water

Analyte	Method Name	Method Code	Type	AB
---------	-------------	-------------	------	----

Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
2084 - Moisture-Density of Soils (Modified Effort)	AASHTO T180	3991	AASHTO	AAP
2082 - Moisture-Density of Soils (Standard Effort)	AASHTO T99	4108	AASHTO	AAP
1730 - Amount Of Soil Finer Than The No. 200 Sieve	ASTM D1140	3550	AASHTO	AAP
1731 - Laboratory Compaction Of Soils (Proctor Density)	ASTM D1557	3551	AASHTO	AAP
1732 - Unconfined Compressive Strength Of Soil	ASTM D2166	3552	AASHTO	AAP
3850 - Moisture content	ASTM D2216-10	30025106	AASHTO	AAP
2439 - Hydraulic Conductivity (granular material)	ASTM D2434	3834	AASHTO	AAP
2086 - One-Dimensional Consolidation Properties of Soils	ASTM D2435	3994	AASHTO	AAP
1734 - Classification Of Soils For Engineering Purposes (Unified Soil Classification System)	ASTM D2487	3554	AASHTO	AAP
1735 - Soil Classification Visual - Manual (Field)	ASTM D2488	3555	AASHTO	AAP
1736 - Unconsolidated, Undrained Triaxial Compression	ASTM D2850	3556	AASHTO	AAP
2090 - Percentage of Organic Material in Soil	ASTM D2974-07A	30026450	AASHTO	AAP
2073 - Dry Preparation of Samples	ASTM D421	3972	AASHTO	AAP
1738 - Particle Size Analysis Of Soils	ASTM D422 (7)	30030854	AASHTO	AAP
1739 - Atterberg Limits of Soils	ASTM D418	3559	AASHTO	AAP
1900 - pH	ASTM D4972	3560	AASHTO	AAP
1744 - Hydraulic Conductivity (Flexible Wall Permeameter)	ASTM D5084	3563	AASHTO	AAP
1954 - In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	ASTM D6938	3854	AASHTO	AAP
1731 - Laboratory Compaction Of Soils (Proctor Density)	ASTM D698	3561	AASHTO	AAP
1743 - Specific Gravity Of Soils	ASTM D854	3562	AASHTO	AAP

Clients and Customers are urged to verify the laboratory's current certification status with the Louisiana Environmental Laboratory Accreditation Program.

Page 1 of 2

20. CERTIFICATIONS/LICENSES:

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

[illegible]

AGGREGATE

Aggregate - C 29 - Unit Weight and Voids in Aggregate
Aggregate - C 40 - Organic Impurities
Aggregate - D 75 - Sampling
Aggregate - C 117 - Material Finer than 75 μ m (No. 200) Sieve
Aggregate - C 127 - Specific Gravity & Absorption in Coarse Aggregate
Aggregate - C 128 - Specific Gravity & Absorption in Fine Aggregate
Aggregate - C 136 - Sieve Analysis of Aggregates
Aggregate - E 329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
Aggregate - C 566 - Total Moisture Content
Aggregate - C 702 - Reducing Samples to Testing Size
Aggregate - C 1077 - Concrete and Concrete Aggregate Testing Standards (Quality Standards)

CONCRETE

Concrete - C 31 - Making and Curing Test Specimens in the Field
Concrete - C 39 - Compressive Strength of Cylindrical Specimens
Concrete - C 78 - Flexural Strength by Third Point Loading
Concrete - C 138 - Unit Weight and Air Content by Gravimetric
Concrete - C 143 - Slump
Concrete - C 172 - Sampling
Concrete - C 173 - Air Content by Volumetric ***required if C231 not performed***
Concrete - C 231 - Air Content by Pressure ***required if C173 not performed***
Concrete - E 329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
Concrete - C 511 - Moist Cabinets, Moist Rooms, Water Storage Tanks
Concrete - C 617 - Capping Cylindrical Specimens
Concrete - C 1064 - Temperature of Concrete
Concrete - C 1077 - Concrete and Concrete Aggregate Testing Standards (Quality Standards)
Concrete - C 1231 - Unbonded Caps

SOILS

Soils - D 421 - Dry Preparation for Particle Size Distribution & Soil Constants
Soils - D 422 - Particle Size Analysis (Sieve and Hydrometer)
Soils - D 698 - Compaction Characteristics by Standard Effort
Soils - D 854 - Specific Gravity of Soils
Soils - D 1140 - Material Finer than 75 μ m (No. 200) Sieve
Soils - D 1557 - Compaction Characteristics by Modified Effort
Soils - D 1883 - CA Bearing Ratio (CBR)

Soils - D 2166 - Unconfined Compressive Strength
Soils - D 2216 - Water Content
Soils - D 2435 - One-Dimensional Consolidation Properties
Soils - D 2487 - Classification of Soils
Soils - D 2488 - Description & Identification of Soils (Visual-Manual Procedure)
Soils - D 2650 - Unconsolidated, Undrained Strength in Triaxial Compression
Soils - D 2974 - Moisture, Ash, & Organic Matter of Peat & Other Organic Soils
Soils - D 3740 - Soil and Rock Testing Standards (Quality Standard)
Soils - D 4253 - Maximum Index Density by Vibratory Table
Soils - D 4254 - Minimum Index Density
Soils - D 4318 - Liquid & Plastic Limits & Plasticity Index
Soils - D 4546 - One-Dimensional Swell or Settlement Potential
Soils - D 4718 - Correlation of Unit Weight and Water Content for Soils Containing Overly Plastic Particles
Soils - D 4943 - Shrinkage Factors of Cohesive Soils by the Water Submersion Method
Soils - D 4972 - pH of Soils
Soils - D 5084 - Hydraulic Conductivity using a Flexible Wall Permeameter
Soils - D 6938 - Density and Water Content by Shallow Depth Nuclear Method

SPRAYED FIRE RESISTIVE

Sprayed Fire Resistive - E 329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
Sprayed Fire Resistive - E 605 - Thickness and Density of Sprayed Fire Resistive Material (SFRM) Applied to Structural Members

CERTIFICATE IS AWARDED TO

BRIAN ALEXANDER

Has successfully completed a flagger training course meeting the
requirement of the

**LOUISIANA DEPARTMENT OF TRANSPORTATION
& DEVELOPMENT**

on the following date

APR 27, 2022

Valid for 4 years from completion date.

Expires APR 27, 2026

This temporary/backup certificate is valid with a government issued photo ID.

Verify this certificate against the information on line use the code below to view or print duplicate
certificates

123-57-74622

Enter the code to verify this certificate in an original at

<https://process.onlineflagger.com/duplicate>

The image shows a USACE Laboratory Validation Certificate. At the top left is the MATC logo, a circular seal with 'MATC' in the center and 'MATERIALS TESTING CENTER' around the perimeter. To the right of the logo, the text 'USACE CERTIFICATE OF LABORATORY VALIDATION' is centered. Further right is the ERDC logo, a colorful circular emblem with 'ERDC' in large letters below it. The center of the certificate features the name 'Tetracon Consultants, Inc.' followed by its address: '2812 O'Neal Lane, Bldg. B Baton Rouge, LA, United States' and 'Metairie, Missouri 62259-24629'. Below this, a paragraph states that the work has been demonstrated by abbreviated audit of its AASHTO accreditation, or by inspection of required records, equipment, procedures, facilities, and/or final reports, in proficiency to perform testing of construction materials, as established by the quality standards of AASHTO R 18 guidance and the requirements of the applicable ASTM standards. The next line reads 'THIS USACE CERTIFICATE OF LABORATORY VALIDATION IS ACCURATE AS OF ITS DATE AND TIME OF GENERATION: 09 JUL 2025 AT 08:50 HOURS'. This is followed by the date and time 'ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 05/23/2027'. A line of text asks the user to 'PLEASE CONFIRM THE CURRENT VALIDATION STATUS OF THIS LABORATORY USING THE SEARCH FEATURE ON OUR PUBLIC WEBSITE: <https://mtc.ercdc.dren.mil>'. Below this text is a handwritten signature 'Chad A. Gartrell' over a horizontal line. At the bottom, the typed name 'Chad A. Gartrell, PE, Director' is followed by 'USACE Materials Testing Center' and 'Vicksburg, Mississippi, USA'.

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.**

Please click this button  to be redirected to our QA/QC plan document.

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 exactly as registered with Louisiana's Secretary of State (SOS); including punctuation, include screenshot(s) from SOS at the end of Section 20)

	Address	Point of Contact and email address	Phone Number
Gresham Smith	10000 Perkins Rowe, Suite 520 Baton Rouge, LA 70810	Herbert "Bert" Moore II, PE, PLS, PTOE bert.moore@greshamsmith.com	(225) 757-5849
Stanley Consultants, Inc.	700 Main Street, Ste. 405 Baton Rouge, LA 70802	Blake Roussel, PE, PMP rousselblake@stanleygroup.com	(225) 388-4211
Watermark Design Group, LLC	4937 Hearst Street, Suite 1B Metairie, LA 70001	Donovan P. Duffy, PE, President dduffy@meyer-e-l.com	(504) 885-9892
Terracon Consultants, Inc.	2822 O'Neal LN, Bldg B Baton Rouge, LA 70816	Lynne Roussel, PE lynne.roussel@terracon.com	(225) 239-2632
Lazenby & Associates, Inc.	2000 North 7th Street West Monroe, LA 71291	Paul D. Fryer, PE, PLS pfryer@lazenbyengr.com	(318) 387-2710
T2 UES, Inc. d/b/a T2 Utility Engineers	3490 Highway 48 Liberty, MS 39645	Suzanne McCain, PE, LSI Suzanne.McCain@T2ue.com	Cell: (601) 341-4830
TRC Engineers, Inc.*	4545 Sherwood Common Blvd. Building 3, Suite A Baton Rouge, LA 70816	Durk Krone dkrone@trccompanies.com	(225) 229-2968

*TRC acquired by WSP Feb 24, 2026

(Add rows as needed)



23. LOCATION:

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

N/A

US 71 ICG RR: SPRING ST REHAB & MARKET ST REPLACE
Louisiana Department of Transportation and Development (LADOTD)

F.A.P. NOS. H012008 AND H012009

PROJECT QUALITY CONTROL PLAN



Submitted to:

Hamed Babaizadeh, Ph.D., P.E., LEED AP BD+C

LADOTD Project Manager

Submitted by: _____

Date: _____

Jonathon Seddelmeyer, PE, Project Manager
WSP USA Inc.

Approved by: _____

Date: _____

Mark Pearson, PE, Quality Assurance Reviewer
WSP USA Inc.



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Appendix B Consultant Kick-Off Meeting Agenda Checklist

Appendix C Project Activity Log Sheet

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Appendix E Bridge Design Criteria Checklist

Appendix F Bluebeam Studio Session QA/QC Review Coversheet

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Appendix H Final Plan and Calculation Book QA/QC Certification

Appendix I Final Calculation Book Checklist

Appendix J Bridge Load Rating Summary Sheet

Appendix K Bridge Load Rating Checklist

Appendix L QA Information Package Checklist

Appendix M Bridge Design Section Records Retention Policy

Appendix N LADOTD Pre-Approved Software List

1.0 INTRODUCTION

This Project Quality Control Plan (PQCP) has been prepared in accordance with WSP USA Inc. (WSP) corporate policy for delivering services of the highest quality and the scope of services for the US 71 ICG RR: Spring St. Rehab & Market St. Replace contract. WSP maintains a documented quality system that conforms to the International Organization for Standardization (ISO). As such, **WSP is certified to ISO 9001:2015 standards**. Appendix A provides a copy of WSP's current ISO certificate. To maintain this certification, external Underwriter Laboratory auditors audit every element of our local operation to verify compliance with ISO standards and our quality system.

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

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

1.1 Contract Description

The contract involves providing engineering support to LADOTD. WSP will provide qualified staff to inspect the three (3) bridge structures referenced in the Scope of Services and develop a Scope of Work to rehabilitate/replace each structure. Provide field inspection, survey/scanning, subsurface investigation, etc. as needed to evaluate the structures and develop the design and construction plans.

Perform LRFR Load Rating and/or NBIS In-Depth bridge inspections, as required, on the three (3) structures listed in the Scope of Services.

The development of construction documents and the performance of construction related engineering services will be added to the contract by Supplement as needed to fulfill the LADOTD's annual bridge program.

1.2 Contract Governing Standards and Criteria

The Scope of Services requires that this contract follows the LADOTD Bridge Design Section Policy for QA/QC as stated in Part I, Chapter 3 of the LADOTD Bridge Design & Evaluation Manual (BDEM).

1.3 Contract Schedule

Services will begin upon receipt of the task work order authorization and as directed by the LADOTD's Project Manager and shall continue until notice is given by the LADOTD's Project Manager to end the services or the approved cost for these services has been exhausted.

1.4 Definition of Terms

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

- Quality Control refers to the procedures of checking the accuracy of the calculations and the drawings, detecting and correcting design omissions and errors before the design plans are finalized, and verifying the specifications for the load-carrying members are adequate for the service and operation loads.
- Quality Assurance refers to the procedures for reviewing the work to ensure the quality control procedures are in place and effective in preventing mistakes, and consistency in the development of bridge design plans and specifications.

2.0 CONTRACT ORGANIZATION

2.1 Contract Team

Figure 1 presents the organizational structure of the team as well as the management, QA/QC and designers assigned to the various elements of this contract. Each member of the team shares the responsibility in ensuring that quality professional services are achieved for this contract.

2.2 Team Member QA/QC Responsibilities and LADOTD's Oversight Role

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

- Jonathon Seddelmeyer, PE, the Project Manager (PM), is the team leader, responsible for allocating resources to various elements of the work, preparing and implementing the PQCP, 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 EORs, identifies the suitable persons/teams to perform QC reviews on each contract element/deliverable. The PM is required to maintain a log that documents when each component of each submittal goes through the QC review phase and the QC review records (marked up plans and documents).

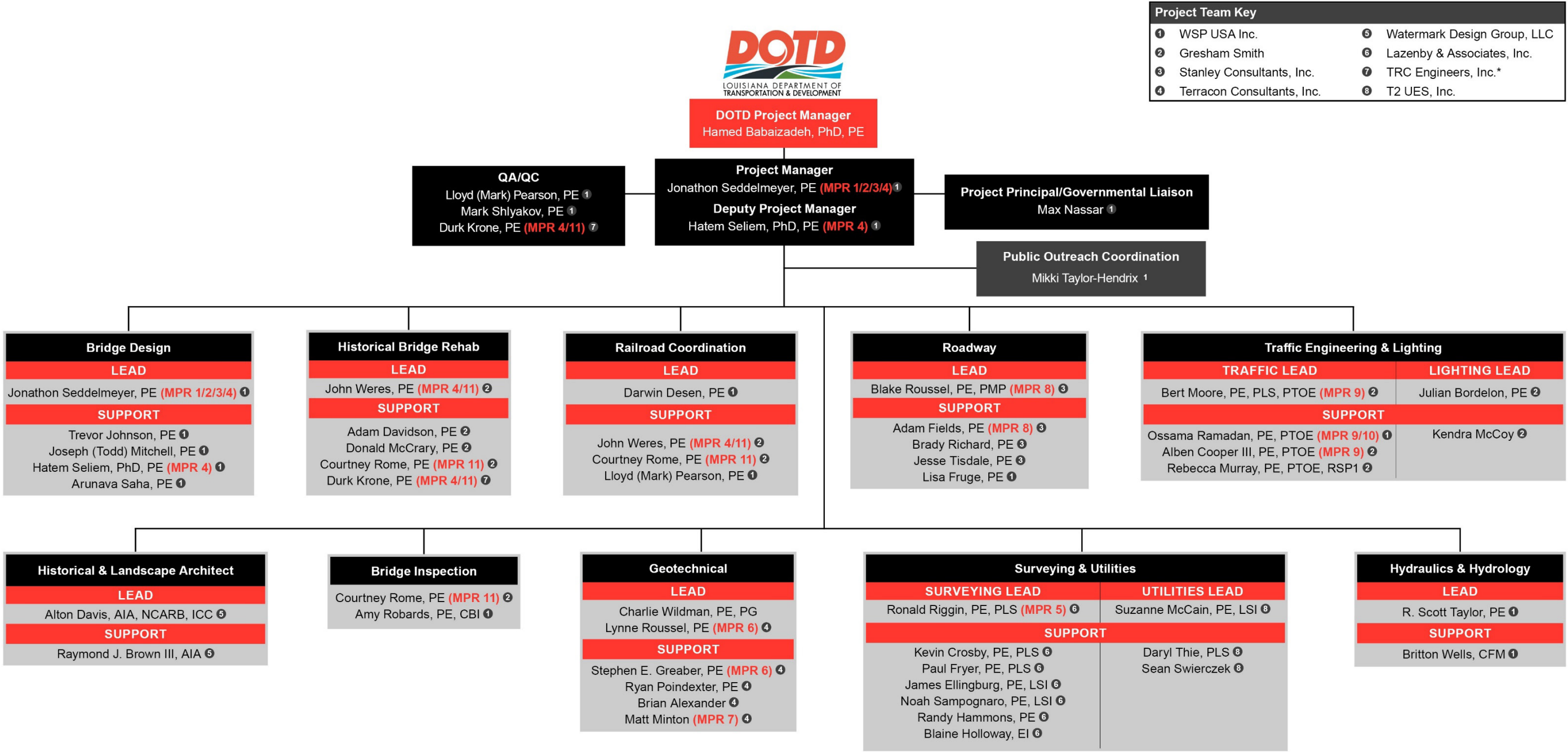
The PM is also responsible for personally performing a final quality check of all work before it is submitted to the LADOTD and ensuring that the procedures outlined in this document have been followed without exceptions. The PM will maintain frequent contact and communication with the LADOTD to assure satisfaction with the contract's progress and performance.

- Designers are responsible for the development of design calculations, drawings, special provisions including Non-Standard items, and cost estimate so that the work is produced in accordance with the Scope of Services and in the form and the character the LADOTD requests and expects. The most important place to ensure quality is at the design 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.

- The Discipline Leads will serve as the Engineer of Record (EOR) and are responsible for the supervision of the calculation, plan and special provision preparation, and is responsible for participation in or oversight of the QC and QA review processes. The EOR must be licensed to practice engineering in the State of Louisiana; and must have demonstrated experience in the design of similar structures. In addition to overseeing the calculations and plan submittal through the QC/QA process, the EOR is responsible for obtaining the seal and signature of any co-signed documents. The EOR is also responsible for assembling the complete final calculation documents in the format prescribed by the LADOTD, assuring that all plan sheets include the designer's, design checker's, detailer's and detail checker's initials and for sealing and ensuring special provisions are accurately shown on the construction proposal.
- Quality Control Checkers are Engineer or Engineers responsible for performing a full technical review of the design calculations, details, drawings, special provisions including Non-Standard items, and cost estimate, verifying the quality and technical adequacy of the contract deliverables and assuring their compliance with applicable standards and requirements. The QC checkers are not directly involved in the preparation of the documents/plans.
- Mark Pearson, P.E., as Quality Assurance Reviewer (QAR), is the reviewer responsible for ensuring that all deliverables have entered the QC review process and adequate time has been allowed to perform a complete QC review. The QAR has the authority to delay the submittal of a deliverable should he deem that this deliverable has not received a satisfactory QC review prior to its submittal. The QAR shall not participate in the production of any elements of the contract.
- LADOTD'S oversight role: The primary expectation is that consulting engineers contracting with the LADOTD take full responsibility for their submittals at all stages of the bridge design process. By the assignment of this responsibility, the LADOTD's bridge design staff expects to provide oversight on the design process but does not expect to be responsible for the checking of bridge designs and plan documents. Specifically, the LADOTD's Bridge Task Manager will be responsible for the following project tasks, as described in the LADOTD's Bridge QC/QA policy:
 - Develop the bridge design scope of work, labor estimate, design team personnel requirements, and selection evaluation criteria for preparation of the solicitation.
 - Participate in the proposal evaluation committee and the selection of the most qualified design team, evaluating design team qualifications, experience and QC/QA plan.
 - Initiate a bridge design/rating kickoff meeting, covering items such as the staffing plan, QC/QA plan, project schedule and budget, share expectations and consultant rating criteria, bridge design criteria, and other project management agenda items per the LADOTD checklist.

- Review and approve the Design Criteria and TS&L submittals for designs. Coordinate revisions in the Design Criteria with the design team for the project duration.
- Monitor the Design Team's implementation of their QC/QA plan.
- Maintain a Project Log sheet recording all major project activities (Project Meetings, Submittals, LADOTD Review Comments, Major Decisions, etc).
- Review all Design Team submittals, intended to be a cursory review for constructability, consistency and clarity. These reviews are not intended to be a secondary QC of the Design Team's work.
- Monitor project schedule and milestone deliverables.
- Monitor Design Team effort with respect to scope and budget; process supplemental agreements; monitor claims avoidance.
- Review and approve invoices; verify Design Team staff is consistent with proposal; Review and approve qualifications of replacement staff proposed by the Design Team, if necessary.
- Perform a consultant rating for each formal submittal by the Design Team; share ratings and provide feedback to Design Team.
- Archive final bridge design files.

Figure 1 Project Staff



*TRC acquired by WSP Feb 24, 2026

3.0 QUALITY CONTROL AND QUALITY ASSURANCE REVIEWS

3.1 General

Prior to its submittal, each deliverable will undergo QC and QA reviews consistent with this PQCP 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.

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

- The deliverable *Designer* (for documents, plans, and calculations). During the QC process, this individual also functions as the *Originator*, *Corrector*, and *Backchecker*.
- The *QC Checker* who will also function as the *Verifier*.

Deliverables resulting from the participation of multiple disciplines may involve multiple Originators/Backcheckers/Correctors and QC Checkers/Verifiers. All QC Checkers/Verifiers will be qualified, experienced engineers/planners/scientists who were not actively involved in the preparation of the deliverable. No Originator will perform a formal quality control check on his/her own work.

QA reviews will be performed by the QAR.

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

The checking procedures that will occur during the QC and QA reviews are discussed in the following sections. Figure 2 provides a flow diagram of the QC and QA review processes for documents.

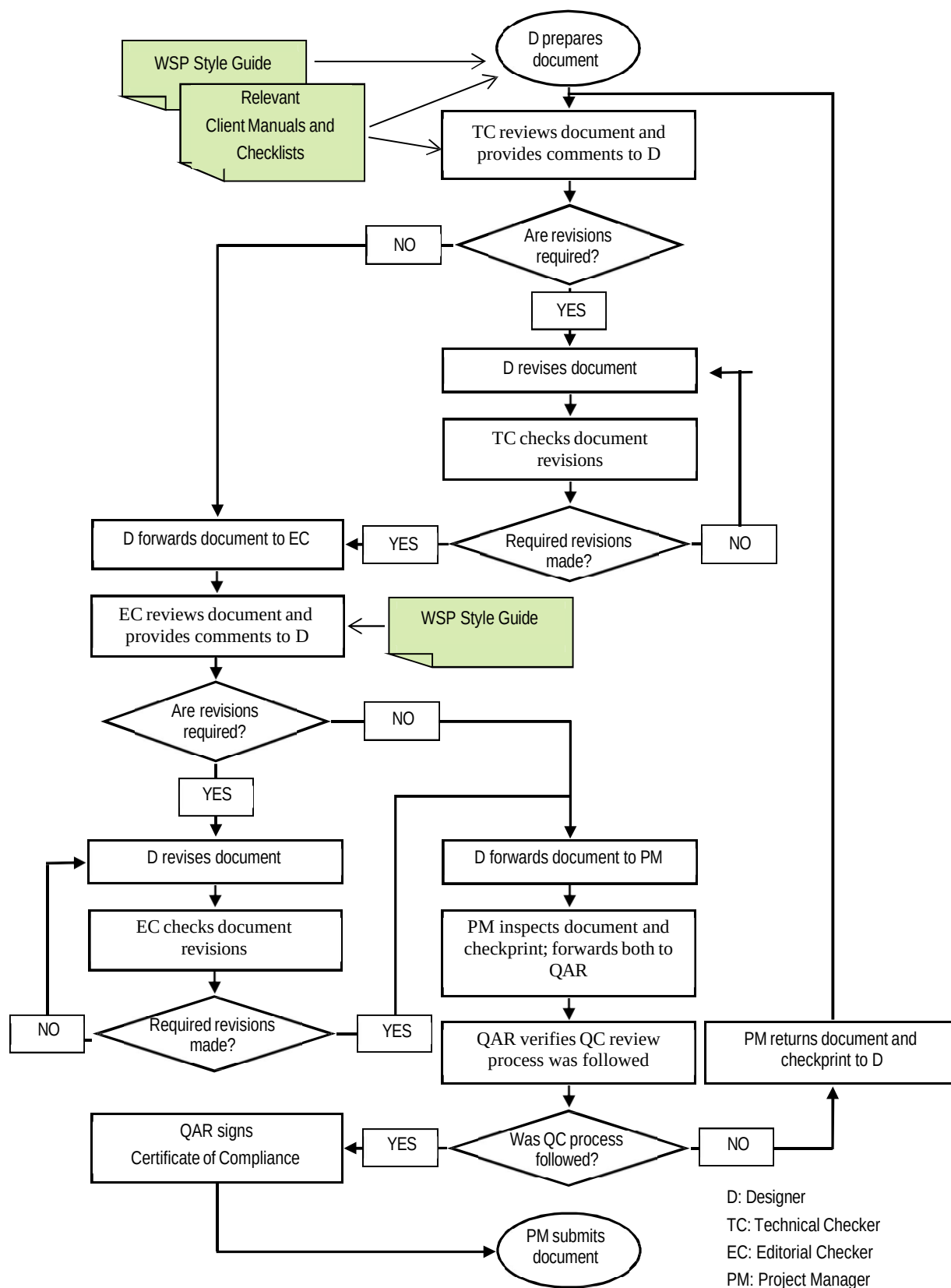
3.2 Checking Procedures

Each document developed for the US 71 ICG RR contract will undergo two QC reviews. The first QC review will be a technical review to check the technical accuracy of the document's content and its compliance with applicable guidelines, procedures, regulations, and standards. The second QC review will be an editorial review to check for spelling, grammar, formatting, readability, and consistency.

3.2.1 Bluebeam Checking of Documents

As each document (drawings, study, report, specification) is completed in its final PDF form and deemed ready for checking, the Originator prepares a checkprint copy with a QA/QC Review Coversheet appended to the front of each document being checked. The Designer will fill out the top and the "Discipline" & "Originator" columns on the left side of the of the Bluebeam Studio Session coversheet found in Appendix B. The Coversheet must be added to the PDF before adding the PDF to a Bluebeam Revu Studio session.

Figure 2
Document Quality Control and Quality Assurance Process



The checkprint(s) are to be uploaded to a Bluebeam Revu Studio session by the Project Manager, Quality Manager, or designee (e.g. Deputy PM, Document Controller, host, etc.). Invite all reviewers to the Bluebeam Revu Studio session and manage access to each session. The checker (a qualified individual independent of the originator) reviews each checkprint for technical adequacy and conformance to applicable standards, scope and format, including performing specific accuracy checks for the type of document. The checking activity is recorded directly in the Bluebeam Revu Studio using the 'QC Check' Toolset or other Bluebeam mark-up tools provided they maintain the specific color structure of the QC stage, see Figure 3.

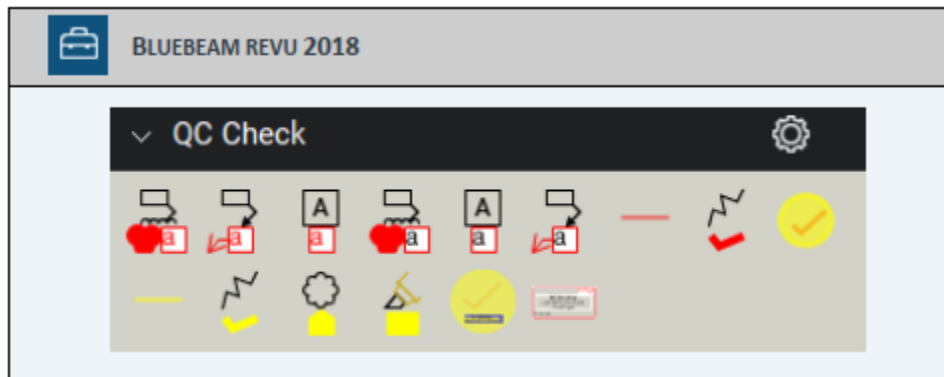
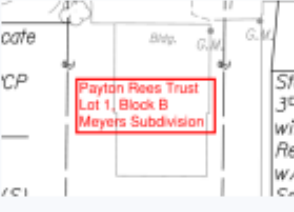
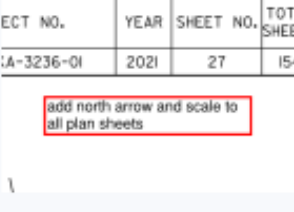


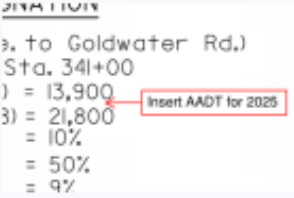
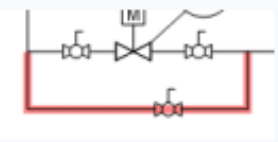
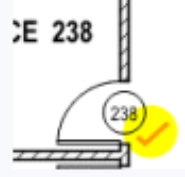
Figure 3 Bluebeam 'QC Check' Toolset

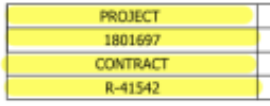
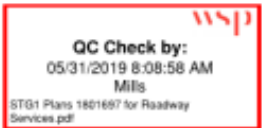
If the connection to the session is interrupted or the user chooses to Disconnect and work offline, mark-ups will not be saved to the session until the connection is restored. DO NOT close Bluebeam if mark-ups have been added while disconnected before reconnecting and allowing mark-ups to be saved to the session.

Table 1 below provides an overview of the tools to be used by the assigned checker(s).

Table 1
Description of Checking Tools

TOOL	SYMBOL (2018)	SAMPLE	FUNCTION
Red Cloud Tool with Red Text	 OR 		- To be used for features found to be in error (corrections, additions and/or changes). - Error can be clouded and direct edit indicating clearly what needs to be changed included in the text box. - Double click to toggle between Drawing Mode and Properties Mode.
Red Callout Tool with Red Text	 OR 		- To be used for features found to be in error (corrections, additions and/or changes). - Error can be pointed to with arrow and direct edit indicating clearly what needs to be changed included in the text box. - Double click to toggle between
Red Text Box with Red Text	 OR 		- To be used for features found to be in error (corrections, additions and/or deletions). - Error can be a direct edit indicating clearly what needs to be changed included in the text box. - Double click to toggle between Drawing Mode and Properties Mode.
Red Cloud Tool with Black Text	 OR 		- To be used for general comments or typical errors (corrections, addition and/or deletions). - Comment can be clouded and included in the text box. - Double click to toggle between Drawing Mode and Properties Mode.
Red Text Box with Black Text	 OR 		- To be used for general comments or typical errors (corrections, addition and/or deletions). - Comment can be indicating clearly what needs to be changed included in the text box. - Double click to toggle between Drawing Mode and Properties Mode.

TOOL	SYMBOL (2018)	SAMPLE	FUNCTION
Red Callout Tool with Black Text	 OR 		- To be used for general comments or typical errors (corrections, addition and/or deletions). - Item can be pointed to with arrow and comment indicating clearly what needs to be changed included in the text box. - Double click to toggle between Drawing Mode and Properties Mode.
Red Polyline Tool	 OR 		- To be used for features found to be in error (corrections, additions and/or deletions). - Error can be traced to provide further clarity. - Proposed change can be drawn to provide further clarity. - Double click to toggle between Drawing Mode and Properties Mode.
Yellow Checkmark			Can be used to mark features found to be correct
Yellow Polyline	 OR 		- Can be used to mark features found to be correct - Double click to toggle between Drawing Mode and Properties Mode.
Yellow Polygon			Can be used to mark large areas found to be correct

TOOL	SYMBOL (2018)	SAMPLE	FUNCTION
Yellow Highlighter			- Can be used to mark text or features found to be correct - Hold the Ctrl button down to toggle between text highlight mode and freeform highlight mode
Page Previously Checked			Used to note page was checked in a previous documented QA/QC process and no changes have been made since last check.
Check Stamp			To be placed on QA/QC Review Coversheet by the checker when check has been completed. Note: information (date, author, document name) is recorded automatically based on the Bluebeam account being used.

Checker should indicate if portions of the deliverable were not reviewed. The Checker may place a stamp on the applicable portions of the deliverable or indicate via stamp which portions of the deliverable have not been reviewed on the QA coversheet.

The backchecker (usually the Originator, EOR, or Technical Lead) reviews the checker's marked changes on the checkprint within the Bluebeam Revu Studio session. The backchecking activity is recorded directly in the Bluebeam Revu Studio session using both the Bluebeam 'Set Status' function (Figure 4) and 'QC Backcheck' Toolset (Figure 5). To change the status of a comment, select the comment, right-click, scroll down on the pop-up screen to 'Set Status', select one of the three options for the Backchecker described in more detail below. The Originator will consult with the appropriate person(s) to resolve any conflicts and revise the document accordingly.

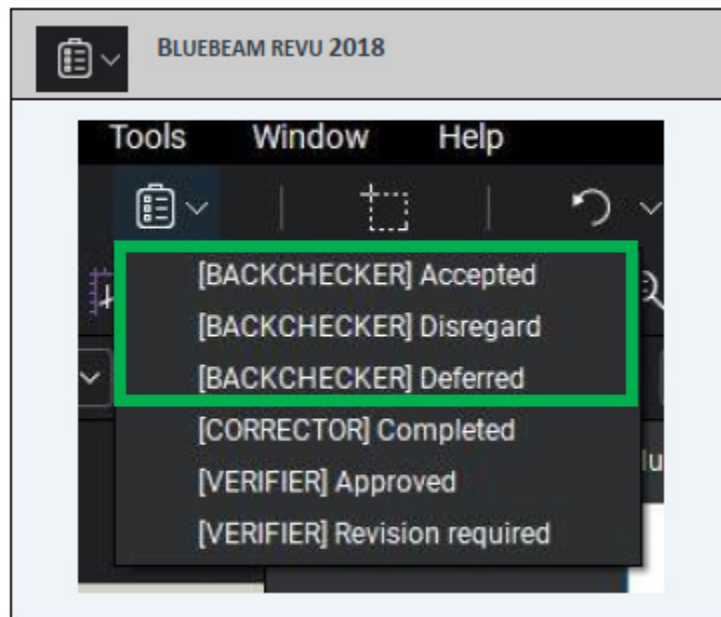


Figure 4 Bluebeam Backchecker 'Set Status' Function

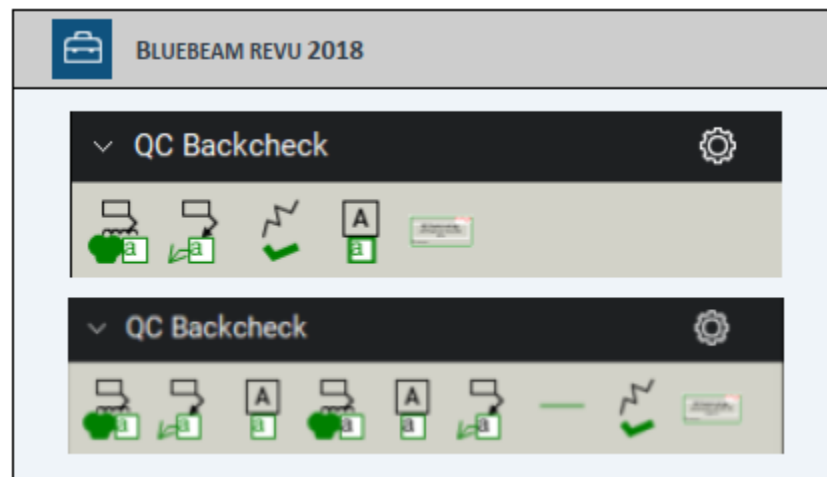


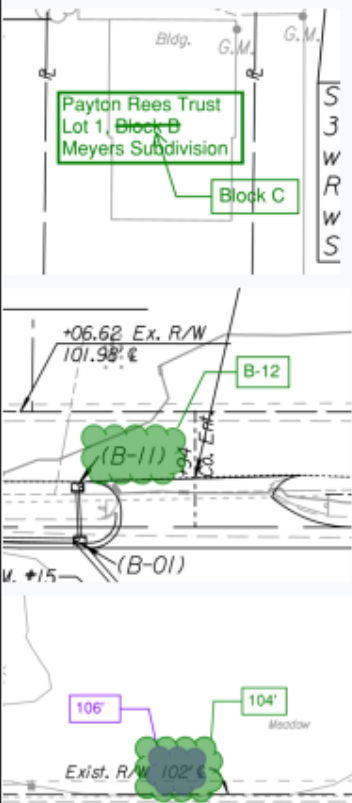
Figure 5 Bluebeam 'QC Backcheck' Toolset

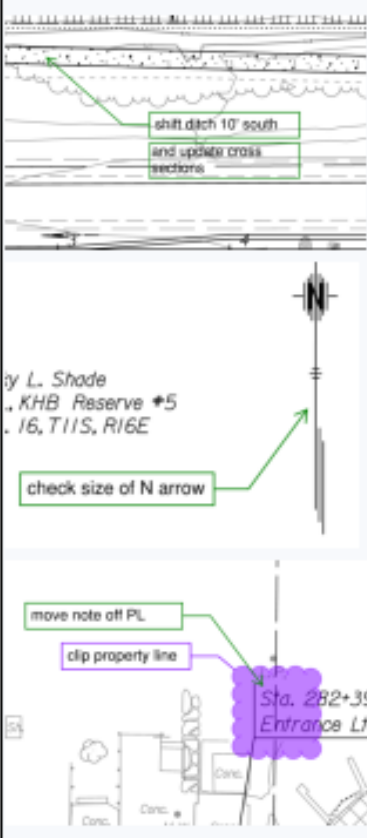
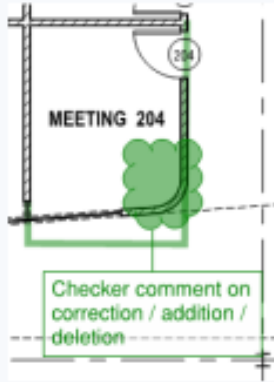
- **[BACKCHECKER] Accepted:** Selected if in agreement that the Checker's correction, addition, and/or deletion should be incorporated. Additional information can be provided using the Backcheck toolset as detailed in Table 2. The original comment will change to GREEN once this status is selected.
- **[BACKCHECKER] Disregard:** Selected if the backchecker (and checker) confirm the comment, markup, or change need not be incorporated. The Backchecker and Checker resolve differences encountered during the checking process so they are clear for the Corrector and not repeated in subsequent documents generated. Resolutions are to be undertaken and recorded within the Bluebeam Revu

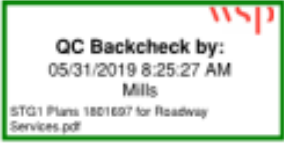
Studio session via the 'Reply' function. The original comment will change to PURPLE once this status has been selected. The use of 'STET' is not allowed.

- **[BACKCHECKER] Deferred:** Selected if the backchecker (and checker) confirm that the checker's correction, addition, and/or deletion should be incorporated but will be deferred to a future submission if appropriate to do so. The original comment will change to ORANGE once the status has been selected.

Table 2
Description of Backchecking Tools

TOOL	SYMBOL (2018)	SAMPLE	FUNCTION
Backcheck Direct Edit Tools	 OR  OR  OR  OR  OR 		• To be used to add additional detail, clarification for direct edit on the accepted checker comment. • To be used to add any additional corrections, additions for direct edit not picked up by the checker. • <u>To be used to override a disregarded comment made by the checker with a direct edit.</u>

TOOL	SYMBOL (2018)	SAMPLE	FUNCTION
Backcheck Comment Tools	 OR  OR  OR  OR 		- To be used to add additional detail, clarification or <u>comments</u> on the accepted checker comment. - To be used to add any additional <u>comments</u> not picked up by the checker. - To be used to <u>override a disregarded comment made by the checker</u>.
Green Polyline Tool	 OR 		- To be used to add additional detail, clarification or comment on the accepted checker comment. - To be used to add any additional corrections, additions and/or deletions not picked up by the checker. - Change can be traced to provide further clarity. - Proposed change can be drawn to provide further clarity. - Double click to toggle between Drawing Mode and Properties Mode and to end the polyline.

TOOL	SYMBOL (2018)	SAMPLE	FUNCTION
Backcheck Stamp			To be placed on QA/QC Review Coversheet by the backchecker when check has been completed. Note information (author, document name, date) is recorded automatically based on the Bluebeam account being used.

Correction of the original document is supervised or performed by either the Originator/Backchecker or Checker since both know what needs to be changed. The correcting activity is recorded directly in the Bluebeam Revu Studio session using both the Bluebeam 'Set Status' function (Figure 6) and the 'QC Correcting' Toolset (Figure 7) only. To change the status of a comment, select the comment, right-click, scroll down on the pop-up screen to 'Set Status', select the option for Corrector described in more detail below.

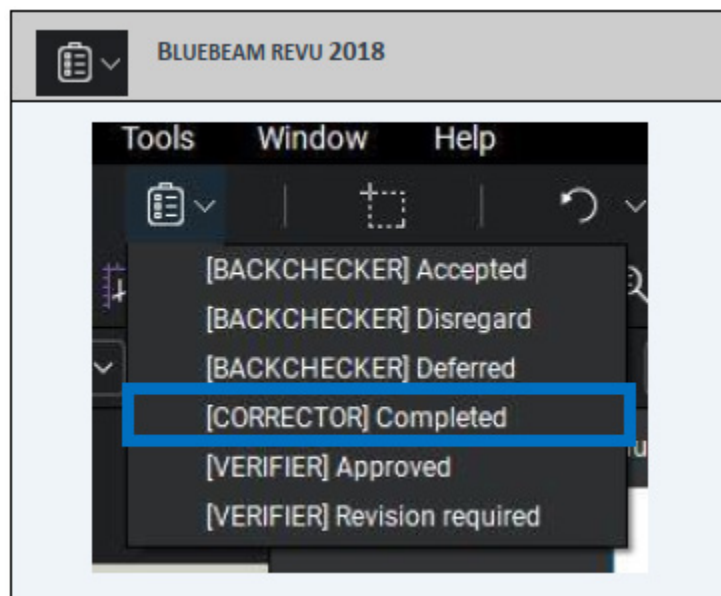


Figure 6 Bluebeam Corrector 'Set Status' Function

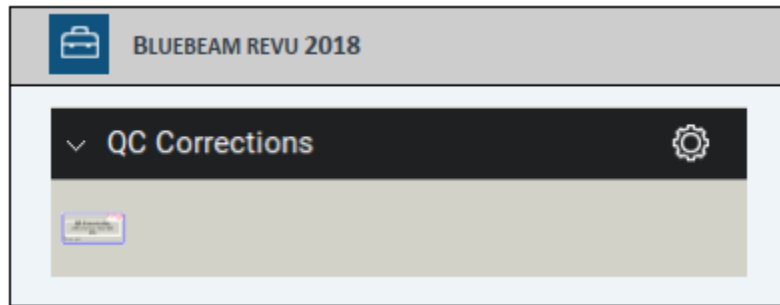


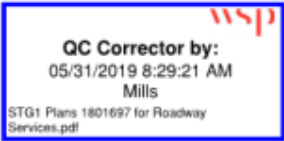
Figure 7 Bluebeam ‘QC Corrections’ Toolset

The Corrector makes edits to the deliverable based on the ACCEPTED Checker’s correction, addition, and/or deletion or the Backchecker’s correction, addition, and/or deletion only, i.e. all comments/markups recorded in GREEN. The Corrector should filter the markups to show only the GREEN comments/markups to facilitate this step.

The Corrector selected the **[CORRECTOR] Completed** status for the GREEN comments/markups within the Bluebeam Studio session as it is incorporated. The comment/markup turns to BLUE once the status has been set to completed. Any additional comments or clarifications are to be recorded by the Corrector using the ‘Reply’ function within the session. Any comments/markups not corrected or fully understood by the Corrector should be left in their Backchecker GREEN status so they can be filtered for discussion/resolution.

Table 3 provides an overview of the tools to be used by the assigned Corrector(s).

**Table 3
Description of Correcting Tools**

TOOL	SYMBOL (2018)	SAMPLE	FUNCTION
Backcheck Stamp			To be placed on QA/QC Review Coversheet by the corrector when check has been completed. Note information (author, document name, date) is recorded automatically based on the Bluebeam account being used.

The Corrector provides the host of the Bluebeam Revu Studio Session (PM, Document Controller, QA Manager, etc.) a clean print of the checkprint(s) with corrections, additions, and/or deletions incorporated. The host uploads the clean print (the QA/QC Review Coversheet is not required for the clean print) to the session.

The verifying activity is recorded directly in the Bluebeam Revu Studio Session using the Bluebeam ‘Set Status’ function (Figure 8) and the ‘QC Verification’ Toolset (Figure 9) only. To change the status of a comment, select the comment, right-click, scroll down on

the pop-up screen to 'Set Status', select one of the two options for Verifier described in more detail below.

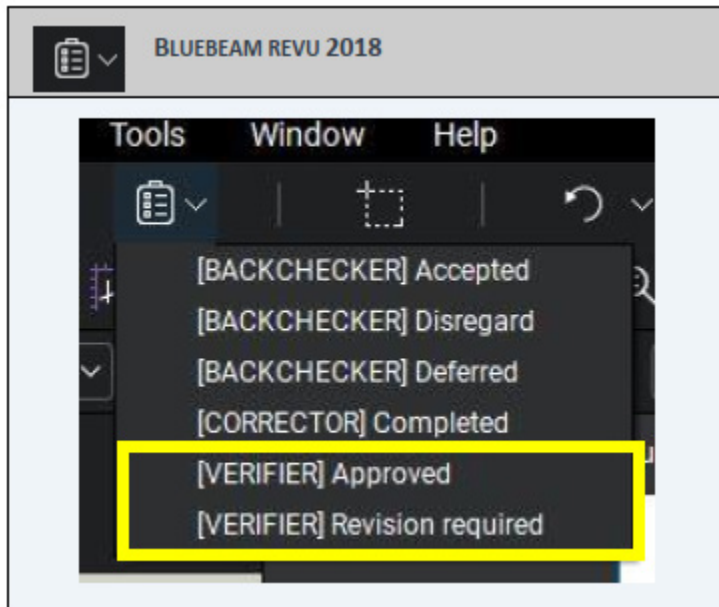


Figure 8 Bluebeam Verifier 'Set Status' Function

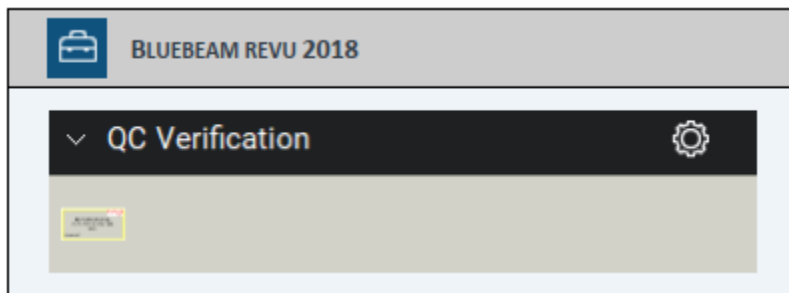


Figure 9 Bluebeam 'QC Verification' Toolset

The Verifier confirms that there are no outstanding corrections, additions, and/or deletions to be corrected, i.e. no RED, BLACK, or GREEN comments/markups remaining in the Bluebeam Session. The Verifier should filter the comments to only show the RED and GREEN comments/markups to facilitate this step.

If a RED, BLACK, or GREEN comment/markup remains, the Verifier is to discuss with the Corrector as to whether the markup correction is required with the status **[VERIFIER] Revision Required** selected, or if the comment/markup status should be changed to **[BACKCHECKER] Disregard** (PURPLE) or **[BACKCHECKER] Deferred** (ORANGE). The status is to be changed according to the agreed resolution.

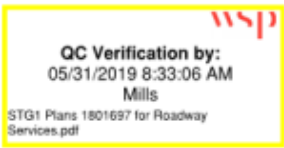
The Verifier confirms the corrections for all comments marked as Completed by the Corrector are made on the clean print, i.e. all comments/markups recorded in BLUE.

The Verifier should filter the comments to only show the BLUE comments/markups to facilitate this step. The Verifier selects the appropriate status for the comment/markup within the Bluebeam Studio Session:

- **[VERIFIER] Approved:** Selected if the Verifier confirms that the correction, addition, and/or deletion has been incorporated without error. The original comment will change to YELLOW once this status is selected.
- **[VERIFIER] Revision Required:** Selected if the correction, addition, and/or deletion is not made or is incorrect, the clean print is marked up using the tools from the QC Checker Toolset and the Corrector is alerted of changes required. The original comment will change to RED once this status is selected. Once the change has been made per the marked up clean print, the status is to be recorded on the original comment made on the original checkprint, and NOT on the marked up clean print version.

Table 4 provides an overview of the tools to be used by the assigned Verifier:

Table 4
Description of QC Verification Tools

TOOL	SYMBOL (2018)	SAMPLE	FUNCTION
QC Verified Stamp			• To be placed on QA/QC Review Coversheet on the checkprint file by the verifier when all corrections have been made properly and only 'Approved', 'Deferred' or 'Disregarded' comments remain on the checkprint. Note: information (author, document name, date) is recorded automatically based on the Bluebeam account being used.

Once all the corrections have been made properly, all comments are marked as:

1. 'Approved' and are YELLOW,
2. 'Deferred' and are ORANGE, or
3. 'Disregard' and are PURPLE,

The Project Design Document is considered ready for QA Verification. There should be no RED, BLACK, GREEN, or BLUE comments remaining. Any significant submittal changes following the original checkprint creation, i.e. new sheets added, must undergo a complete QC prior to submittal.

Once the QC process is complete, the QA Manager or delegate confirms that the QC process was followed and places the 'QA Verification' stamp on the coversheet of each document.

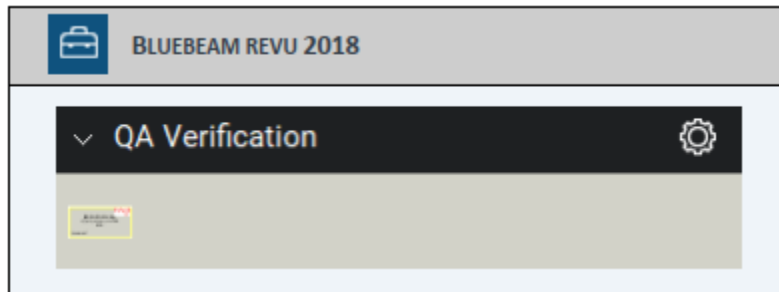
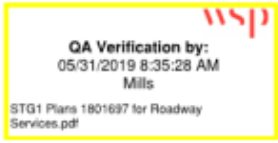


Figure 10 Bluebeam 'QA Verification' Toolset

Table 5
Description of QA Verification Tools

TOOL	SYMBOL (2018)	SAMPLE	FUNCTION
QA Verified Stamp			To be placed on QA/QC Review Coversheet on the checkprint file by the teammember serving in the Quality Assurance role. Note: information (date, author, document name) is recorded automatically based on the Bluebeam account being used.

Once the QA review is complete and the Check, Backcheck, Corrected, and Verified stamps are recorded on the QA/QC Review Coversheet of each checkprint in the Bluebeam Revu Studio Session, the Studio Session is converted to Read-Only status by the host, PM, or designated person and all Session documents and markup list are exported to the WSP Project Folder. It is necessary to export the information to the local WSP project folder, otherwise the information will be lost. Once a Bluebeam Revu Studio Session is closed, the information is not longer available on Bluebeam servers.

If a document is subsequently revised after verification is complete, a new original is prepared and the checking process is reinitiated. The earlier checkprint is marked SUPERSEDED or VOID, although it may be used as a reference during the preparation of the revised document. The revised document is then checked and backchecked, and the original document is corrected and verified as indicated in the above procedure. If necessary, the revised document is reissued via Bluebeam to the recipients of the original version with directions to discard the superseded/void version.

3.2.2 Manual Checking of Drawings

Drawings are prepared by teams of staff, under the direction of lead engineers/planners 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 a completed deliverable, it will be independently checked by a qualified QC Checker for:

- Conformance with the design criteria and contract requirements
- Completeness and clarity
- Coordination with other aspects of the contract, i.e., structural, civil, traffic, right-of-way, etc., and with other associated contract documents
- Compatibility of notes and references
- CADD standards, graphic standards and good plans preparation practice

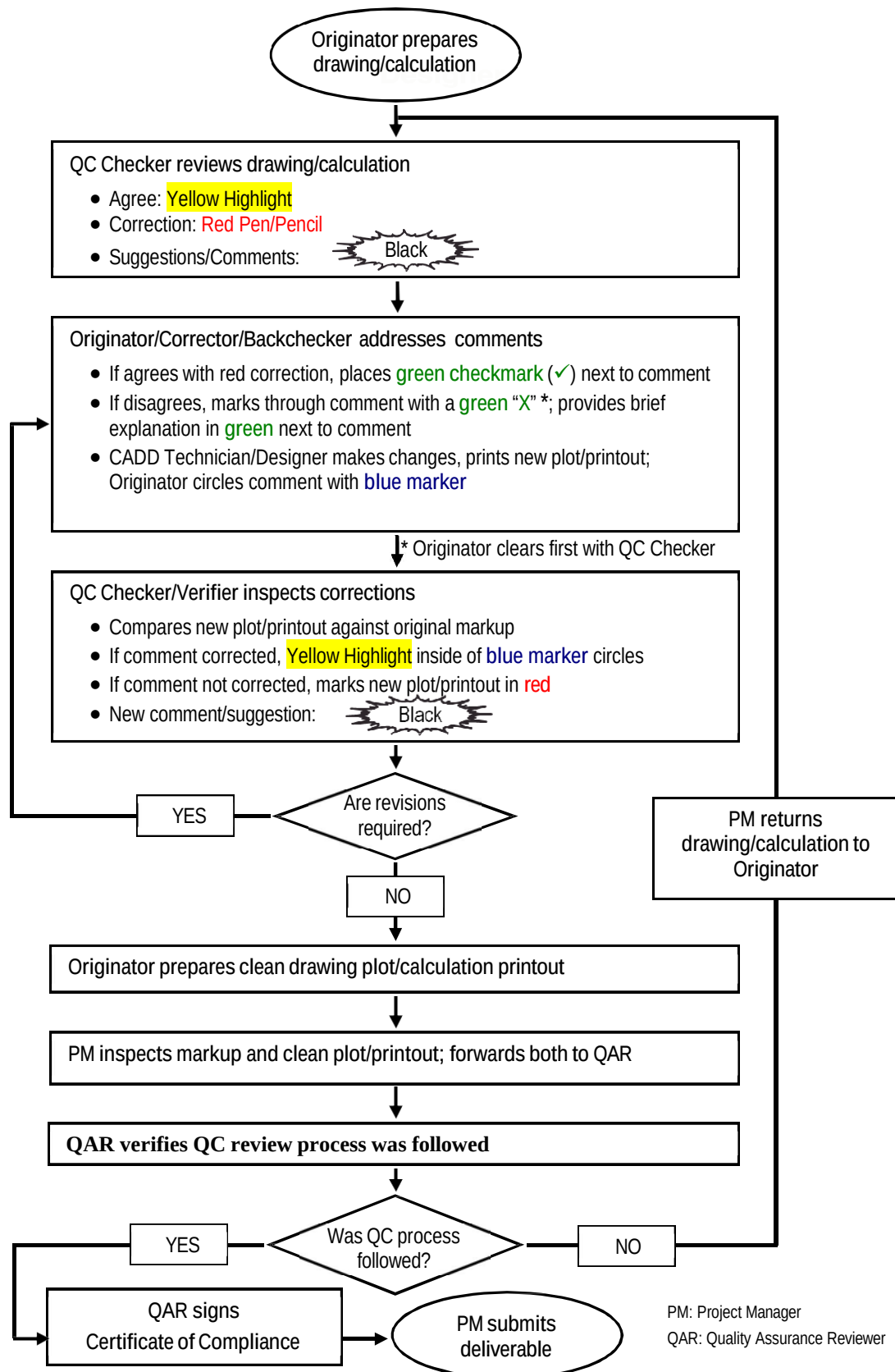
The first formal issue of a drawing is the checkprint and is routed by its Originator (the responsible engineer/planner) to the assigned QC Checker(s). Multiple copies of checkprints may be routed to several QC Checkers of different departments with interfacing responsibilities. The Originator will place QC stamp, shown in Figure 11, on all drawings and fill-in the first line. The QC Checkers will inspect the drawings to determine if they meet the objectives of the task and are complete, accurate and suitable for their intended use.

Figure 11
Drawing and Calculations QC Stamp

wsp			
SUBMITTAL _____ QC CHECKING PROCESS			
	Signature	Date	Discipline
ORIGINATOR (Ready for Checking)			
CHECKER Correct: Yellow Highlight Incorrect: Red Markups Comments: Black Cloud			
BACKCHECKER (Originator) Agree: Green Checks Disagree: Green Strike Through			
CORRECTOR Blue Circle			
VERIFIER Correct: Green Circle Incorrect: Red on clean print & return To Backchecker New Comment: Black Cloud			
QC Process Approved By:			

The checking process used for drawings is described below and shown in Figure 12.

Figure 12
Drawing and Calculations Quality Control and Quality Assurance Process



All items on the drawing(s) must be marked by the QC Checker to indicate either agreement or disagreement. The following colors will be used:

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

As the QC Checkers inspect and mark each drawing, they will also fill-in the second line of the QC stamp. Following their review, the QC Checkers will return the checkprints to the Originator.

The Originator, acting as the Backchecker, will inspect and confirm the suggested corrections/comments, consolidate and coordinate comments from different QC Checkers and (if needed) consult with the checkers and other appropriate person(s) to resolve any conflicts. A green checkmark 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 Checker(s), will be crossed out with a green "X." A brief explanation will be written in green next to the comment. As the Originator/Backchecker 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 Checker's comment on the checkprint. As each drawing is inspected, the Originator/Corrector will fill-in the fourth line of the QC stamp. After this task is completed, both the checkprint and the clean drawing(s) will be returned to the QC Checker.

The QC Checker, acting as the Verifier, will back-check the revised drawing(s) against the checkprint. If he/she finds that the comment has been properly addressed, the QC Checker/Verifier will circle the comment in green. If he/she finds that a comment is not satisfactorily addressed and/or has new comments, the QC Checker/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 Checker/Verifier, he/she will fill-in the fifth line of the QC stamp on each drawing of the checkprint.

3.2.3 Manual Checking of Calculations

Calculations can be either computer-generated printouts or manual. Manual calculations will be prepared in pencil on the standard WSP computation sheets (shown in Figure 13). 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 shall be stated in the calculations. Assumptions with limited application should immediately precede the calculations to which they apply.

The QC and QA review processes to be followed for the calculations are the same as drawings QC and QA review processes, shown in Figure 13.

Figure 13
WSP Manual Computations Sheet

Project _____

Subject _____

Originator's Name _____

Computed by _____

Checked by _____

QC Checker's Name _____

Sheet No. _____ of _____

Project # _____

Date _____

Date _____

After completion of his/her task, the Originator (the designer/analyst responsible for the calculations) will stamp all computation sheets, computer printouts and any related support attachments with the QC stamp (shown in Figure 5); preferably on the back of each page to avoid clutter. The Originator will fill-in the first line of the QC stamp. The assembled package will be the checkprint.

The Originator will review the data and the scope of the work with the assigned QC Checker. The Originator will provide the QC 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 Checker will verify that all information is appropriate, correct, complete, consistent, legible and reproducible. The QC Checker will mark all items on the calculation sheets and all printouts to indicate his/her agreement or disagreement. The following is the color code to be used for marking calculations:

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

As the QC Checker inspects and marks each page of the checkprint, he/she will also fill-in the second line of the QC stamp.

Following his/her review, the QC Checker will return the checkprint to the calculations Originator. The Originator, acting as the Backchecker, will inspect and confirm the suggested corrections/comments, consolidate and coordinate comments from different QC Checkers, and (if needed) consult with the QC Checkers and other appropriate person(s) to resolve any conflicts. Green checkmarks 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 Checker(s), will be crossed out with a green "X." A brief explanation will be written in green next to the comment.

As the Originator/Backchecker reviews each calculation page and decides on the appropriate follow up action for each comment, he/she will also 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 on each page of the checkprint and print a revised, clean calculations set. Both the checkprint and the clean calculations set will be then returned to the QC Checker(s).

The QC Checker(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 Checker/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 Checker/Verifier will mark the revised calculations set and 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 Checker/Verifier, he/she will fill-in the fifth line of the QC stamp on each page of the checkprint.

At the closing of the QC review process, the PM will inspect the checkprint and final calculations set to verify that the QC process has been 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 on each page of the checkprint and will prepare and sign the Certificate of Compliance (see Appendix C). The PM will forward the checkprint, the final calculations set and the signed Certificate of Compliance to the QAR.

3.2.4 Closing of QC Review Process

At the closing of the QC review process, the PM will inspect checkprints, QC Status, QC Stamps, and final documents to verify that the process has been followed, all comments were properly addressed, and the deliverable meets the LADOTD's expectations. After completing this inspection, the PM will fill-in the sixth line of the QC stamp on each page of hardcopy checkprints, if applicable, and prepare & sign the Certificate of Compliance (see Appendix C). The PM will forward checkprints, final documents, the completed QC form, and the signed Certificate of Compliance to the QAR.

As a final check, the QAR 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 QAR will also sign the Certificate of Compliance, which will be submitted to the LADOTD with the submittal drawing(s). If the QAR 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 checkprints, a record copy of the submitted drawings and a copy of the Certificate of Compliance will be archived by the PM in the contract's QC files for record keeping. In cases where hardcopies of the submittal drawings and checkprints are too voluminous to handle and store, electronic files will be created and stored in the contract's files. In these cases, the paper QC records will still be maintained in storage at a remote location.

3.3 Resolution of Technical Differences

During the QC review process, there may be differences in opinions between the QC Checker and the Originator on whether a comment is valid or how it should be addressed. If the QC Checker 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 Checker will inform the PM on the issue who will seek the assistance of a senior technical expert to resolve the difference. If necessary, the issue will be taken to the Department Manager and/or Principal-in-Charge for resolution.

3.4 Internal Quality Audits

In accordance with our QA/QC policy, WSP will conduct an internal quality audit for this contract annually. The contract quality audit will be conducted by a certified internal auditor who is independent of the contract. The audit will focus on quality processes for the contract.

4.0 DOCUMENTATION OF COMMENTS/RESPONSES AND QUALITY ASSURANCE RECORDS

4.1 Documentation of Comments and Responses

All comments made by external reviewers shall be recorded either by memos, letters or marked plans received from the reviewers. If comments are received through meetings with reviewers, minutes summarizing the comments received will be prepared. Comments received by a contract team member other than the PM will be forwarded to the PM. Where it is necessary to discuss and clarify the comments with the reviewer(s) prior to responding, the PM shall arrange for the meeting.

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

After submittal of the comments/responses and verification by the PM that the responses are acceptable, the responsible designers for the deliverable will make the necessary revisions to the deliverable in accordance with the responses. Each comment/response on the memorandum shall be initialed by the appropriate designer, indicating that they have verified that the comment response has been adequately implemented.

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 contract's files.

4.2 Quality Assurance Records

The Project Manager will be responsible for maintaining QC and QA records for all contract deliverables. The records will be readily accessible in properly labeled folders within the contract's files.

Appendix A

WSP ISO Certificate



This is to certify that the Quality Management System of:

WSP USA Inc.

Corporate Office
1 Penn Plaza
New York NY 10119
United States of America

(Central function listed above. See appendix for additional locations)

applicable to:

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

has been assessed and approved by
National Quality Assurance, U.S.A., against the provisions of:

ISO 9001:2015

A handwritten signature in black ink, likely belonging to a representative of NQA, USA.

For and on behalf of NQA, USA



Certificate Number: 16855
EAC Code: 34
Certified Since: December 1, 2009
Valid Until: January 3, 2027
Reissued: June 19, 2025
Cycle Issued: January 4, 2024

Certificate of Registration



Appendix to Certificate Number: 16855

Includes Facilities Located at:

WSP USA Inc.

Certificate Number 16855
Corporate Office
1 Penn Plaza
New York NY 10119
United States of America

Corporate QMS Headquarter Support Activities and Management Oversight of the WSP U.S. ISO 9001 Management System.

WSP USA Inc.

Certificate Number 16855
3260 Lone Tree Way
Antioch CA 94509
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
4840 Pearl East Circle
Boulder CO 80301
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
1100 Boulders Parkway, Suite 503
Richmond VA 23225
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

Certified Since: December 1, 2009

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Certificate of Registration



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Appendix to Certificate Number: 16855

Includes Facilities Located at:

WSP USA Inc.

Certificate Number 16855
100 North Parkway
Worcester MA 01605
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
3102 Oak Lawn Avenue
Suite 450
Dallas TX 75219
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
1 Penn Plaza
New York NY 10119
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
2570 N First Street
San Jose CA 95131
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

Certified Since: December 1, 2009

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Certificate of Registration



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Appendix to Certificate Number: 16855

Includes Facilities Located at:

WSP USA Inc.

Certificate Number 16855
6 Research Drive
Shelton CT 06484
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
10 Al Paul Lane
Merrimack NH 03054
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
500 Summit Lake Drive
Valhalla NY 10595
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
9655 Katy Freeway, Suite 200
Houston TX 77024
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

Certified Since: December 1, 2009

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Appendix to Certificate Number: 16855

Includes Facilities Located at:

WSP USA Inc.

Certificate Number 16855
1300 N. 17th Street,
Suite 1000
Arlington VA 22209
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
5613 DTC Parkway,
Suite 500
Greenwood Village CO 80111
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
211 North Broadway
Metropolitan Sq Bldg, Suite 2800
St Louis MO 63102
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
300 South Fourth Street, Suite 1200
Las Vegas NV 89101
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

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Includes Facilities Located at:

WSP USA Inc.

Certificate Number 16855
7255 Corporate Center Drive, Suite F
Miami FL 33126
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
999 18th Street, Suite 1825N
Denver CO 80202
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
115 W Washington St, Suite 1270S
Indianapolis IN 46204
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
One Riverfront Plaza
1037 Raymond Boulevard, Suite 200
Newark NJ 07102
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

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Includes Facilities Located at:

WSP USA Inc.

Certificate Number 16855
1230 W. Washington St.
Suite 400
Tempe AZ 85281
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
1 East Pratt St, Suite 300
Baltimore MD 21202
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
1660 West Second Street, Suite 820
Cleveland OH 44113
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
312 Elm St, Suite 2500
Cincinnati OH 45202
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

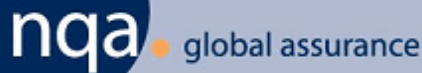
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Includes Facilities Located at:

WSP USA Inc.

Certificate Number 16855
300 Wyandotte Street, Suite 200
Kansas City MO 64105
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
250 Marquette Avenue
Minneapolis MN 55402
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
500 Griswold St. Guardian Bldg.
Suite 2600
Detroit MI 48226
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
888 South Figueroa Street, Floor 18
Los Angeles CA 90017
United States of America

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Includes Facilities Located at:

WSP USA Inc.

Certificate Number 16855
30 N. LaSalle St
Suite 4200
Chicago IL 60602
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
2 Miranova Pl., Suite 450
Columbus OH 43215
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
15231 Laguna Canyon Road
Suite 100
Irvine CA 92618
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
1001 4th Avenue
Suite 3100
Seattle WA 98154
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

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WSP USA Inc.

Certificate Number 16855
10876 South River Front Parkway, Suite 250
South Jordan UT 84095
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
Wells Fargo Plaza
401 B Street, Suite 1400
San Diego CA 92101
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
2440 Louisiana Blvd, N.E.
Albuquerque NM 87110
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
3348 Peachtree Rd, NE, Suite 300
Atlanta GA 30326
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

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Includes Facilities Located at:

WSP USA Inc.

Certificate Number 16855
1601 S Mopac Expressway
Suite 325
Austin TX 78746
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
40 La Riviere Drive
Suite 320
Buffalo NY 14202
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
1901 Harrison Street
Oakland CA 94612
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
500 Winding Brook Dr., 1st Floor
Glastonbury CT 06033
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

Certified Since: December 1, 2009

Valid Until: January 3, 2027

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Cycle Issued: January 4, 2024



Appendix to Certificate Number: 16855

Includes Facilities Located at:

WSP USA Inc.

Certificate Number 16855
13530 Dulles Technology Dr
Suite 300
Herndon VA 20171
United States of America

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WSP USA Inc.

Certificate Number 16855
American Savings Bank Tower
1001 Bishop St, Suite 2400
Honolulu HI 96812
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
6011 W. St. Joseph Highway, Suite 400
Lansing MI 48917
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
1792 Alysheba Way, Suite 230
Lexington KY 40509
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

Certified Since: December 1, 2009

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Appendix to Certificate Number: 16855

Includes Facilities Located at:

WSP USA Inc.

Certificate Number 16855
1300 SW Fifth Avenue, 31st Floor
Suite 3100
Portland OR 97201
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
100 Summer Street, Floor 13 and 14
Boston MA 02110
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
1100 Poydras St., Suite 1175
New Orleans LA 70163
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
1700 Market St Suite 1050
Philadelphia PA 19103
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

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Appendix to Certificate Number: 16855

Includes Facilities Located at:

WSP USA Inc.

Certificate Number 16855
11 Stanwix St., Suite 950
Pittsburgh PA 15222
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
862 E. Hospitality Lane
Suite 350
San Bernardino CA 92406
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
5411 Skycenter Drive, Suite 650
Tampa FL 33067
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
177 N. Church Avenue
Tucson AZ 85701
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

Certified Since: December 1, 2009

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Appendix to Certificate Number: 16855

Includes Facilities Located at:

WSP USA Inc.

Certificate Number 16855
277 Bendix Rd, Suite 300
Virginia Beach VA 23452
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
1250 23rd Street N.W.
Floor 3, Floor 4
Washington DC 20037
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
225 North Market Street, Suite 350
Wichita KS 67202
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
301 E. Pine St.
Suite 1020
Orlando FL 32801
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

Certified Since: December 1, 2009

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Reissued: June 19, 2025

Cycle Issued: January 4, 2024

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Appendix to Certificate Number: 16855

Includes Facilities Located at:

WSP USA Inc.

Certificate Number 16855
1001 Morehead Square Drive
Suite 610
Charlotte NC 28203
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
434 Fayetteville St
Suite 1500
Raleigh NC 27601
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
2000 Lenox Drive, 3rd Floor
Lawrenceville NJ 08648
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
71 Stevenson Street
San Francisco CA 94105
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

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Appendix to Certificate Number: 16855

Includes Facilities Located at:

WSP USA Inc.

Certificate Number 16855
216 Centerview Drive
Brentwood TN 37027
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

WSP USA Inc.

Certificate Number 16855
1000 Enterprise Way
Suite 190
Roseville CA 95678
United States of America

The provision of planning, design, program management, advisory services, operations and maintenance provided by WSP USA for projects within the transportation, PM/CM, energy, water, earth & environment, property & buildings, federal and advisory services business lines.

Certified Since: December 1, 2009

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Cycle Issued: January 4, 2024

Appendix B

Consultant Project Kick-Off Meeting Agenda Checklist

Consultant Project Kick-Off Meeting Agenda Checklist

A kick-off meeting with the Consultant's bridge design team shall be initiated by the LADOTD Bridge Design Task Manager once the project is awarded. The meeting agenda shall include, but not limited to, the following items:

- Introduce LADOTD Bridge Task Manager and the Consultant's Key Team Members (The Supervisor or Team Leader and Key Designers/Design Checkers/Reviewers)
- Discuss Consultant's Staffing Plan and Implementation of QA/QC Plan Document (The staffing plan should include names and responsibilities of the designers, detailers, checkers, reviewers, and the EOR.)
- Determine Schedules for Project Submittals
(Design Criteria, TS & L, 30%, 60%, 90%, 100% of Preliminary Plans and Final Plans, Final Calculations, etc.)
- Share Expectations and Consultant Rating Criteria (Consultant rating will be performed for all project submittals shown on the project submittal schedule.)
- Discuss Design Criteria
- Discuss Budget, Supplemental Requests, Invoices, and Importance of Avoiding Claims (Staff shown on invoices will be reviewed in accordance with the staffing plan.)

Appendix C

Project Activity Log Sheet

Project Activity Log Sheet

Project No.:

Project Name:

Bridge Task Manager:

Date	Project Activity	Comments

Appendix D

Consultant Submittal Review Checklist

Consultant Submittal Review Checklist

Items	Submittals												
	Design Criteria	TS&L	30% PP	60% PP	90% PP	100% PP	30% FP	60% FP	90% FP	100% FP	Final Calculation Book	Plan Revisions	Change Orders
Consultant Submittal QC/QA Certification			R	R	R	R	R	R	R	R	R	R	R
Design Criteria	C												
TS&L		C											
Bridge Index			D	D	D	D	D	D	C	S			
General Notes			D	D	D	D	D	D	C	S			
Summary of Estimated Quantities			D	D	C	C	D	D	C	S			
General Plans			D	D	C	C	C	C	C	S			
Typical Sections			D	D	C	C							
Superelevation Diagram				D	D	C	C	C	C	S			
Construction Phasing Details				D	D	C	C	C	C	S			
Traffic Controls Details				D	D	C	C	C	C	S			
Foundation/Pile Layout				D	D	C	C	C	C	S			
Pile Loads/Details					D	D	D	C	C	S			
Pile Data Tables							D	D	C	S			
Bent Details							D	D	C	S			
Fender Details							D	D	C	S			
Girder Details							D	D	C	S			
Span Details							D	D	C	S			
Joint Details								D	C	S			
Bearing Details								D	C	S			
Approach Slab								D	C	S			
Guardrail Details								D	C	S			
Bridge Barrier/Railing Details								D	C	S			
Bridge Drainage Details								D	C	S			
Detour Bridge Details								D	C	S			
Revetment Details								D	C	S			
Signing/Lighting Details								D	C	S			
Year Plate								D	C	S			
Rebar Support								D	C	S			
Misc. Details								D	C	S			
Project Specific Standard Plans and Special Details								D	C	S			
Electrical/Lighting Details								D	C	S			
Mechanical Details								D	C	S			
As-Built Plans								D	C	C			
Special Provisions/NS-Items							D	D	C	C			
Cost Estimate					D	D	D	D	C	C			
Final Calculations											S		
Revised Plans/Calculations												S	S

Legends:

"R" = The item is required and shall be included in the submittal.

"C" = The item shall be complete and shall be included in the submittal.

"D" = The item shall be in development and shall be included in the submittal.

"S" = The item is stamped by the EOR and shall be included in the submittal.

Appendix E

Bridge Design Criteria Checklist

Bridge Design Criteria Checklist

The project design criteria includes, but not limited to, the following sections:

- **Cover sheet**

The following information must be included on the cover sheet:

 - o LADOTD project number
 - o Project name
 - o Revision date
 - o The Project Manager'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:

 - o Bridge information (no. of bridges, bridge clear width, length, no. of lanes, lane width, shoulder width, etc.)
 - o Road information (roadway classifications, design speed, traffic data, etc.)
 - o Vertical datum
 - o Vertical and horizontal clearances
 - o 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 Γ_D , redundancy factor Γ_R , and operational importance factor Γ_I shall be listed in this section.
- **Design Loads**

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

All applicable limit states for this project shall be listed in this section.
- **Bridge Barrier**

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

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

- **Approach Slab**
Design criteria for approach slab shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Deck and Deck Drainage**
All design criteria for deck and deck drainage design shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Bearing**
All bearing types and design criteria for each bearing type shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Joint**
All joint types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Superstructure**
All superstructure types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Substructure**
All substructure types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Piles and Drilled Shafts**
All pile types, sizes, and structural design criteria shall be included in this section. Standard plans and special details should be listed if they are utilized.
- **Geotechnical Design**
All geotechnical design criteria shall be included in this section and the information shall be provided by the Geotechnical Engineer. Standard plans and special details should be listed if they are utilized.
- **Mechanical Design**
All mechanical design criteria shall be included in this section if applicable. Standard plans and special details should be listed if they are utilized.
- **Electrical/Lighting Design**
All electrical design criteria shall be included in this section if applicable. Standard plans and special details should be listed if they are utilized.
- **Bridge Load 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.

Appendix F

Bluebeam Studio Session QA/QC Review Coversheet



PD-US-F-Bluebeam Studio Session QA/QC Review Coversheet

The Quality Control (QC) and Quality Assurance (QA) Review is completed using Bluebeam Revu Studio per [Bluebeam Studio Session and Toolsets Training Guide](#). The following toolset is to be uploaded into Bluebeam prior to performing the review. *This form should be appended to the front of each Document being reviewed per the instructions in the Guide.*

Tool Set:


WSP QC Feb
2022.bpx

Document Reviewed/Submittal:

Project Name:

Project Number:

A review has been completed by the QA and QC Reviewer(s) as indicated below. The specific project document(s) stated above were reviewed based on reasonably prudent engineering practices, and requirements set forth by the Client.

QUALITY CONTROL REVIEW CERTIFICATION

Discipline (insert text)	Originator (insert Last Name, First Name)	Checker (insert stamp)	Backchecker (insert stamp)	Corrector (insert stamp)	Verifier (insert stamp)

- Note:
- Enter the Discipline and Originator name directly in the text boxes.
Tip: To change User Name to 'Last Name, First Name', in Bluebeam, go to Revu > Preferences > General > Options > User. Save, exit, and restart to apply changes.

• Each reviewer must apply their role-specific Bluebeam QC Tool Chest Stamp in the corresponding box

• Use Page 2 if additional disciplines or certification boxes are required. Add more pages as needed to accommodate further disciplines or certification sections.

QUALITY ASSURANCE REVIEW
CERTIFICATION (All Disciplines)

Appendix G

Certificate of Compliance

CERTIFICATE OF COMPLIANCE

TO: Hamed Babaizadeh, Ph.D., P.E., LEED AP BD+C
LADOTD Project Manager

DATE: Month XX, XXXX

RE: QUALITY ASSURANCE REVIEW

F.A.P. Nos.: H012008 and H012009
CONTRACT NAME: US 71 ICG RR: Spring St Rehab & Market St Replace
PARISH: CADD0
TASK DESCRIPTION: XXXXXXXXXXXXXXXXXXXX
SUBMITTED DOCUMENT(S): XXXXXXXXXXXXXXXXXXXX
CONSULTANT: WSP USA Inc.

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

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

SIGNED: _____ **Date:** _____
Jonathon Seddelmeyer, P.E.
Project Manager

SIGNED: _____ **Date:** _____
Mark Pearson, P.E.
Quality Assurance Reviewer

Appendix H

Final Plan and Calculation Book

QA/QC Certification

Final Plan and Calculation Book QA/QC Certification

Project No.:

Project Name / Description:

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 approved WSP Project Quality Control / Quality Assurance Plan and the LADOTD Bridge Design Section policy on QA/QC.

Bridge:						
Segment:						
Team Members	Name	Louisiana PE Registration No.	Responsible Plan Sheets	Responsible Special Provisions	Construction Cost Estimate	Signature
Designers						
Design Checkers						
Detailers						
Detail Checkers						
Reviewers						
Peer Reviewer						
EOR						

Appendix I

Final Calculation Book Checklist

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:

- o LADOTD project number
- o Project name
- o The title of "Final Calculation Book"
- o The EOR's seal with signature and date

- **Final Calculation Book Check List**

- **QA/QC Certifications**

- **Peer Review Resolution Agreement (if peer review is performed)**

- **Design Criteria**

- **Final Hydraulic Analysis Report from Hydraulic Engineer**

- **Final Geotechnical Analysis Report from Geotechnical Engineer**

- **Superstructure Design Calculations**

- **Substructure Design Calculations**

- **Quantity Calculations**

- **Special Provisions/NS-Items**

- **Construction Cost Estimate**

- **As-Designed Rating Report**

- **List of All Final Electronic Design Files and File Locations (ProjectWise directory name)**

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

- **A PDF File of the Calculation Book**

- **All Electronic Design Files**

- **A PDF File of the As-Designed Rating Report Only**

Appendix J

Bridge Load Rating Summary Sheet

PROJECT QUALITY CONTROL PLAN

US 71 ICG RR: Spring St Rehab & Market St Replace

LADOTD Contract No: 4400034051

Bridge Load Rating Summary Sheet

Bridge Data

District	Structure Number	Bridge Name
Parish	Recall Number	Inspection Date
Route	Year Built	Overall
Bridge Posting	Design Load	Deck
Bridge Type	Roadway Width	Super
Bridge Length	Plan Location	Sub
Standard Plan	Std Plan Yr Rev-	Culvert Channel

Bridge/Culvert Load Rating Summary

Dead Load	LRFR Evaluation Factors	Traffic
Wearing Surface Thickness (in)	Condition Factor, super (ϕ_c)	ADTT (one way)
Wearing Surface Type	Condition Factor, sub (ϕ_c)	
Non-Structural Attachments	System Factor, super (ϕ_s)	
Fill Thickness (in)	System Factor, sub (ϕ_s)	

Vehicle Type	GVW (kips)	Superstructure/Deck/Culvert				Substructure			
		Rating Factor	Posting Weight (tons)	Controlling Member	Controlling Load Effect	Rating Factor	Posting Weight (tons)	Controlling Member	Controlling Load Effect
HL-93 (INV)	N/A								
HL-93 (OPR)	N/A								
LADV-11(INV)	N/A								
LA Type 3	41.0		-				-		
LA Type 3S2	73.0		-				-		
Type 3-3	80.0		-				-		
LA Type 6	80.0		-				-		
LA Type 8	88.0		-				-		
SU4	54.0		-				-		
SU5	62.0		-				-		
SU6	69.5		-				-		
SU7	77.5		-				-		
Lane-Type I	N/A								
Lane Type II	N/A								
EV2	57.5		.*				.*		
EV3	86.0		.*				.*		

* Informational purposes only

Posting Analysis Summary

	PV-Single	PV-Comb
Superstructure		
Substructure		
Recommended Legal Posting Load	No Limit	
Recommended EV Posting Load	No Limit	
As-Design Rating	☐	

QC/QA

Rated By:

Checked By:

QA By:

Date Rated:

Design Project Number:

Rating Software:

NOTES

Appendix K

Bridge Load Rating Checklist

LOAD RATING REPORT CHECKLIST (LADOTD)

Page 1 of 2

Project No. _____ Bridge _____

Submittals:**An Electronic Version of the Load rating Report including any computer models used in analysis**

N/A*

Hard Copy (one) [for each bridge]	☐	☐	_____
PDF Copy (one) [for each bridge] On removable storage: CD, Flashdrive, Projectwise, large file transfer	☐	☐	_____
All bridge plans on separate CD (or flashdrive if too large) to be included with rating documents	☐	☐	_____
Rating Report prepared for each bridge (this maybe each structure number)	☐	☐	_____
One AASHTOWare BrR/BrD model for each bridge Bridge span numbers shall follow the inspection report (NBI Inventory)	☐	☐	_____

Rating Report:

Cover sheet	☐	☐	_____
Recall Number on Cover Sheet	☐	☐	_____
Stamped and Signed Bridge Load Rating Summary Sheet with Engineering Seal and signature	☐	☐	_____
Rater Initials	☐	☐	_____
Checker Initials	☐	☐	_____
Reviewer Initials	☐	☐	_____
List all assumptions	☐	☐	_____
List all material values	☐	☐	_____
Discussion of current condition of bridge and any assumptions based on that	☐	☐	_____
Critical rating values	☐	☐	_____
Rating Output of every rated member	☐	☐	_____
Influence line (if applicable, see refined methods below)	☐	☐	_____
Hand calculations, sample calculations	☐	☐	_____

see next page for additional items

LOAD RATING REPORT CHECKLIST (LADOTD) (continued)

Page 2 of 2

Project No. _____ Bridge _____

*Rating Report (cont):**To be incorporated into Rating Report:*

		N/A*
Structure Description	☐	☐
Vicinity Map	☐	☐
Bridge Layout Plans	☐	☐
Load Rating Inspection Reports	☐	☐
Material and Load Test Data	☐	☐
Supporting Calculations	☐	☐
Clear Statement of all assumptions made for calculations	☐	☐
Sketches to document section loss used in Analysis	☐	☐
Previous Inspection Reports	☐	☐
Testing Reports	☐	☐
Reference Articles	☐	☐
BrR/BrD Input Data File	☐	☐

For Refined Methods:

Live Load Distribution Factors for all rated members	☐	☐
Computer model files and associated documentation	☐	☐
Influence line/surface submittal for any member not rated by BrR/BrD	☐	☐

* For items marked N/A, include the reason for not including.

Engineer of Record: _____
Print_____
Signature

Company: _____

Appendix L

QA Information Package Checklist

QA Information Package Checklist

Project No.:

Project Name / Description:

QA information package checklist for design projects

_____	Calculation Book
_____	Plans
_____	Special Provisions
_____	Cost Estimate
_____	Certificate of Compliance
_____	Other Documents _____

QA information package checklist for load rating projects

_____	Scope of work required per contract
_____	Load rating report
_____	Electronic design files and influence line files
_____	Load Rating Checklist signed by the EOR

Appendix M

Bridge Design Section Records Retention Policy

Bridge Design Section Records Retention Policy

(Updated 1/27/2012)

Item No.	Record Title	In Office Retention Period (by Bridge Design Section)	DOTD Total Retention (By General Files)	Archiving Instruction	Responsible Party
001	Design Manuals/Guidance and Bridge Design Technical Memoranda	Life of the Agency	Life of the Agency	Archive electronically in Project-wise under Documents\ Reference Materials\ <u>Bridge Design Section Archive\ Design Manuals- Guidance</u>	Assistant Bridge Design Administrator responsible for design manuals
002	Bridge Design Standard Plans and Special Details	Life of the Agency	Life of the Agency	Archive electronically in Project-wise under Documents\ Standard Drawings <i>(instructions for archiving standards are posted on bridge design website under Standards/Revising or Creating Standards)</i>	Bridge Design Standards Manager
003	Final Plans, Revisions, and Change Orders (CAD files)	Life of the Agency	Life of the Agency	Archive electronically in Project-wise under <u>Project folder\ Bridge-Facilities\ Discipline\ Plans (Subfolders for each revision and change order should be created under Plans)</u>	Bridge Task Managers
004	Final Plans, Revisions, and Change Orders (Original signed hard copies)	Life of the Agency	Life of the Agency	Transmit to General Files and archive electronically in DOTD Network Plan Room by General Files	Bridge Task Managers
005	Final Plans, Revisions, and Change Orders (Digital signed copies in pdf format, to be implemented)	Life of the Agency	Life of the Agency	Archive electronically in Project-wise under <u>Project folder\ Published Submittals\ Project Drawings\ Final Plans</u>	Bridge Task Managers
006	Shop Drawings and Erection Drawings (Final Distribution Copy in pdf format)	Life of the Agency	Life of the Agency	Archive electronically in Project-wise under <u>Project folder\ Published Submittals\ Project Drawings\ Construction Drawings\ Shop Drawings</u> <i>(See BDTM.2.6 for instructions)</i>	Bridge Task Managers
007	Shop Drawings and Erection Drawings (Final Control Set hard copies)	Life of the Agency	Life of the Agency	Transmit to General Files and archive electronically in DOTD Network Plan Room by General Files <i>(See BDTM.2.6 for instructions)</i>	Bridge Task Managers

PROJECT QUALITY CONTROL PLAN

US 71 ICG RR: Spring St Rehab & Market St Replace

LADOTD Contract No: 4400034051

Item No.	Record Title	In Office Retention Period (by Bridge Design Section)	DOTD Total Retention (By General Files)	Archiving Instruction	Responsible Party
008	Final Design Calculation Files for In-House and Consultant Projects (Stamped calculation book in pdf format, stamped final reports, and final electronic design models)	Life of the Agency	Life of the Agency	Archive electronically in Project-wise under <u>Project Folder\ Published Submittals\Project Documents\Final Design Calculations & Reports</u>	Bridge Task Managers
009	Bridge Rating Reports	Life of the Agency	Life of the Agency	Archive electronically in Project-wise under <u>Documents\ Reference Materials\Bridge Design Section Archive\Bridge Rating Reports</u>	Bridge Rating Engineer
010	Truck Permits	Life of the Agency	Life of the Agency	Archive electronically in Project-wise under <u>Documents\ Reference Materials\Bridge Design Section Archive\Truck Permits</u>	Bridge Rating Engineer
011	Chief Engineer Orders (Bridge Posting)	Life of the Agency	Life of the Agency	Archive electronically in Project-wise under <u>Documents\ Reference Materials\Bridge Design Section Archive\Chief Engineer Orders (Bridge Posting)</u>	Bridge Rating Engineer
012	Project Related Correspondences (Hard Copies)	Final project acceptance date + 3 years	Life of the Agency	Archive electronically in Content Manager under <u>Design Projects</u> . At the end of in office retention period, the hard copies shall be boxed, marked with project number and record item No. with description, and then transmitted to General Files for their handling.	Project Managers/Bridge Task Managers
013	Project Related Correspondences (Emails) <i>(Note: If the email is considered as important project correspondence and needs to be kept for the life of agency, then the email should be printed and treated as item 012.</i>	Final project acceptance date + 3 years	Final project acceptance date + 3 years	Archive electronically in Project-wise under <u>Project Folder\ Published Submittals\Project Documents\Project Correspondence Emails</u>	Project Managers/Bridge Task Managers
014	Administrative or Other Types of Correspondences	Life of the Agency	Life of the Agency	Archive electronically in Content Manager under <u>Bridge Design Subject Files</u>	Everyone

Appendix N

LADOTD Pre-Approved Software List

LADOTD Pre-Approved Software List

Developer	Website	Software Name	Production Version
AASHTO, Inc.	https://www.aashtoware.org/	AASHTOWare Bridge Design	7.6.1
AASHTO, Inc.	https://www.aashtoware.org/	AASHTOWare Bridge Rating	7.6.1
AASHTO, Inc.	https://www.aashtoware.org/	AASHTOWare PS Design Tool	7.6.1
AASHTO, Inc.	https://www.aashtoware.org/	AASHTOWare Steel Design Tool	7.6.1
Acuity Brands Lighting, Inc.	https://www.visual-3d.com/	Visual	2020 R2
AutoDesk	https://www.autodesk.com/	AutoCAD LT	AutoCAD LT 2024
Bentley Systems, Inc.	https://softwaredownloads.bentley.com/en/	LEAP Bridge Concrete	22.0.4.24
Bentley Systems, Inc.	https://softwaredownloads.bentley.com/en/	LEAP Bridge Steel	22.0.4.24
Bentley Systems, Inc.	https://softwaredownloads.bentley.com/en/	Microstation Connect Edition	10.16.00.080
Bentley Systems, Inc.	https://softwaredownloads.bentley.com/en/	Microstation v8i	08.11.09.883
Bentley Systems, Inc.	https://softwaredownloads.bentley.com/en/	Open Roads Designer	10.10.13
Bentley Systems, Inc.	https://softwaredownloads.bentley.com/en/	OpenBridge Designer	10.10.1.73
Bentley Systems, Inc.	https://softwaredownloads.bentley.com/en/	OpenBridge Modeler	10.12.183
Bentley Systems, Inc.	https://softwaredownloads.bentley.com/en/	RM Bridge	11.16.031
Bentley Systems, Inc.	https://softwaredownloads.bentley.com/en/	STAAD	22.12.00.142
Bentley Systems, Inc.	https://softwaredownloads.bentley.com/en/	STAAD Beava	22.12.00.142
Bentley Systems, Inc.	https://softwaredownloads.bentley.com/en/	STAAD Section Wizard	22.12.00.142
Bridge Software Institute	http://bsi-web.ce.uci.edu	FB-Pier	v5.8.31
Computers and Structures, Inc.	https://www.csiamerica.com/	CSiBridge	CSiBridge 2016 v1820
Computers and Structures, Inc.	https://www.csiamerica.com/	CSiCOL	CSiCol 9 v901
Computers and Structures, Inc.	https://www.csiamerica.com/	SAP 2000	SAP 2000 v1820
CSI, Ltd.	https://www.csi-europe.com/	DDM	DDM 2023
Elite Software	https://www.elitesoft.com/	CHVAC 8	CHVAC 8
Ensoft, Inc.	https://www.ensoftinc.com/	L-Pile	2022-09
Finite Element Analysis, Ltd.	https://www.lusas.com/	LUSAS	LUSAS 19.1-3
Informer Technologies, Inc.	https://powergear.software.informer.com/	Power Gear	4.0.64
LARSA, Inc.	https://www.larsa4d.com/	LARSA 4D Bridge Plus	LARSA 4D_8.00.9016
Lighting Analysts, Inc.	https://www.lightinganalysts.com/catalog/login.php	AGI32	AGI32-20.11.0.12
MIDASoft	https://www.midasoft.com/	Midas Civil	Civil 2023(v1.1)
Operating Technology, Inc.	https://www.etap.com/	ETAP	ETAP 2023 (22.5.0)
PTC, Inc.	https://www.ptc.com/en/support	MathCAD Prime	Prime 9.0
Smart Bridge Technology	http://www.smartbridgetech.com/	Smart Bridge Suites	4.0
SolidWorks Corporation	https://www.solidworks.com/	SOLIDWORKS	2023 SP02.1
Structure Point, LLC	https://structurepoint.org/	spColumn	spColumn 10.00
University of Maryland	https://best.umd.edu/sabre/	Sabre	6.2