

DOTD FORM: 24-102

(Revised June 1, 2021)


PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

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

| | |
|--|--|
| 1. Contract title as shown in the advertisement | IDIQ FOR BRIDGE INSPECTION SERVICES STATEWIDE |
| 2. Contract number(s) as shown in the advertisement | CONTRACT NOS. 4400023510, 4400023511, AND 4400023512 |
| 3. State Project Number(s), if shown in the advertisement | N/A |
| 4. Prime consultant name (as registered with the Louisiana Secretary of State where such registration is required by law) | 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 | WSP USA Inc. 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) | WSP USA Inc. 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, Vice President Senior Managing Director, 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, Vice President Senior Managing Director, 225-218-3584, Max.Nassar@wsp.com |
| 10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, | |

| | | | | | |
|---|---|-----------------|--------------------|----------------------------------|--|
| <p>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.</p> | <p>Signature (shall be the same person as #9):</p>  <p>Date: February 24, 2022</p> | | | | |
| <p>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.</p> | <table> <tr> <td><u>Firm(s):</u></td> <td><u>Firm(s)' %:</u></td> </tr> <tr> <td colspan="2">No DBE goal has been set.</td> </tr> </table> | <u>Firm(s):</u> | <u>Firm(s)' %:</u> | No DBE goal has been set. | |
| <u>Firm(s):</u> | <u>Firm(s)' %:</u> | | | | |
| No DBE goal has been set. | | | | | |

12. Past Performance Evaluation Discipline Table:

Sub-consultants are allowed to be used for this proposal. Fill in the table by identifying only those evaluation disciplines consistent with the approach and methodology proposed in Section 19 of the DOTD Form 24-102*, the name of each firm that is part of the proposal, and the percentage of work in each past performance evaluation discipline to be performed by that firm. The percentage estimated for each evaluation discipline is for evaluation purposes only and will not control the actual performance or payment of the work. The percentages for the prime and sub-consultants must total 100% for each past performance evaluation discipline, as well as the overall total percent of the contract. (Add rows as needed)

| Evaluation Discipline(s) | % of Overall Contract | WSP USA Inc. (Prime) | CONSOR Engineers, LLC | Linfield, Hunter & Junius, Inc. | Terracon | ECM Consultants, Inc. | Stanley Consultants, Inc. | KTA-TATOR, INC. | ELOS Environmental, LLC |
|--|-----------------------|----------------------|-----------------------|---------------------------------|----------|-----------------------|---------------------------|-----------------|-------------------------|
| Bridge | 90% | 55% | 25% | | | 15% | | 5% | |
| Road | 1% | 100% | | | | | | | |
| Geotech | 1% | | | | 100% | | | | |
| Survey | 1% | | | 100% | | | | | |
| Environmental | 1% | | | | | | | | 100% |
| Traffic | 6% | | | | | | 100% | | |
| Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant. | | | | | | | | | |
| Percent of Contract | 100% | 50.5% | 22.5% | 1% | 1% | 13.5% | 6% | 4.5% | 1% |

The past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other. The crosswalk from the old categories to the new categories can be found at the link below:

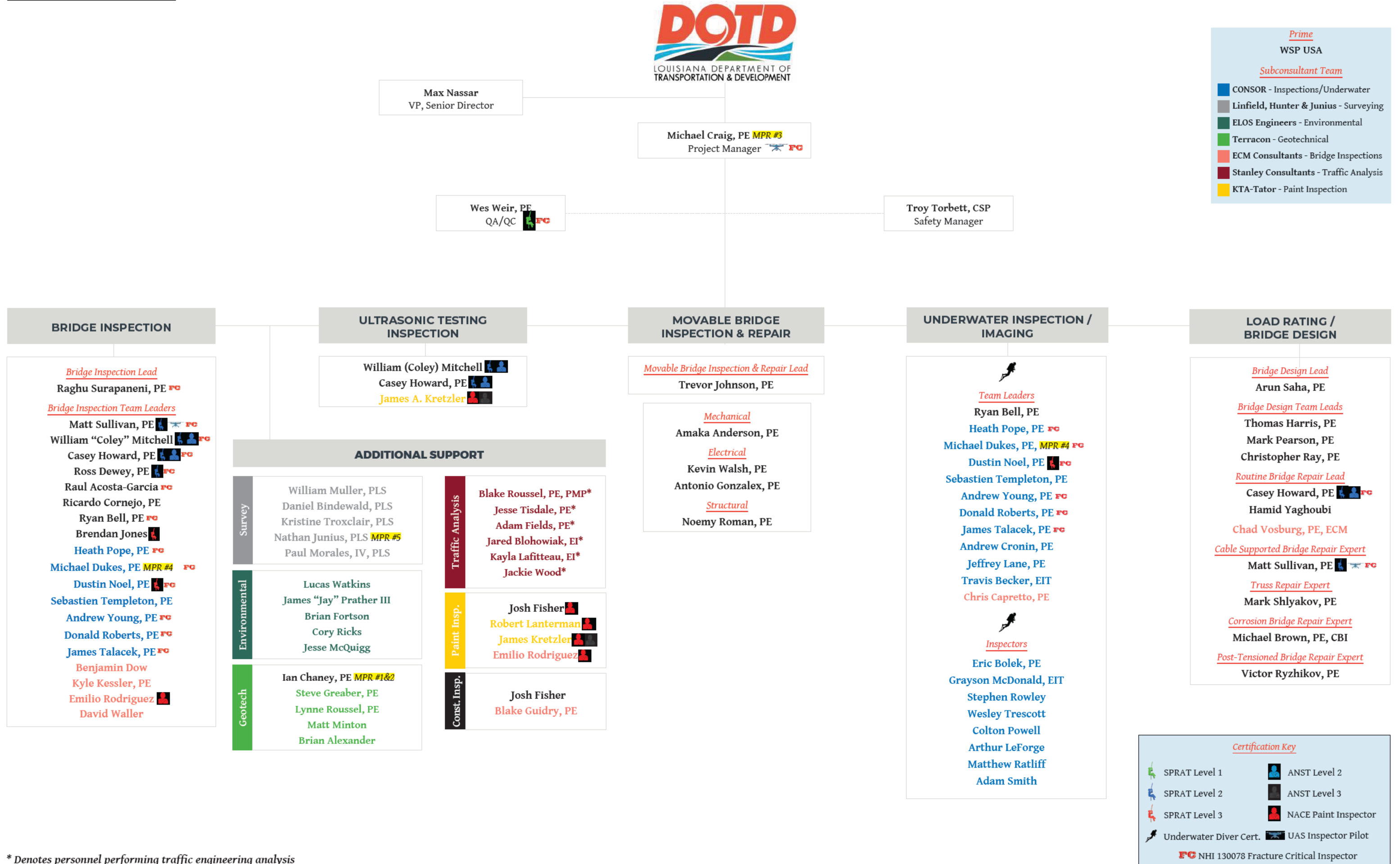
http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/General%20Information/CPPR%20Crosswalk%20to%20New%20Evaluation%20Disciplines.pdf. (same link as in the advertisement)

13. Firm Size:

| Firm name | DOTD Job Classification | Number of personnel committed to this contract | Total number of personnel available in this DOTD Job Classification (if needed) |
|--|--------------------------|--|---|
| WSP USA Inc. | Principal | 1 | 25 |
| | Inspector Bridge | 10 | 80 |
| | Engineer | 8 | 32 |
| | Supervisor - Engineering | 4 | 12 |
| | Engineering-Aide | 8 | 32 |
| | CADD Drafter | 1 | 4 |
| | Technician | 2 | 8 |
| CONSOR Engineers, LLC | Other (Engineer-Diver) | 6 | 14 |
| | Inspector – Bridge | 15 | 60 |
| Linfield, Hunter & Junius, Inc. | Principal | 1 | 1 |
| | Surveyor | 1 | 1 |
| | Party Chief | 2 | 2 |
| | Rodman | 2 | 2 |
| | CADD Technician | 2 | 2 |
| | Clerical | 2 | 2 |
| ELOS Environmental, LLC | Biologist/Wetlands | 2 | 10 |
| | Environmental Pro | 3 | 11 |
| | Environmental Manager | 1 | 2 |
| | GIS Analyst | 2 | 6 |
| ECM Consultants, Inc. | Supervisor Engineer | 3 | 5 |
| | Engineer | 2 | 4 |
| | Inspector - Bridge | 3 | 3 |
| Terracon | Principal | 1 | 2 |
| | Supervisor-ENG | 1 | 4 |
| | Engineer | 1 | 3 |
| | Engineer Intern | 1 | 2 |

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| | Supervisor-Other (<i>Drilling and Laboratory Manager</i>) | 2 | 3 |
| | Technician (Lab and Field) | 4 | 6 |
| | Driller | 2 | 5 |
| Stanley Consultants, Inc. | Principal | 1 | 1 |
| | Engineer Supervisor | 2 | 4 |
| | Engineer | 1 | 1 |
| | Engineer Intern | 2 | 2 |
| | Senior Technician | 1 | 1 |
| KTA-Tator, Inc. | Supervisor/Inspector | 2 | 12 |

14. Organizational Chart



* Denotes personnel performing traffic engineering analysis

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 / certification & number | State of license | License / certification expiration date |
|--|---|------------------------------------|---|---------------------|--|
| 1 | Ian Chaney, PE | WSP USA Inc. | Professional Engineer, Civil Engineering | LA | 0042288 / 9-30-2022 |
| 2 | Ian Chaney, PE | WSP USA Inc. | Professional Engineer, Civil Engineering | LA | 0042288 / 9-30-2022 |
| 3 | Michael Craig, PE | WSP USA Inc. | Professional Engineer (Bridge Design/Structural Inspection) | LA | 0041964 / 3-31-2024 |
| 4 | Michael Dukes, PE | CONSOR Engineers, LLC | Professional Engineer, 14 years of Underwater Imaging/Diving | LA | 0040986 / 3-31-2023 |
| 5 | Nathan J. Junius, P.E., P.L.S. | Linfield, Hunter & Junius, Inc. | Professional Land Surveyor | LA | PLS.0004958 / 09-30-2023 |

(Add rows as needed)

16. Staff Experience:

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|---|---|----------------------|---|
| Firm employed by: WSP USA Inc. | | | |
| Name | Max Nassar | | Years of relevant experience with this employer 4 |
| Title | Vice President / Senior Director | | Years of relevant experience with other employer(s) 42 |
| Degree(s) / Years / Specialization | | BA, 1976, Psychology | |
| Active registration number / state / expiration date | | N/A | |
| Year registered | N/A | Discipline | N/A |
| Contract role(s) / brief description of responsibilities | | Principal-in-Charge | |
| Experience dates(mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| 4/20 – present | LADOTD, Contract For Innovative Procurement and Alternative Delivery Support Services, LA: <i>Project Principal</i> , the project includes provision of engineering, financial, management and administrative advice and services to assist with Innovative Project Delivery Methods in connection with administering the procurement process of Design Build, Construction Management at Risk, and/or Public Private Partnerships (P3) projects. The current effort includes leading the procurement of the Calcasieu Bridge in Lake Charles, Louisiana. To be included in the effort is a Level 2 Toll Study. The current Calcasieu Bridge is one of the most critical projects in Louisiana’s Transportation System and has been identified as the most detrimental to economic development. | | |
| 10/19 – present | LADOTD Level 1 Toll Feasibility Study for a new Mississippi River Bridge between LA 1 and LA 30 (Project I.D. No. Number 101, a Priority B Megaproject in the Louisiana Statewide Transportation Plan): <i>Project Principal</i> , the project includes enhancing the Capital Region Planning Commission (CRPC) Travel Demand Model (TDM to include a toll diversion model in order to be able to use the model to evaluate demand for the 3 rd Crossing alternatives under different tolling scenarios. Additionally, WSP will generate estimates of annualized gross toll revenue based on the demand as well as prepare a conceptual plan to implement tolling including public outreach, economic impacts, toll infrastructures, institutional requirements, revenue risk, etc. | | |
| 5/2019 – Present | Board of Commissioners, Port of New Orleans, New Orleans, LA: Seabrook Bridge Span Replacement Project, New Orleans, LA: <i>Project Principal</i> for this project which included structural design, mechanical design, coordination of the preparation of plans and specifications, construction administration and resident inspection, and quality assurance and the assurance of timely delivery to the client. The Seabrook Bridge is a Strauss-Trunnion Bascule Bridge over the Inner Harbor Canal in New Orleans. | | |

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| 5/2019 – Present | Board of Commissioners, Port of New Orleans, New Orleans, LA: Almonaster Bridge Span Replacement Project, New Orleans, LA: <i>Project Principal</i> for this project which included structural design, mechanical design, coordination of the preparation of plans and specifications, construction administration and resident inspection, and quality assurance and the assurance of timely delivery to the client. The Seabrook Bridge is a Strauss-Trunnion Bascule Bridge over the Inner Harbor Canal in New Orleans. |
| 6/2019 – 5/2020 | NCDOT Design-Build Bridge Replacement, Structure #1: I-485 over Westinghouse Blvd., Mecklenburg County, NC: <i>Principal in Charge</i> for local bridge staff designing this bridge replacement and widening. Staff assignments include modeling, analysis, and design of the prestressed bridge along with preparing bridge final design plans, as well as quality control of other prepared plans. |
| 6/2017 – Present | <p>LADOTD, IDIQ Contract For Electrical And Mechanical Engineering Services – Project Principal for this Task Order based engineering services contract which supports efforts on mechanical and electrical services related to roadways, pump stations and other mechanical and electrical needs.</p> <ul style="list-style-type: none"> ✓ Task Order 1: State Project No. H.010439: Boyd Street & 21ST Street Pump Station Improvements ✓ Task Order 2: State Project No. H.010439.5: Boyd Street & 21St St Pumping Station Improvements I-110 ✓ Task Order 3: State Project No. H.010565 Acadian St. Pumping Station Improvements ✓ Task Order 4: State Project No. H.010565.5 Acadian Street Pumping Station ✓ Task Order 5: State Project No. H.972249.1 Generator Site Investigation and Load Study for Airline Drive Pump Station and LADOTD Maintenance Facility and Construction Docs for Airline Drive Pump Station ✓ Task Order 6: State Project No. H.010253: Bluebonnet Blvd Pump Station Improvements LA 1248 ✓ Task Order 7: State Project No. H.010251: Chippewa St Pumping Station Improvements US61/190 |
| 2/2021-Present | Pontchartrain Levee District (PLD), St. Charles Parish, LA: <i>Project Principal</i> for assessment of the Cross Bayou Pumping Station, a flood control pumping station with influent from the canal along the Airline Highway and effluent to Lake Pontchartrain via the Cross Bayou canal. Equipped with five main diesel and one electrical low flow submersible pumps, the pumping station can deliver a total capacity of over a half million gallons per minute; it is a key pumping facility in the St. Charles Parish flood control infrastructure. The assessment involved pump and pump drives, the on-site fuel storage and delivery system, various mechanical and electrical systems and included an opinion of probable construction costs to rehabilitate the station to a state of good repair. |

16. Staff Experience:

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| Firm employed by: WSP USA Inc. | | MPR 1 & 2 | |
| Name | Ian Chaney, PE | Years of relevant experience with this employer | 20 |
| Title | Supervising Engineer | Years of relevant experience with other employer(s) | 0 |
| Degree(s) / Years / Specialization | | MS / 2002 / Geotechnical Engineer BS / 2001 / Mining Engineering | |
| Active registration number / state / expiration date | | PE LA (0042288) – 09/30/2022 | |
| Year registered | 2018 | Discipline | Civil Engineer |
| Contract role(s) / brief description of responsibilities | | Principal-in-Charge <i>Meets all requirements for MPR1</i> | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| 2011 - ongoing | VDOT, City of Chesapeake 2011 - Present Civil Engineering Open-End Annual Contract, Chesapeake, VA: as pursuit manager and design manager for the pursuit, Ian was responsible for preliminary designs of both an immersed tunnel option and a bored tunnel option, including manmade island extensions, ground improvement, and protection of the existing tunnels and islands, built in the Atlantic Ocean on a subsurface consisting of up to 80 feet of soft compressible clays. WSP provided a variety of general civil engineering services under an annual contract for the City of Chesapeake. Project elements included stormwater management and drainage, water quality improvements, utility design and coordination, site development, traffic analysis, roadway design, highway lighting, and landscape design. | | |
| 01/17 - present | LACPRA Mid-Barataria Sediment Diversion Project – Plaquemines Parish, LA: As part of this CMAR project to design an intake structure and 2-mile long conveyance channel from the Mississippi River, Ian is the Lead designer and WSP Project Manager providing designs for floating U-structures and immersed tube tunnels, over which a RR bridge and the LA 23 bridge will be constructed. Ian is responsible for the design of the U-structure to support both the highway bridge and the RR bridge. Conceptual plans have been developed for both standard through girder designs and for a flood-proof design that could potentially lower the profile and reduce the overall bridge length by several thousand feet. At completion, the project will accommodate a diverted flow of more than 75,000 cfs of sediment-laden water that will ultimately be deposited and dispersed into the Barataria Bay, enabling marsh creating for future decades. | | |
| 2015 | District of Columbia Water and Sewer Authority, First Street Tunnel Design, Washington, DC: as geotechnical engineer, Ian was responsible for the design of all near surface structures and their support of excavations, the development of Instrumentation and monitoring plans, as well as preparing construction impact assessment reports, which evaluated the existing structures and facilities because of tunneling, construction and excavation. WSP, in joint venture, provided architectural and engineering, and related services for the District of Columbia Water and Sewer Authority’s First Street Tunnel design-build project, a major component of their Clean Rivers Project. The tunnel was designed to temporarily store excess storm water and mitigate surface flooding and sewer backups in the district's Bloomingdale and LaDroit Park neighborhoods. | | |

16. Staff Experience:

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| Firm employed by: WSP USA Inc. | | | |
| Name | Wesley Weir, PE | | Years of experience with this firm/employer 3 |
| Title | Senior Project Manager | | Years of experience with other firm(s)/employer(s) 29 |
| Degree(s) / Years / Specialization | | BS / 1989 / Civil Engineering | |
| Active registration number / state / expiration date | | PE LA (0035035) – 03/31/2022 | |
| Year registered | 1997 | Discipline | Civil Engineering |
| Contract role(s) / brief description of responsibilities | | QA/QC <i>Relevant Training: Relevant Training: FHWA Safety Inspection of In-Service Bridges, 1995, 2016 (NHI 130055); FHWA Fracture Critical Inspection Techniques for Steel Bridge, 2009 (NHI 130078) SPRAT Level II Rope Access Technician, 2021; FHWA Ultrasonic Level II; FHWA Tunnel Safety Inspection, 2017 (NHI 130110); Confined Space Entry Training, 2017; Bridge Inspection Refresher Training, 2019 (PennDOT/NHI 130053); FHWA Introduction to Element Level Bridge Inspection, 2004; Aerial Training, 2019; American Red Cross Adult First Aid/CPR/AED; OSHA-20.</i> | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. | | |
| 03/19-Ongoing | City of Cleveland, Rehabilitation of Center Street Swing Bridge, Cleveland, Ohio. Project Manager and Engineer of Record to rehabilitate the Center Street Swing Bridge which is a steel, through Pratt-like truss bobtail swing bridge originally built in 1901, and is owned and operated by the City of Cleveland. The swing span is 245’ long, that carries a 24-foot roadway width and two 5’-2” wide sidewalks over the Cuyahoga River in the City of Cleveland, Ohio. The \$8M construction budget for this rehabilitation is to provide a detailed inspection and evaluation of the structural, mechanical, and electrical components and to replace the existing open steel grid deck, replace steel stringers, rehabilitate existing floorbeams, painting of the superstructure, replacement of the MCC, and minor maintenance on mechanical components. | | |
| 07/09-04/12 | City of Cleveland, Design and Inspection Services for 3 Moveable Bridges, Cleveland, Ohio. Project Manager and Engineer of Record to assess the integrity and reliability of the operating systems of three movable bridges (Willow Avenue Lift Bridge, Center Street Swing Bridge and Carter Road Lift Bridge). This work includes providing a detailed inspection and evaluation of the structural, mechanical, and electrical components and recommendations as required to maintain and / or improve the operable and structural conditions of these structures and to develop plans, specifications and estimate for rehabilitation construction. | | |

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| 09/08-05/14 | <p>City of Cleveland, Columbus Road Lift Bridge Rehabilitation, Cleveland, Ohio. Project Manager and Engineer of Record for the preliminary engineering study (PES), rehabilitation and replacement design of the lift span of the Columbus Road Lift Bridge over the Cuyahoga River located in Cleveland, Ohio. Based on the preliminary engineering study, the Columbus Road Lift Bridge underwent a \$32M comprehensive rehabilitation with replacement of the lift span and all mechanical and electrical components, along with rehabilitation of the towers, piers, and abutments. As the Designer of Record, Wes provided construction services which included shop drawing review for all structural components on the bridge, submittal reviews for mechanical and electrical systems and overall construction documentation reviews.</p> |
| 06/18-Ongoing | <p>TxDOT, Texas Fracture-critical Bridge Inspection, Statewide Texas: Team Leader and Assistant Project Manager overseeing the staff that performed the inspections of over 900 fracture-critical members, 150 truss spans, 190 two-girder spans, and more than 300 fracture-critical bridges throughout the state of Texas. More than 70 fracture-critical members have required rope access, including the inspection of the Margaret Hunt Hill Bridge (2017) and I-35 Brazos River Bridges (2017). The Margaret Hunt Hill Bridge consists of a 1,197-ft cable-supported main span unit with a 400-ft-tall fracture-critical steel arch pylon supporting the stays. Rope access was used to gain the proper hands-on access required, and non-destructive testing was performed at problematic detail and crack locations. In addition to managing the staff of 6 Team Leaders performing these inspections</p> |
| 2015-2018 | <p>NAVFAC, Camp Darby Rail and Swing Bridge Charrette & Final Design, Livorno, Italy. Task Manager and Engineer of Record for the swing bridge and fixed bridge planning charrette to validate a feasibility study and cost estimate for construction of a munitions railhead at Camp Darby in Livorno, Italy. The charrette findings necessitated significant railhead and movable bridge structure preliminary redesign to address changed conditions and constraints observed during field verification. Key stakeholders were consulted during the charrette, including representatives from the Department of Defense, Italian government, local officials, Italian State Railroad, and the Canale dei Navicelli. A project description report and 1391 cost estimate was developed for programming purposes and submission to Congress for funding approval. Task Manager for the final design of a bobtail type steel through truss swing bridge that included steel stringers and floorbeams. The structure required spanning over the Navicelli Canal, with the main span of approximately 120-ft. The electro-mechanical machinery system was provided to support the swing bridge during operation, rotate the swing span, stabilize the swing span under rail traffic and in the stowed position, and center and align the span.</p> |
| 6/16-Ongoing | <p>GDOT, Engineering Services for Cable-Stayed Structures, Georgia: QA Manager. This task-order basis contract has included a special member inspection of the Sidney Lanier Bridge (2016) to evaluate exposed strands with various degrees of corrosion present, in-depth NBI and emergency post-hurricane inspection of the Talmadge Memorial Bridge (2017 and 2020) and the rehabilitation of the dampening system for the cable stays, and two ongoing rehabilitation design contracts for the Sidney Lanier Bridge and in-depth inspection (2021). The first rehabilitation project for the Sidney Lanier Bridge primarily addressed deficiencies associated with excessive cable vibration, including repairs to cable-stays with breached protective sheathing and corroded strands. The second rehabilitation project includes the installation of external dampers at all 176 stays. In addition to being the QA manager for this project Wes Lead the effort for the production of the Inspection and Maintenance Manuals for the Sidney Lanier and the Talmadge Cable Stay Bridges.</p> |

16. Staff Experience:

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| Firm employed by: WSP USA Inc. | | | |
| Name | Troy Torbett | | Years of experience with this firm/employer 11 |
| Title | Manager, HSE | | Years of experience with other firm(s)/employer(s) 23 |
| Degree(s) / Years / Specialization | | BS / 1988 / Industrial Technology/Safety Engineering | |
| Active registration number / state / expiration date | | Certified Safety Professional / 2003 / (17539) | |
| Year registered | 2003 | Discipline | Safety |
| Contract role(s) / brief description of responsibilities | | Safety Manager <i>Relevant Training: OSHA Authorized Construction Trainer</i> | |
| Experience dates (mm/yy–mm/yy) | Troy Torbett has developed and implemented procedures that effectively control accident and health exposures and minimize citations from the Occupational Safety and Health Administration, and other federal, state and local regulatory agencies. He has more than 20 years of experience establishing and implementing environmental safety and health programs that reduce the frequency and severity of accidental loss; protect human, financial and physical assets; and create safety cultures through safety training and risk assessments. | | |
| 2001 - present | WSP Safety Manager, Herndon, VA: Troy was assigned as the safety manager for the WSP USA east region providing safety consultation services to WSP and its operating companies employees. Responsibilities included: Reviewing project safety plans and continually improve the project safety plan process to ensure that all safety concerns of project site conditions and activities are assessed. Create monthly safety briefings. Maintain the WSP Occupational Safety and Health Management System programs and policies. Conduct project site safety inspections. Past inspections included bridge renovation projects, roadway and bridge construction projects, airport runway construction, and a rail yard expansion. Conduct safety training including the Bridge Inspection Safety Training, the Occupational Safety and Health Administration 10-Hour safety training, and the PM Café on hazard analysis and project safety plans at many WSP USA office locations. | | |
| 1989 - 2001 | American Semiconductor Manufacturing Company, Annapolis Junction, MD: As an operating contractor for the National Security Agency, Troy served as a safety engineer responsible for environmental safety and health (ES&H) activities during construction, equipment installation and calibration and operations of a sub-micron semiconductor manufacturing facility. He established and implemented an ES&H program for the facility and personnel in accordance with the Occupational Safety and Health Administration, the Resource Conservation and Recovery Act, National Fire Protection Association, American National Standards Institute, Compressed Gas Association, uniform building codes, uniform fire codes, company standard operating procedures, and other applicable ES&H codes, regulations, and standards. The facility ES&H program included an industrial safety program, fire protection program, industrial hygiene program, and a hazardous materials management program. Additional responsibilities were to: Prepare and maintain workers' compensation claims. Develop a laser safety program, radiation safety program, safety standard operating procedures, a budget plan for safety, and safety training for facility personnel. | | |

16. Staff Experience:

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| Firm employed by: WSP USA Inc. | | | MPR 3 |
| Name | Michael Craig, PE | Years of experience with this firm/employer | 11 |
| Title | Southeast Bridge Inspection Dept. Manager | Years of experience with other firm(s)/employer(s) | 12 |
| Degree(s) / Years / Specialization | BS / 1997 / Civil Engineering; MS / 1999 / Structural Engineering – Bridge Inspection, Repair and Design | | |
| Active registration number / state / expiration date | PE LA (0041964) / 3-31-2024 | | |
| Year registered | 2008 | Discipline | Civil Engineering |
| Contract role(s) / brief description of responsibilities | <p>Project Manager – Meets all requirements for MPR3 Provides oversight of all aspects of the project including inspection, testing, repair plans and coordination.</p> <p>Relevant Training: <i>Safety Inspection of In-Service Bridges, 2001 (NHI-130055); Safety Inspect of Fracture-critical Inspection Techniques for Steel Bridges, 2015 (NHI-130078); Bridge Inspection Refresher Training, 2018 (NHI-130053); Railroad Roadway Worker Protection 2012, 2014, 2016; Bridge Maintenance Training, 2013 (NHI-134029); Confined Space, 2009; Bridge Inspection Nondestructive Evaluation Seminar (BINS), 2008 (NHI-130099A); Bridge Coatings Level 1, 2012; FHWA Inspection and Maintenance of Ancillary Highway Structures, 2016 (NHI 130087); Aerial Training, 2017; OSHA 10-hour Hazard Recognition Training for the Construction Industry, 2017; Licensed Drone Pilot, 2021</i></p> | | |
| Experience dates (mm/yy–mm/yy) | Mr. Craig has over 23 years of experience in structural engineering with a focus on bridge inspection, load rating, bridge repairs and asset management services. Michael has inspected over 2,000 bridges across the southeast, including many complex truss, and cable-stayed structures. Michael has also overseen the repairs of several hundred bridges. The repairs have ranged from complex repairs on the dampening systems of cable-stayed bridges to spall repairs on culverts. | | |
| 6/16-Ongoing | <p>GDOT, Engineering Services for Cable-Stayed Structures, Georgia: Project Manager. This task-order basis contract has included a special member inspection of the Sidney Lanier Bridge (2016) to evaluate exposed strands with various degrees of corrosion present, in-depth NBI and emergency post-hurricane inspection of the Talmadge Memorial Bridge (2017 and 2020) and the rehabilitation of the dampening system for the cable stays, and two rehabilitation design contracts for the Sidney Lanier Bridge and in-depth inspection (2021). The first rehabilitation project for the Sidney Lanier Bridge primarily addressed deficiencies associated with excessive cable vibration, including repairs to cable-stays with breached protective sheathing and corroded strands. The second rehabilitation project included the installation of external dampers at all 176 stays.</p> | | |
| 06/17-01/18 | <p>Minnesota DOT, St. Croix Bridge Inspection, Minnesota & Wisconsin: One of six Team Leaders for the initial element level inspection of the St. Croix River Crossing extradosed cable-stayed bridge. A baseline inspection was performed, providing the client with accurate and repeatable reporting of deficiencies. Due to geometric constraints and to minimize impact to ongoing construction activities, rope access was utilized to inspect several complex bridge elements, including the pylons and below deck stay cable anchorages. The 5,279-ft-long bridge opened to traffic in 2017 and contains 10</p> | | |

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|---|--|
| | main-river crossing extradosed cable-supported spans and continuous post-tensioned precast and cast-in-place box girder approach spans. In addition, Michael assisted in WSP's drone inspection of this structure. |
| 6/11-Ongoing | NCDOT, NBIS Bridge Inspection, Repairs and Designs Team Leader, Project Manager and QC Manager. Michael has been involved with the NCDOT bridge inspection program for 20 years. He has performed field inspections, analysis and ratings; evaluated the physical condition; and recommended preservation and maintenance needs, repair plans, including the use of cathodic protection, and designed several bridges under this contract, including one of the states longest single span bridges. To date he has completed over 2,000 inspections, including many of the state's longest structures, segmental boxes, and fracture critical trusses. |
| 07/18-12/22 | SCDOT, Bridge Inspection and Load Rating, South Carolina: Project Manager of this contract, which consisted of bridge inspection and determination of the load capacity ratings for 2,604 structures in SC. All load ratings were completed with BrR. Michael utilized drones as an inspection tool to help identify specific areas of bridges where a "hands-on" inspection was needed. This resulted in reduced time required for traffic control and access equipment, providing a significant cost savings to SCDOT. In addition, WSP performed 120 load tests, involving instrumenting the bridges with strain gauges and driving known loads across the bridge. 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. <u>WSP efforts saved the State tens of millions of dollars.</u> |
| 6/16- Reselected 07/17 06/18-Ongoing | Texas Fracture-critical Bridge Inspection, Statewide Texas: Team Leader and Assistant Project Manager overseeing the staff that performed the inspections of over 900 fracture-critical members, 150 truss spans, 190 two-girder spans, and more than 300 fracture-critical bridges throughout the state of Texas. More than 70 fracture-critical members have required rope access, including the inspection of the Margaret Hunt Hill Bridge (2017) and I-35 Brazos River Bridges (2017). The Margaret Hunt Hill Bridge consists of a 1,197-ft cable-supported main span unit with a 400-ft-tall fracture-critical steel arch pylon supporting the stays. Rope access was used to gain the proper hands-on access required, and non-destructive testing was performed at problematic detail and crack locations. In addition to managing the staff of 6 Team Leaders performing these inspections, Michael also has performed the hands-on inspection of two structures including the Margaret Hunt Hill cable-stayed bridge. Client: Texas DOT. |

16. Staff Experience:**Bridge Inspection**

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| Firm employed by: WSP USA Inc. | | | | |
| Name | Raghu Surapaneni, PE | | Years of experience with this firm/employer | 2 |
| Title | Supervising Bridge Inspection Engineer | | Years of experience with other firm(s)/employer(s) | 27 |
| Degree(s) / Years / Specialization | | | MSE / Transportation / 1994 / Temple University ME / Structures / 1991 / University of Auckland, New Zealand B.E. / Civil Engineering / 1985 / Mysore University, India | |
| Active registration number / state / expiration date | | | PE LA (0038403) - 3/31/2022 (<i>to be renewed</i>), NY (078829) - 7/31/2024, NJ (41257) - 4/30/2022, NC (038356) - 12/31/2022; MS (21001) - 12/31/2022, SC (38030) - 6/30/2022; PA (052322E) - 9/30/2023 | |
| Year Registered | LA 2013; NY 2001; NJ 1998; NC 2011; MS 2012; SC 2020; PA 1997 | Discipline | Civil Engineering | |
| Contract role(s) / brief description of responsibilities | | | Bridge Inspection Lead <i>Relevant Training: FHWA Safety Inspection of In-Service Bridges, 2023 (NHI 130055); FHWA Introduction to Safety Inspection of In-Service Bridges - WEB-BASED, 2013 (NHI 130101); FHWA Fracture Critical Inspection Techniques for Steel Bridges, 2002 (NHI 130078); FHWA Stream Stability and Scour at Highway Bridges, 2008 (NHI 135046); FHWA Bridge Inspection Refresher Training, 2018 (NHI 130053); FHWA Bridge Inspection Nondestructive Evaluation Seminar - BINS, 2015 (NHI 130099A); FHWA Bridge Management Training Inspection Session, 1998; Confined Space Entry Training, 2021; AWS Certified Welding Inspection Seminar, 2015; OSHA 30 Hour Construction Safety Training, 2021.</i> | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. | | | |
| 01/15 – 09/16 | LADOTD In-Depth Inspection of Complex Bridges, LA: Project Manager and the Team Leader for the inspection of two cantilever truss bridges: I-10 Calcasieu River Bridge in Lake Charles, LA and I-10 Mississippi River in Baton Rouge, LA and one cable stayed bridge, John James Audubon Bridge. Planned, scheduled and performed in-depth inspections on truss bridges and approach spans of cable stayed bridge. Managed sub-consultants and vendors. Lead four inspection teams in inspecting approach and main spans of truss bridges. Prepared in-depth inspection reports for two truss bridges. Inspection equipment used include man lifts, snoopers and bucket trucks. | | | |

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| 06/14 - 12/14 | LADOTD, LA1 Phase 2 Leeville to Golden Meadow, LA: Project Engineer for the preliminary and final design of six miles of elevated highway. Performed design calculations, plan productions, LRFR load rating and QC/QA. Designed deck, superstructure and the substructure elements using LRFD design methodology. |
| 2013 - 2015 | LADOTD, LA1 Phase 1 Leeville to Port Fourchon, LA: Lead Inspection Team Leader for the inspection of Phase 1A: Fourchon to Leeville Bridge - Approximately 7 miles, 40-foot wide, two-lane elevated highway south of Leeville Bridge to LA 3090 in Port Fourchon; Phase 1B: Leeville Bridge Approaches and Connector - Two-lane interchanges and connector roads north and south of the Leeville Bridge; and Phase 1C: Leeville Bridge Replacement - Two-lane, fixed-span, high-level bridge (Tomey J. Doucet Bridge) over Bayou Lafourche. Structures include simple and multiple span, multi-beam, prestressed concrete and steel girder bridges. Performed inspections (2 Cycles) using boat, snoopers and WZTC. |
| 2012 - 2014 | MDOT: Lead Bridge Inspection Team Leader for NBI Inspection of Westbound and Eastbound bridges of US 84 over the Mississippi River in Natchez, MS (2 Cycles). Westbound bridge is a 4,205 feet long cantilevered Warren through truss bridge and the Eastbound bridge is 4,202 feet long Continuous Steel Truss through deck bridge. Inspected truss and approach spans using man lifts, snoopers and bucket truck. Prepared inspection reports including conclusions and repair recommendations. |
| 07/12 - 10/12 | MDOT: Structural Engineer for the Structural repairs to the Westbound US 84 over the Mississippi River bridge in Natchez, MS. Developed repair techniques and specifications for replacing deteriorated rivets and bolts; repairing cracks in stringer knee braces and deteriorated gusset plates; repairing steel railings, curbs, safety walks; patching concrete spalls; and repairing aesthetic lighting. Inspected construction work performed by the contractor. |
| 02/21 - 03/21 | GDOT, In-Depth Inspection of Sidney Lanier Bridge, Brunswick, GA: Team Leader for the in-depth inspection. Performed inspection of main and approach spans of this two-pylon cable-stayed structure supporting one main spans and two back spans (total length 2,500 feet) with a posttensioned concrete deck supported by concrete edge girders and post-tensioned concrete floorbeams. Thirty-four approach spans consist of ten prestressed or posttensioned concrete beams for a total bridge length of 7,780 feet. Performed inspections and prepared report detailing the findings of the inspections. |
| 10/16 - 03/20 | NCDOT Statewide Bridge Inspection Services, NC: Raghu served as Lead Bridge Inspection Team Leader for the Bridge Safety Inspection Program for NCDOT statewide bridge inspection services. He prepared the estimate, scheduled inspections and coordinated with vendors and the NCDOT. Reviewed previous inspection reports to establish Work Zone Traffic Control (WZTC), access needs, and developed WZTC schedules for bridge inspection. Performed inspections using WIGINS computer program, issued Critical Findings and Priority Maintenance reports to the state as and when needed. He also performed quality control review of bridge inspection reports prepared by other teams. Inspected about 450 structures including simple and multiple span, multi-beam, thru-girder, steel pipe, and concrete box culverts, as well as concrete slab bridges. Responsible for use of access equipment including snoopers or Under Bridge Inspection Units (UBIU), Van lift, hydra platform and railroad flagmen, etc. |

16. Staff Experience:

Bridge Inspection

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| Firm employed by: WSP USA Inc. | | | | |
| Name | Matthew Sullivan, PE, SP | | Years of experience with this firm/employer | 14 |
| Title | Bridge Inspection Task Leader | | Years of experience with other firm(s)/employer(s) | 1 |
| Degree(s) / Years / Specialization | | | BS / 2007 / Civil Engineering | |
| Active registration number / state / expiration date | | | PE LA (0042490) / 09-30-2022 | |
| Year registered | 2013 | Discipline | Civil Engineer | |
| Contract role(s) / brief description of responsibilities | | | Bridge Inspection Team Leader <i>Relevant Training: Safety Inspection of In-Service Bridges, 2011 (NHI-130055); Safety Inspect of Fracture-critical Inspection Techniques for Steel Bridges, 2014 (NHI 130078); Bridge Inspection Refresher Training, 2018 (NHI-130053); Tunnel Safety Inspection, 2017 (NHI 130110); SPRAT-Level II Rope Access Technician, 2018; Inspection and Maintenance of Ancillary Highway Structures, 2015 (NHI 130087); OSHA 10-hour Hazard Recognition Training for the Construction; Licensed Drone Pilot, 2021</i> | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. | | | |
| 06/16 Reselected 2018- Ongoing | TxDOT, Texas Fracture-critical Bridge Inspection, Statewide, Texas: One of six Team Leaders that has completed numerous on/off-system bridge inspections throughout the state, including over 900 fracture-critical members, 150 truss spans, 190 two-girder spans, and more than 300 fracture-critical bridges. More than 70 fracture-critical members have required rope access, including the inspection of the Margaret Hunt Hill Bridge (2017) and I-35 Brazos River Bridges (2017). The Margaret Hunt Hill Bridge consists of a 1,197-ft cable-supported main span unit with a 400-ft tall fracture-critical steel arch pylon supporting the stays. Matt used rope access to gain the proper hands-on access required, and assisted with non-destructive testing, performed at problematic detail and crack locations. | | | |
| 06/16-Ongoing | GDOT, Engineering Services for Cable-Stayed Structures, Georgia: One of six Team Leaders that completed the inspection and rehabilitation of the Talmadge Memorial and Sidney Lanier cable-stayed bridges. This task-order basis contract has included a special member inspection of the Sidney Lanier Bridge (2016) to evaluate exposed strands with various degrees of corrosion present, in-depth NBI and emergency post-hurricane inspection of the Talmadge Memorial Bridge (2017 and 2020) and the rehabilitation of the dampening system for the cable stays, and two rehabilitation design contracts for the Sidney Lanier Bridge. The first rehabilitation project for the Sidney Lanier Bridge primarily addressed deficiencies associated with excessive cable vibration, including repairs to cable-stays with breached protective sheathing and corroded strands. The second rehabilitation project included the installation of external dampers at all 176 stays. Due to geometric constraints, and to minimize impact to traffic, rope access was utilized to inspect several complex bridge elements, including the pylons and below deck stay cable anchorages. | | | |

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| 06/17-01/18 | MnDOT, St. Croix Bridge Inspection, Minnesota and Wisconsin: Task leader/Team Leader for the initial element level inspection of the St. Croix River Crossing extradosed cable-stayed bridge. A baseline inspection was performed, providing the client with accurate and repeatable reporting of deficiencies. Due to geometric constraints, and to minimize impact to ongoing construction activities, rope access was utilized to inspect several complex bridge elements, including the pylons and below deck stay cable anchorages. In addition to inspection, the scope of work included providing recommendations for updating the maintenance and inspection manual for the new signature structure. The 5,279- ft-long bridge opened to traffic in 2017 and contains 10 main-river crossing extradosed cable-supported spans and continuous post-tensioned precast and cast-in-place box girder approach spans. Matt also assisted with the drone portion of the inspection. |
| 07/16-Ongoing | FDOT, Sunshine Skyway Bridge, 10-Year Asset Maintenance Contract, Tampa, Florida: Team Leader, Complex Bridge Inspection tasks. Currently providing all technical support services to prime contractor. Support services include inspection of corridor bridges, including the Sunshine Skyway cable-stayed Bridge, and other engineering-related services, such as corrosion engineering, repair recommendations, and structural evaluations for emergency responses. |
| 05/14-Ongoing | DRBA (Delaware River Bay Authority), Delaware Memorial Bridge, General Inspection On-Call, New Castle, Delaware: Matt is Team Leader and Cable Specialist for the routine biennial inspection of the Delaware Memorial Bridge. Inspection tasks included hands on inspection of structural elements and fracture-critical elements. Visual and hands on inspections were performed via several access methods including, hung staging, high lifts, bucket trucks, underbridge inspection units, free climbing, and necessary MPT. |
| 01/10-Ongoing | TBTA (Triborough Bridge and Tunnel Authority), Biennial Bridge Inspections, NY: Team Leader/Cable Specialist. Matt serves as Team Leader, specializing in cable inspection for WSP's TBTA inspection projects. He has inspected main suspension cables, suspender ropes and sockets, cable splay saddles, cable strands, strand shoes, eyebars, dehumidification systems, etc. Representative assignments include: Bronx Whitestone Bridge 2013 Biennial Inspection; Verrazano Narrows Bridge 2012 Biennial Inspection; Throgs Neck Bridge 2011 Biennial Inspection; RFK (Triborough) Bridge Mainline 2010 and 2016 Biennial Inspections. |

16. Staff Experience:

Bridge Inspection

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| Firm employed by: WSP USA Inc. | | | | |
| Name | William (Coley) Mitchell | | Years of experience with this firm/employer | 10 |
| Title | Bridge Inspection Team Leader | | Years of experience with other firm(s)/employer(s) | 0 |
| Degree(s) / Years / Specialization | | | AS / 2011 / Architectural Engineering | |
| Active registration number / state / expiration date | | | NA | |
| Year registered | NA | Discipline | NA | |
| Contract role(s) / brief description of responsibilities | | | Bridge Inspection Team Leader <i>Relevant Training: FHWA Safety Inspection of In-Service Bridges, 2014 (NHI 130055); Safety Inspect of Fracture-critical Inspection Techniques for Steel Bridges, 2014 (NHI 130078); AINDT Ultrasonic Testing Level I, 2015; AINDT Ultrasonic Testing Level II General Exam, 2016; Bridge Coatings Level 1, 2014 (BCC-12219); FHWA Introduction to Element Level Bridge Inspection, 2014; SPRAT Level I Rope Access Technician, 2014; SPRAT Level II Rope Access Technician, 2017; FHWA Tunnel Safety Inspection, 2016 (NHI 130110); Confined Space Entry Training, 2017; FHWA Inspection and Maintenance of Ancillary Highway Structures, 2016 (NHI 130087); Aerial Training, 2017; American Red Cross Adult First Aid/CPR/AED; OSHA 30-hour Hazard Recognition Training for the Construction Industry, 2014; Bridge Inspection Refresher Training, 2018 (NHI 130053)</i> | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. | | | |
| 03/16-Ongoing Reselected 2017 | TxDOT, Texas Fracture-critical Bridge Inspection, Statewide, Texas: One of six Team Leaders that has completed numerous on/off-system bridge inspections throughout the state, including over 900 fracture-critical members, 150 truss spans, 190 two-girder spans, and more than 300 fracture-critical bridges. More than 70 fracture-critical members have required rope access, including the inspection of the Margaret Hunt Hill Bridge (2017) and I-35 Brazos River Bridges (2017). The Margaret Hunt Hill Bridge consists of a 1,197-ft cable-supported main span unit with a 400-ft tall fracture-critical steel arch pylon supporting the stays. William used rope access to gain the proper hands-on access required, and perform non-destructive testing on problematic detail and crack locations. | | | |
| 08/17-Ongoing | TxDOT, Routine Bridge Inspections, Statewide, Texas: Team Leader for hundreds of on/off-system routine bridge inspections throughout Texas. Work included creating and reviewing inspection reports within InspectTech, creating and submitting critical findings, and performing initial bridge inventory inspections. | | | |
| 06/16-Ongoing | GDOT, Engineering Services for Cable-Stayed Structures, Georgia: One of six Team Leaders that completed the inspection and rehabilitation of the Talmadge Memorial and Sidney Lanier cable-stayed bridges. This task-order basis contract has included a special member inspection of the Sidney Lanier Bridge (2016) to evaluate exposed strands with various degrees of corrosion present, in-depth NBI and emergency post-hurricane inspection of the Talmadge Memorial Bridge (2017 and 2020) and the rehabilitation of the dampening system for the cable stays, and two rehabilitation design | | | |

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| | contracts for the Sidney Lanier Bridge. The first rehabilitation project for the Sidney Lanier Bridge primarily addressed deficiencies associated with excessive cable vibration, including repairs to cable-stays with breached protective sheathing and corroded strands. The second rehabilitation project included the installation of external dampers at all 176 stays. Due to geometric constraints, and to minimize impact to traffic, rope access was utilized to inspect several complex bridge elements, including the pylons and below deck stay cable anchorages. |
| 06/17-01/18 | MnDOT, St. Croix Bridge Inspection, Minnesota and Wisconsin: Team Leader for the initial, element level inspection of the St. Croix River Crossing extradosed cable-stayed bridge. A baseline inspection was performed, providing the client with accurate and repeatable reporting of deficiencies. Due to geometric constraints and to minimize impact to ongoing construction activities, rope access was utilized to inspect several complex bridge elements, including the pylons and below deck stay cable anchorages. In addition to inspection, the scope of work included providing recommendations for updating the maintenance and inspection manual for the new signature structure. The 5,279-ft-long bridge opened to traffic in 2017 and contains 10 main-river crossing extradosed cable-supported spans and continuous post-tensioned precast and cast-in-place box girder approach spans. |
| 07/16-Ongoing | SCDOT, Bridge Inspection and Load Rating, Statewide, SC: Field Operations Manager of this contract, which consisted of bridge inspection and determination of the load capacity ratings for 2,604 structures in SC. All load ratings were completed with BrR. William utilized drones as an inspection tool to help identify specific areas of bridges where a “hands-on” inspection was needed. This resulted in reduced time required for traffic control and access equipment, providing a significant cost savings to SCDOT. In addition, William oversaw 120 load tests involving instrumenting the bridges with strain gauges and driving known loads across the bridge. 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. |
| 2011-Ongoing | 2011-2022 NCDOT, NBIS Bridge Inspection Team Leader, Statewide, NC, Project Manager: William has been involved with the NCDOT bridge inspection program for 10 years. He has performed field inspections, analysis and load ratings; evaluated the physical condition; and recommended preservation and maintenance needs. To date he has completed over 1,500 inspections, including many of the state’s longest structures, segmental boxes, and fracture critical trusses. |

16. Staff Experience:

Bridge Inspection

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| Firm employed by: WSP USA Inc. | | | | |
| Name | Casey Howard, PE | | Years of experience with this firm/employer | 9 |
| Title | Bridge Inspection Team Leader | | Years of experience with other firm(s)/employer(s) | 0 |
| Degree(s) / Years / Specialization | | BS / 2013 / Civil Engineering | | |
| Active registration number / state / expiration date | | PE LA(0042913) / 3-31-2023 | | |
| Year registered | 2018 | Discipline | Civil Engineer | |
| Contract role(s) / brief description of responsibilities | | Bridge Inspection Team Leader & Routine Bridge Repair Lead <i>Relevant Training: FHWA Safety Inspection of In-Service Bridges, 2014 (NHI 130055); FHWA Prerequisite, 2013 (NHI 130101A); AINDT Ultrasonic Testing Level I, 2015; AINDT Ultrasonic Testing Level II General Exam, 2015; Fracture-Critical Inspection Techniques for Steel Bridges, 2016 (NHI 130078); Bridge Coatings Level 1, 2014 (BCC 12219); FHWA Bridge Maintenance Training, 2013 (NHI 134029); FHWA Introduction to Element Level Bridge Inspection, 2014; SPRAT Level I Rope Access Technician, 2015; SPRAT Level II Rope Access Technician, 2017; FHWA Tunnel Safety Inspection, 2016 (NHI 130110); Confined Space Entry Training, 2017; American Red Cross Adult First Aid/CPR/AED; Bridge Inspection Refresher Training, 2018 (NHI 130053); FHWA Inspection and Maintenance of Ancillary Highway Structures, 2016 (NHI 130087); Aerial Training, 2017</i> | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. | | | |
| 03/16-Ongoing Reselected 2017 | TxDOT, Texas Fracture-critical Bridge Inspection, Statewide, Texas: One of six Team Leaders that has completed numerous on/off-system bridge inspections throughout the state, including over 900 fracture-critical members, 150 truss spans, 190 two-girder spans, and more than 300 fracture-critical bridges. More than 70 fracture-critical members have required rope access, including the inspection of the Margaret Hunt Hill Bridge (2017) and I-35 Brazos River Bridges (2017). Casey used rope access to gain the proper hands-on access required, and performed non-destructive testing at problematic detail and crack locations. | | | |
| 08/17-Ongoing | TxDOT, Routine Bridge Inspections, Statewide, Texas: Team Leader for hundreds of on/off-system routine bridge inspections throughout Texas. Work included creating and reviewing inspection reports within InspectTech, creating and submitting critical findings, and performing initial bridge inventory inspections. | | | |
| 06/16-Ongoing | GDOT, Engineering Services for Cable-Stayed Structures, Georgia: One of six Team Leaders that completed the inspection and rehabilitation of the Talmadge Memorial and Sidney Lanier cable-stayed bridges. This task-order basis contract has included a special member inspection of the Sidney Lanier Bridge (2016) to evaluate exposed strands with various degrees of corrosion present, in-depth NBI and emergency post-hurricane inspection of the Talmadge Memorial Bridge (2017 and 2020) and the rehabilitation of the dampening system for the cable stays, and two rehabilitation design contracts for the Sidney Lanier Bridge. The first rehabilitation project for the Sidney Lanier Bridge primarily addressed | | | |

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| | deficiencies associated with excessive cable vibration, including repairs to cable-stays with breached protective sheathing and corroded strands. The second rehabilitation project included the installation of external dampers at all 176 stays. Due to geometric constraints, and to minimize impact to traffic, rope access was utilized to inspect several complex bridge elements, including the pylons and below deck stay cable anchorages. |
| 06/17-01/18 | MnDOT, St. Croix Bridge Inspection, Minnesota & Wisconsin: Team Leader for the initial element level inspection of the St. Croix River Crossing extradosed cable-stayed bridge. A baseline inspection was performed, providing the client with accurate and repeatable reporting of deficiencies. Due to geometric constraints, and to minimize impact to ongoing construction activities, rope access was utilized to inspect several complex bridge elements, including the pylons and below deck stay cable anchorages. The 5,279-ft-long bridge opened to traffic in 2017 and contains 10 main-river crossing extradosed cable-supported spans and continuous post-tensioned precast and cast-in-place box girder approach spans. |
| 2012-Ongoing | NCDOT, NBIS Bridge Inspection and Repair Team Leader, and QC Manager. Casey has been involved with the NCDOT bridge inspection program for 9 years. He has performed field inspections, analysis and ratings; evaluated the physical condition; and recommended preservation and maintenance needs. To date he has completed over 1,500 inspections, including many of the state's longest structures, segmental boxes, and fracture critical trusses. Casey has also lead the design for numerous bridge repair and preservation projects under this contract including: hydro-demolition and latex-modified concrete overlays, joint replacement, beam end repairs, timber and concrete pile repairs, galvanic protection of prestressed girders, cathodic and sacrificial anode protection of bent caps, bearing replacement and prestressed pile jacketing with sacrificial anodes. |
| 09/17-Ongoing | NFBC (Niagara Falls Bridge Commission), Annual Bridge, Infrastructure & Facility Inspections, Niagara Falls, New York: One of four Team Leaders that performed the NBIS Biennial Inspection, and UT level II inspector of the Whirlpool Rapids Bridge, the off-cycle General Inspections of the Rainbow and Lewiston-Queenston Bridges, and inspections of all associated infrastructure and facilities at all three bridge locations including toll and border crossing plazas, sign and light structures, buildings, retaining walls and various roadway elements. Traditional access equipment that has been utilized in conducting the inspections has included boom lifts, bucket trucks, ladders and traffic control. Casey utilized innovative access techniques to eliminate or reduce the need for costly traffic control, including the use of technical climbing techniques and rope access. During a UT scan, Casey identified a fractured pin in the Whirlpool Rapids Bridge. |

16. Staff Experience:**Bridge Inspection**

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| Firm employed by: WSP USA Inc. | | | |
| Name | Ross Dewey, PE | | Years of experience with this firm/employer 6 |
| Title | Lead Consultant, Structural Engineer | | Years of experience with other firm(s)/employer(s) 12 |
| Degree(s) / Years / Specialization | | BS / 2009 / Civil Engineering | |
| Active registration number / state / expiration date | | PE LA (043287) / 09-30-2023 | |
| Year Registered | 2019 | Discipline | Structural Engineering |
| Contract role(s) / brief description of responsibilities | | Bridge Inspection Team Leader <i>Relevant Training: FHWA Safety Inspection of In-Service Bridges, 2016 (NHI 130055); Bridge Inspection Refresher Training, 2020 (NHI 130053); SPRAT-Level II Rope Access Technician; FHWA Tunnel Safety Inspection, 2019 (NHI 130110)</i> | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. | | |
| 2016 - 2021 | TxDOT, Fracture Critical Inspection Contract, Statewide, Texas: Ross serves as a bridge engineer and inspector for fracture-critical inspections of bridges throughout Texas. He obtains rail right of entry as needed, organizes and performs inspections, writes and reviews inspection reports, and analyzes structural elements as required to assess the severity of defects. Bridges have ranged from off-system low ADT structures to signature bridges such as the Margaret Hunt Hill cable-stayed bridge. The use of technical climbing and rope access techniques is often required. Performs non-destructive testing as necessary on fatigue-prone details, primarily to determine limits of fatigue cracks found in fracture-critical members. | | |
| 2017 - 2021 | TxDOT, Routine Inspection Contract, Statewide, Texas Department of Transportation (2017-2021): Ross serves as the Task Lead for WSP’s ongoing routine inspection contract. He obtains rail right of entry as needed, performs inspections, coordinates inspection personnel, reviews inspection reports, and ensures all appropriate materials are submitted to TxDOT in a timely manner and in accordance with contract requirements. | | |
| 2017 & 2020 | GDOT, Engineering Services for Cable-Stayed Structures, Savannah, Georgia: Ross served as an inspector for the Talmadge Memorial cable-stayed bridge in Savannah, Georgia. An in-depth inspection of this bridge was performed in September 2017 and June 2020. Ross gained hands-on access using rope access techniques and inspected various bridge elements, including stay cables and anchorages. | | |

16. Staff Experience:**Bridge Inspection**

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| Firm employed by: WSP USA Inc. | | | | |
| Name | Raul Acosta-Garcia | | Years of experience with this firm/employer | 6 |
| Title | Lead Consultant, Structural Engineer | | Years of experience with other firm(s)/employer(s) | 15 |
| Degree(s) / Years / Specialization | | | BS / 2006 / Civil Engineering | |
| Active registration number / state / expiration date | | | NA | |
| Year Registered | NA | Discipline | Structural Engineering | |
| Contract role(s) / brief description of responsibilities | | | Bridge Inspection Team Leader <i>Relevant Training: FHWA Safety Inspection of In-Service Bridges, 2007 (NHI 130055); Bridge Inspection Refresher Training, 2017 (NHI 130053); Fracture-Critical Inspection Techniques for Steel Bridges, 2014 (NHI 130078) ; FHWA Inspection and Maintenance of Ancillary Highway Structures, 2015 (NHI 130087)</i> | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. | | | |
| 2016 - 2021 | TxDOT, Fracture Critical Inspection Contract, Statewide, Texas: Raul serves as a bridge engineer and inspector for fracture-critical inspections of bridges throughout Texas. He obtains rail right of entry as needed, organizes and performs inspections, writes and reviews inspection reports, and analyzes structural elements as required to assess the severity of defects. Bridges have ranged from off-system low ADT structures to signature bridges such as the Margaret Hunt Hill cable-stayed bridge. The use of technical climbing and rope access techniques is often required. Performs non-destructive testing as necessary on fatigue-prone details, primarily to determine limits of fatigue cracks found in fracture-critical members. | | | |
| 2013 | VDOT, Region IV Bridge Maintenance and Repair, Northern Virginia, Virginia: Team leader involved in the bridge inspection and deck evaluation prior to the development of the bridge superstructure, deck replacement, and substructure repairs of structures and bridges. Duties included writing inspection report, developing sketches, and coordinating with vendors (access equipment and Maintenance of Traffic) and Northern Region Operations Transportation Operations Center. | | | |
| 2016-Ongoing | NCDOT, Structure Management Support, North Carolina: Team leader for NBIS inspection of multiple bridges. Bridge types include steel girder, segmental concrete box girder, concrete deck girders, steel truss, timber girders, and prestressed girders, concrete culverts, and corrugated metal pipes. Served as a reviewer for bridge inspection reports. WSP provided statewide bridge designs for the North Carolina Department of Transportation, including plan preparation, working drawing reviews, and bridge rehabilitation plans. over Little Yadkin River, and the rehabilitation of Bridges 15 and 16 on the Winston-Salem Northern Beltway. | | | |

16. Staff Experience:

Bridge Inspection

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| Firm employed by: WSP USA Inc. | | | | |
| Name | Ricardo Cornejo, PE | | Years of experience with this firm/employer | 8 |
| Title | Lead Bridge Engineer | | Years of experience with other firm(s)/employer(s) | 8 |
| Degree(s) / Years / Specialization | | | BS / Civil Engineering / 2013 | |
| Active registration number / state / expiration date | | | PE GA (PE047735) – 12/2022; MS (32323) – 12/2022; NC (052733) – 12/2022; SC (39466) – 6/2022; VA (0402064297) – 9/2023 | |
| Year Registered | 2021 (all) | Discipline | Civil Engineering | |
| Contract role(s) / brief description of responsibilities | | | Bridge Inspection Team Leader <i>Relevant Training: FHWA Safety Inspection of In-Service Bridges, 2015 (NHI 130055); FHWA Prerequisite, 2015 (NHI 130101A); AINDT Ultrasonic Testing Level I, 2017; Bridge Coatings Level 1, 2017 (BCC 12219); FHWA Introduction to Element Level Bridge Inspection, 2014; Confined Space Entry Training, 2017; American Red Cross Adult First Aid/CPR/AED; Bridge Inspection Refresher Training, 2018 (NHI 130053); FHWA Inspection and Maintenance of Ancillary Highway Structures, 2016 (NHI 130087); Aerial Training, 2017.</i> | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. | | | |
| 2018 - Ongoing | City of Raleigh Bridge Inspection and Repairs, Raleigh, North Carolina: Ricardo is serving as the team leader for the in-service inspection of all of the City of Raleigh bridges. He responsible for setting the schedule, accurately documenting new and previous conditions, verifying and revising structural dimensions and report sketches, and load rating bridges to Federal Highway Administration and North Carolina Department of Transportation standards using WIGINS Elements Database. WSP provided inspections, report preparation, load ratings and repair prioritization for 58 municipal-owned structures across the city. The firm was also responsible for setting the schedule, accurately documenting new and previous conditions, verifying and revising structural dimensions and report sketches, and load rating bridges to Federal Highway Administration and North Carolina Department of Transportation standards using the WIGINS Elements Database. | | | |

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| 2014-2020 | City of Charlotte Bridge Inspection and Repairs, Charlotte, North Carolina: Team leader for in-service inspection of City of Charlotte bridges. Ricardo is responsible for setting the schedule, accurately documenting new and previous conditions, verifying and revising structural dimensions and report sketches, and load rating bridges to Federal Highway Administration and North Carolina Department of Transportation standards using WIGINS Elements Database. WSP performed National Bridge Inspection Standards safety inspections of highway structures and bridges. |
| 2016 | RITBA, Rhode Island Turnpike and Bridge Authority, Bridge Inspection and On-Call Engineering Services, Rhode Island: Ricardo assisted with inspection of the inside of both reinforced concrete box girders. WSP provided biennial, special inspection services of the Mount Hope Bridge, the Jamestown-Verrazzano Bridge and the Newport/Pell Bridge. WSP also provided on-call consulting regarding proper repair and future maintenance projects. |
| 2013-Ongoing | NCDOT, Bridge Inspection On-Call Services, North Carolina: Ricardo is serving as the team leader on this contract performing National Institute of Building Sciences inspections. He is performing element based inspections on standard highway and stream overpasses. WSP was selected to provide state bridge inspection services on this task order contract for the North Carolina Department of Transportation. Safety inspections were conducted and reports were prepared for bridges in Columbus, Cumberland, Hoke, Iredell, Northampton, Robeson, Rockingham, Sampson, and Scotland Counties. |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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| Firm employed by: WSP USA Inc. | | | | |
| Name | Ryan Bell, PE | | Years of relevant experience with this employer | 4 |
| Title | Lead Ports and Marine Engineer | | Years of relevant experience with other employer(s) | 14 |
| Degree(s) / Years / Specialization | | | BS / 2002 / Civil Engineering | |
| Active registration number / state / expiration date | | | Professional Engineer: FL / 66425 - 2/28/23; AK 100390 - 12/31/2021; CA 84626 - 9/30/2021; WA 50993 - 1/1/23; NV 023777 - 12/31/2022 | |
| Year registered | 2005, 2015, 2015, 2013, 2015 | Discipline | Marine Engineering | |
| Contract role(s) / brief description of responsibilities | | | Bridge Inspection Team Leader / Underwater Team Leader Relevant Training: FHWA Safety Inspection of In-Service Bridges 2007 (NHI 130055); FHWA Safety Inspection of In-Service Bridges Refresher 2021 (NHI 130053); FHWA Fracture Critical Inspections Technique for Steel Bridges (NHI 130078); ADCI Dive Supervisor; NAUI Enricher Air NITROX Diver; PADI Divemaster; NDT Ultrasonic Testing; FL Commercial Surface Supplied Diver; | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | | |
| 03/2017 – 07/2017 | NAVY, Railroad Bridge Repair/Replacement Study, Bremerton, WA: Structural engineer responsible for load rating analysis of eight bridges for Cooper E80, Cooper E60, and other railcar loading requirements. | | | |
| 08/2016 – 09/2016 | SFMTA, Underwater Bridge Inspection Task Order #8, San Francisco, CA: Engineer-diver performing the underwater inspection of 14 bridges, including the San Francisco Bay and the Dunbarton Bridges. Performed underwater bridge inspections and 3D multi-beam acoustic scanning of bridge substructures. | | | |
| 05/2015 – 06/2015 | Port Authority of New York and New Jersey, Hood Canal Bridge Repairs Underwater QC, Hood Canal, WA: Responsible for observing post-construction conditions of newly installed bridge anchor lines via a remotely operated vehicle (ROV). | | | |
| 08/2014 – 09/2014 | WSDOT, West Sammamish River Bridge Underwater Inspection, Kenmore, WA: Project manager/team leader/engineer diver for this project that included a Level I and Level II routine underwater inspection of the substructure piers. Responsible for overall project management, resource planning, mobilization and execution of underwater inspection, inspection report production, engineering design and plans production, and technical quality control. | | | |

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| 03/2014 – 06/2014 | UDOT, Underwater Bridge Inspections, Statewide, UT: Project engineer for this project that involved performing a full, element-level, routine inspection, as well as the underwater inspection of 60 bridges. Acoustic imaging was also performed. A detailed report was prepared for each structure. Responsible for creating the pre-inspection planning documents for each bridge. |
| 03/2012 – 06/2012 | Complex Bridge Evaluations and Load Ratings, Monrovia, Liberia: Team leader/structural engineer for this project that included three complex bridges and one minor bridge. Responsible for planning, performing, and managing the above and underwater inspections of bridges; also performed load ratings of bridges. |
| 06/2012 – 03/2013 | FDOT, I-95 Widening Design-Build, St. Lucie, FL: Lead structural engineer for this project that included the widening of I-95 Bridge over Indrio Road. Responsible for design of bridge widening and detailing of construction plans. |
| 04/2011 – 06/2012 | DTOP, Load Rating of Existing Bridges, San Juan, PR: Structural engineer for this project that included load rating of prestressed beam, reinforced concrete beam, flat slab, steel girder, and reinforced concrete culvert bridge structures. Responsible for planning and coordinating 293 bridge assessments for load rating analysis. Performed load rating analysis of single and multi-span prestressed concrete bridges. |
| 04/2011 – 06/2012 | DTOP, Bridge Scour Program, San Juan, PR: Structural engineer performing scour inspections at a portion of the load rating bridge sites. The project included data collection, site visits, hydrologic and hydraulic analysis, geotechnical and structural assessment, and preparing plans of action (POA) for recommending countermeasures at scour critical bridges. Responsible for planning and executing the inspection and scour evaluation of 124 bridges. |
| 03/2010 – 06/2010 | FDOT, Peace River Bridge Scour Repair, Charlotte County, FL: Project manager/lead structural engineer/lead diver responsible for performing initial, progress, and final underwater inspections of scour repairs made to the Peace River Bridge. |
| 2020 | Pensacola Bay Bridge Emergency Damage Inspection, FL: Assisted with the emergency inspection of the heavily damage 3-mile-long signature bridge. Hurricane Sally caused several barges to break loose and repeatedly impact the Pensacola Bay Bridge. Damage included 2 span failures. Client Skanska |

16. Staff Experience:

Bridge Inspection

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| Firm employed by: WSP USA Inc. | | | | |
| Name | Brendan Jones, PE | | Years of relevant experience with this employer | 1 |
| Title | Bridge Inspection Engineer / Assistant Team Leader | | Years of relevant experience with other employer(s) | 13 |
| Degree(s) / Years / Specialization | | | BE / 2007 / Civil Engineering | |
| Active registration number / state / expiration date | | | NA | |
| Year registered | NA | Discipline | Civil Engineering | |
| Contract role(s) / brief description of responsibilities | | | Bridge Inspection Team Leader Brenden Jones has been active for several years in the rope access side of bridge inspection and maintenance, holding a SPRAT Level 3 Certification. He has worked with inspectors to provide safe, timely access to all areas on a variety of bridges. Some of the bridges Brenden has worked on include Robert F. Kennedy, Outerbridge Crossing, Brooklyn, Bear Mountain, Rainbow (Niagara Falls), and Goethals. <i>Relevant Training: FHWA Safety Inspection of In-Service Bridges, 2022 (NHI 130055); SPRAT Level III</i> | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | | |
| 2020-2021 | NYDOT, Biennial Inspections of Bridges, Region 8, Region-Wide, New York: Assistant team leader for Region 8 inspections. Brendan was responsible for assisting with inspection, report preparation, and documentation in BDIS. Region 8 consists of a variety of bridges, including single-span, rigid frame concrete bridges to mutli-span, and multi-girder steel bridges. WSP is the prime consultant performing the inspection of 2,456 bridges in the seven counties of New York State Department of Transportation, Region 8. Up to ten concurrent bridge inspection teams are utilized to inspect bridges on high speed roadways, employing multiple concurrent subcontractor lane closure crews and a variety of access equipment. The bridge data information system and BrR software are used to document inspections and to perform load rating analyses of bridges. | | | |
| 2020 | Rope Access Inspection Firm - SPRAT Level 3 Rope Access Technician: Supervised access via rope access techniques to inspection teams from WSP (Rainbow Bridge, Niagara Falls Bridge Commission) and other firms (Outerbridge Crossing, Port Authority of New York and New Jersey; and the Brooklyn Bridge, New York City Department of Transportation). Brenden also supervised the installation of fall protection scaffolding and netting on the Portal Bridge for tie replacement project. | | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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| Firm employed by CONSOR Engineers, LLC | | | | |
| Name | Heath Pope, PE | | Years of relevant experience with this employer | 5 |
| Title | Vice President | | Years of relevant experience with other employer(s) | 27 |
| Degree(s) / Years / Specialization | | BS/1992/Civil Engineering MBA/2004/Old Dominion University | | |
| Active registration number / state / expiration date | | LA (36946) – 09/30/2022 | | |
| Year registered | 2012 | Discipline | Professional Engineer/Civil | |
| Contract role(s) / brief description of responsibilities | | Mr. Pope fulfills the minimum personnel requirement for an Inspection Team Leader Project Manager. | | |
| Experience dates (mm/yy–mm/yy) | <p>Mr. Pope provides more than 27 years of experience with a wide range of inspection and repair/rehabilitation projects. As a professional engineer and commercial diver, he routinely performs above-water and underwater condition assessments and repair design inspections; his experience includes a wide range of structures, including bridges, piers, wharves, relieving platforms, dry docks, quay walls, bulkheads, caissons, pipelines, and fender and mooring systems. Typical clients include state departments of transportation (DOTs), the US Navy, major port authorities, US Coast Guard, and several other federal agencies, municipal, and private clients throughout the US, Canada, and the Pacific Rim. He also serves as a member and contributing author on the ASCE Ports and Harbors committee which developed the new <i>ASCE Waterfront Facilities Inspection and Assessment Standard Practice Manual</i>, published June 2015.</p> <p>Courses:</p> <ul style="list-style-type: none">• NHI 130055, “Safety Inspection of In-Service Bridges” – 02/04/2005• NHI 130053, “Bridge Inspection Refresher Training” – 01/25/2018• NHI 130078, “Fracture Critical Inspection Techniques for Steel Bridges” – 03/06/2009• NHI 130091, “Underwater Bridge Inspection” – 09/01/2007• NHI 130110, “Tunnel Safety Inspection” – 03/03/2017• NHI 135047, “Stream Stability & Scour Highway Bridges for Bridge Inspection” – 02/21/2007 <p>Certifications:</p> <ul style="list-style-type: none">• Surface-Supplied Air Diving Supervisor – ADCI #24803 | | | |
| 1/17 – Ongoing | <p>LADOTD, Contract 4400009105: Statewide Underwater Bridge Inspections, Project Manager/Team Leader</p> <p>Under seven task orders for two consecutive contracts, CONSOR has performed 1200+ underwater inspections of bridges in LADOTD Districts statewide. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. Inspections have included challenging aspects specifically related to wildlife, fast currents, difficult access as well as culvert structures requiring penetration dives through extensive silt and debris build up. CONSOR’s most recently completed task order (2019) included 254 bridges in LADOTD District 2, which encompasses the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 Eastbound/Westbound bridges</p> | | | |

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| | over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 Eastbound/Westbound over the Bonnet Carre Spillway. CONSOR's current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. |
| 2014 – 2016 | LADOTD, Underwater Bridge Inspection Statewide, Project Manager/Team Leader At his previous firm, Mr. Pope performed on this five-year retainer contract to perform underwater bridge inspections throughout Louisiana, including 100% visual inspections of submerged elements in accordance with NBIS requirements. Task orders included: Task 1 (2014) in District Seven – underwater inspection of 277 concrete, steel, and timber bridges; Task 2 (2014) in District Three – underwater inspection of 96 concrete, steel, and timber bridges; Task 3 (2014-2015) in District 61 – underwater inspection of 69 concrete, steel, and timber bridges; and Task 5 (2016) in District Two – underwater inspection of 30 concrete, steel, and timber bridges. |
| 1/17 - Ongoing | Iowa DOT, Statewide Underwater Bridge Inspections, Team Leader/Dive Supervisor CONSOR has performed four consecutive cycles of statewide underwater bridge inspections, totaling 200+ inspections. Bridges included timber, steel, and concrete construction crossing streams and rivers with swift currents, limited access, and zero visibility. Each inspection required an in-depth engineering report with photographs and CADD drawings illustrating defects. |
| 1/17 – Ongoing | MDOT, Statewide Underwater Bridge Inspections, Team Leader/Dive Supervisor CONSOR has been selected for three contract cycles of NBIS underwater inspections for 200+ bridges throughout the state. Underwater acoustic imaging and hydrographic surveying was performed on six bridges on the Mississippi and Pearl Rivers. Diving conditions included fast flow with debris and limited visibility. Structural conditions were documented with underwater photography. Non-destructive testing was used to accurately determine section loss of steel piles, and timber piles were inspected using a resistograph instrument. Soundings were taken upstream and downstream of the bridge while full contours were developed for each bridge site. Reports included NBIS component ratings and Pontis Element Level inspections. Scour countermeasures were designed for the I-10 Bridge in Pascagoula when soundings indicated excessive scour had occurred. |

16. Staff Experience:

Bridge Inspection / Underwater Inspection

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| Firm employed by CONSOR Engineers, LLC | | | MPR 4 | |
| Name | Michael Dukes, PE | | Years of relevant experience with this employer | 12 |
| Title | Structural Engineer | | Years of relevant experience with other employer(s) | 2 |
| Degree(s) / Years / Specialization | | | BS/2008/Civil Engineering; MS/2009/Civil Engineering; MS/2019/Engineering Mgmt. | |
| Active registration number / state / expiration date | | | LA (40986) – 3/31/2023 | |
| Year registered | 2016 | Discipline | Professional Engineer/Civil | |
| Contract role(s) / brief description of responsibilities | | | Meets all the requirements of MPR 4. Mr. Dukes fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver (Team Leader) and underwater acoustic imaging. | |
| Experience dates (mm/yy–mm/yy) | Mr. Dukes has 14 years of experience in underwater bridge inspections. He has performed underwater bridge inspections, acoustic imaging inspections, and hydrosurveys for state departments of transportation in Louisiana, Alaska, Arkansas, California, Florida, Kansas, Missouri, Mississippi, Montana, Nebraska, Oklahoma, South Carolina, South Dakota, Texas, and Virginia. Federal clients include the US Navy, US Coast Guard, and Bureau of Indiana Affairs. He has experience with special underwater diving equipment including a clear water box for underwater photography, underwater video equipment, underwater D-meter, and underwater hydraulic tools. He has made presentations on underwater bridge inspections and acoustic imaging at numerous conferences, including the Louisiana Transportation Conference. Courses: <ul style="list-style-type: none">• NHI 130055, “Safety Inspection of In-Service Bridges” – 10/16/2015• NHI 130053, “Bridge Inspection Refresher Training” – 03/12/2021• NHI 130091, “Underwater Bridge Inspection” – 01/30/2015• NHI 130078, “Fracture Critical Inspection,” – 05/10/2013• NHI 135085, “Plan of Action for Scour Critical Bridges” – 10/15/2020 Certifications: <ul style="list-style-type: none">• Surface-Supplied Air Diving Supervisor – ADCI #58165• FHWA-certified NHI Bridge Instructor (2015): NHI 130053, NHI 130091• HYPACK Hydrographic Surveying Field to Finish Single Bean Training – 05/21/2018 | | | |
| 09/13 - Ongoing | LADOTD, Contract 4400009105: Statewide Underwater Bridge Inspections, Team Leader/Acoustic Imaging Under seven task orders for two consecutive contracts, CONSOR has performed 1200+ underwater inspections of bridges in LADOTD Districts statewide. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. Inspections have included challenging aspects specifically related to wildlife, fast currents, difficult access as well as culvert structures requiring penetration dives through extensive silt and debris build up. CONSOR’s most | | | |

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| | recently completed task order (2019) included 254 bridges in LADOTD District 2, which encompasses the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 Eastbound/Westbound bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 Eastbound/Westbound over the Bonnet Carre Spillway. CONSOR's current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. |
| 02/12 - 03/13 | <p>LADOTD, Contract H.005365.5: Underwater Acoustic Imaging for Bridge Inspection, Project Manager/Team Leader</p> <p>As a subconsultant, CONSOR assisted in the performance of underwater acoustic imaging for the inspection of 100+ bridge piers throughout the state of Louisiana. CONSOR provided diver investigations of any anomalies that were found. The pier inspections included both sides of the piers and the upstream and downstream noses of the piers. The scans were performed to identify and locate any major damage or deterioration, such as corrosion, loss of section, or scour undermining. Equipment required for these scans included a multi axis, steered beam imaging and profiling remote sensing system. All surface-supplied air diving was performed by ADCI-certified divers. Detailed reports were generated and submitted to LADOTD</p> |
| 11/14 - Ongoing | <p>TxDOT, Statewide Underwater Bridge Inspections, Project Manager/Team Leader</p> <p>CONSOR is providing underwater bridge inspection and acoustic imaging statewide under a task order-based contract. Each bridge is inspected from two feet above the mean high tide waterline to the mudline. Each inspection requires a detailed engineering report that includes client-specific forms, channel cross-section sketch, follow-up action worksheet, elemental data inspection record, and inventory and defect photographs. Task orders have included the underwater inspection and acoustic imaging of on- and off-system bridges in the Houston, Paris, and Atlanta Districts.</p> |
| 1/10 - Ongoing | <p>SCDOT, Statewide Underwater Bridge Inspections, Team Leader</p> <p>Under four consecutive contracts, CONSOR has performed 550+ underwater bridge inspections throughout the state. Responsibilities included the investigation, evaluation, and recommendation of repairs to the bridges' substructure units (located in the water). Bridges ranged in size from small, completely submerged box culverts to large, river-crossing trusses and cable stays. After the inspection, a complete report was prepared for each bridge detailing the findings, rating the bridges in both NBIS and BMS, and stating recommended repairs. Acoustic imaging was used on bridges over the Cooper and Wando Rivers to document scour for repair recommendations, a project for which CONSOR an Engineering Excellence award from the American Council of Engineering Companies.</p> |

16. Staff Experience:

Bridge Inspection / Underwater Inspection

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| Firm employed by CONSOR Engineers, LLC | | | | |
| Name | Dustin Noel, PE | | Years of relevant experience with this employer | 13 |
| Title | Underwater Bridge Inspection Diver Team Leader | | Years of relevant experience with other employer(s) | 6 |
| Degree(s) / Years / Specialization | | | BS/2003/Civil Engineering | |
| Active registration number / state / expiration date | | | OK (26411) – 10/31/2022 | |
| Year registered | 2003 | Discipline | Professional Engineer/Civil | |
| Contract role(s) / brief description of responsibilities | | | Mr. Noel fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver (Team Leader). | |
| Experience dates (mm/yy–mm/yy) | Mr. Noel is a structural engineer with more than 19 years of experience performing NBIS safety inspections of bridges using FHWA standards. His experience includes routine, fracture critical, and underwater bridge inspections. Mr. Noel’s client portfolio includes state departments of transportation nationwide, including Louisiana, as well as federal agencies. Mr. Noel serves as a lead instructor for PennDOT’s <i>Basic Bridge Safety Inspection Course</i> ; <i>Bridge Safety Inspection Refresher Training</i> ; and <i>Load Rating Analysis of Highway Bridges</i> . He is a SPRAT Level III-certified rope access technician. Courses: <ul style="list-style-type: none">• PennDOT, “Bridge Safety Inspection Course” (FHWA/NHI-approved 130055 equivalent) – 2/2/2004• NHI 130053, “Bridge Safety Inspection Refresher Course” – 3/27/2019• NHI 130078, “Fracture Critical Inspection Techniques for Steel Bridges” – 6/07/2011• NHI 130088, “Bridge Construction Inspection” – 1/08/2008• NHI 130091, “Underwater Bridge Inspection” – 1/25/2019 Certifications: <ul style="list-style-type: none">• Surface-Supplied Air Diving Supervisor– ACDI #58346• SPRAT Level III Engineer Climber• FHWA-certified NHI Bridge Inspection Instructor (2019): NHI 130053, NHI 130078 | | | |
| 03/13 – Ongoing | PennDOT, Statewide Underwater Bridge Inspections, Project Manager/Team Leader: The PennDOT Bureau of Maintenance and Operations has selected CONSOR for a third consecutive five-year contract to perform underwater inspections on bridges and tunnels statewide. The project includes NBIS inspection, scour evaluation, and report preparation with photographs and drawings, as well as participation in bridge owner meetings. | | | |
| 08/12 – 05/18 | VDOT, Statewide Underwater Bridge Inspections Team Leader: Under four contracts, CONSOR was selected to provide professional NBIS diving services for inspection and analysis on bridges throughout Virginia. CONSOR provided all personnel and equipment necessary to perform the underwater inspections that included recommendations of follow-up action and the preparation of inspection reports. | | | |

16. Staff Experience:

Bridge Inspection / Underwater Inspection

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| Firm employed by CONSOR Engineers, LLC | | | | |
| Name | Sebastien Templeton, PE | | Years of relevant experience with this employer | 4 |
| Title | Underwater Bridge Inspector Team Leader | | Years of relevant experience with other employer(s) | 11 |
| Degree(s) / Years / Specialization | | | BS/2004/Mechanical Engineering | |
| Active registration number / state / expiration date | | | FL (73173) – 2/28/2023 | |
| Year registered | 2011 | Discipline | Professional Engineer/Civil | |
| Contract role(s) / brief description of responsibilities | | | Mr. Templeton fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver (Team Leader). | |
| Experience dates (mm/yy–mm/yy) | Mr. Templeton has 15 years of experience managing and leading waterfront inspection and repair/ rehabilitation design projects. Specific expertise includes structural condition assessment, corrosion assessment and mitigation, cathodic protection evaluation and design, and construction management. He routinely performs above-water and underwater condition assessments and repair design inspections. Courses: <ul style="list-style-type: none">• NHI 130055, “Safety Inspection of In-Service Bridges” – 04/19/2013• NHI 130053, “Bridge Inspection Refresher Training” – 03/27/2019• NHI 130091, “Underwater Bridge Inspection” – 07/02/2009 Certifications: <ul style="list-style-type: none">• Surface-Supplied Air Diving Supervisor – ADCI #48653 | | | |
| 07/17 – Ongoing | LADOTD, Contract 4400009105: Statewide Underwater Bridge Inspections, Project Team Leader: Under two consecutive contracts, CONSOR has performed 1200+ underwater inspections of bridges in LADOTD Districts statewide. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. Most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. CONSOR’s current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | | |
| 07/17 – Ongoing | SCDOT, Statewide Underwater Bridge Inspections, Team Leader Under five contracts, CONSOR has performed 500+ underwater bridge inspections throughout the state. Responsibilities included the investigation, evaluation, and recommendation of repairs to the bridges’ substructure units. Bridges ranged in size from small to river-crossing trusses and cable stays. Acoustic imaging was used Cooper and Wando Rivers bridges for scour repair recommendations. | | | |

16. Staff Experience:

Bridge Inspection / Underwater Inspection

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| Firm employed by CONSOR Engineers, LLC | | | | |
| Name | Andrew Young, PE | | Years of relevant experience with this employer | 17 |
| Title | Underwater Bridge Inspection Diver Team Leader | | Years of relevant experience with other employer(s) | 17 |
| Degree(s) / Years / Specialization | | | BS/2004/Civil Engineering | |
| Active registration number / state / expiration date | | | PE FL (70147) – 2/23/2022 | |
| Year registered | 2009 | Discipline | Professional Engineer/Civil | |
| Contract role(s) / brief description of responsibilities | | | Mr. Young fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver (Team Leader). | |
| Experience dates (mm/yy–mm/yy) | Mr. Young has 17 years of experience in providing NBIS routine, fracture critical, and underwater inspections for local governments, state departments of transportation, and federal agencies and is an ADCI-certified commercial diver. Courses: <ul style="list-style-type: none">• NHI 130055, “Safety Inspection of In-Service Bridges” – 01/03/2005• NHI 135046, “Stream Stability and Scour” – 06/24/2010• NHI 130053, “Bridge Inspection Refresher Training” – 03/27/2019• NHI 130091, “Underwater Bridge Inspection” – 06/15/2006• NHI 130078, “Fracture Critical Inspection Techniques for Steel Bridges” – 05/12/2009 Certifications: <ul style="list-style-type: none">• Surface-Supplied Air Diving Supervisor – ADCI #38105• FHWA-certified NHI Bridge Inspection Instructor (2008): NHI 130053, NHI 130078 | | | |
| 09/13 – Ongoing | LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Team Leader The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. Inspections have included challenging aspects specifically related to wildlife, fast currents, difficult access as well as culvert structures requiring penetration dives through extensive silt and debris build up. CONSOR’s most recently completed task order (2019) included 254 bridges in LADOTD District 2, which encompasses the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 Eastbound/Westbound bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 Eastbound/Westbound over the Bonnet Carre Spillway. CONSOR’s current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | | |
| 02/10 – 09/16 | FDOT, Districtwide Underwater Bridge Inspections, District Four, Project Manager/Team Leader: Underwater inspection of 154 bridges, 25 culverts, and 16 fender systems within District Four, incl. PONTIS Reports. | | | |

16. Staff Experience:

Bridge Inspection / Underwater Inspection

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| Firm employed by CONSOR Engineers, LLC | | | | |
| Name | Donald Roberts | | Years of relevant experience with this employer | 20 |
| Title | Underwater Bridge Inspection Diver Team Leader | | Years of relevant experience with other employer(s) | 0 |
| Degree(s) / Years / Specialization | | | N/A | |
| Active registration number / state / expiration date | | | N/A | |
| Year registered | N/A | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | | Mr. Roberts fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver (Team Leader) | |
| Experience dates (mm/yy–mm/yy) | Mr. Roberts serves as a team leader and senior inspector and has performed NBIS routine and underwater bridge inspections in saltwater and ocean inlets, as well as decompression dives up to 150 ft. deep. He is an ADCI-certified commercial diving supervisor with accomplished experience in underwater bridge inspection, having conducted more than 800 underwater bridge inspections during his career. Courses: <ul style="list-style-type: none">• NHI 130055, “Safety Inspection of In-Service Bridges” – 1/17/2013• NHI 130053, “Bridge Inspection Refresher Training” – 4/5/2018• NHI 130054, “Engineering Concepts for Bridge Inspectors” 9/14/2001• NHI 420018, “Fracture Critical Inspection Techniques for Steel Bridges” – 3/18/2016• NHI 130091, “Underwater Bridge Inspection” – 1/30/2015 Certifications: <ul style="list-style-type: none">• Surface-Supplied Air Diving Supervisor – ADCI #13509. | | | |
| 09/13 - Ongoing | LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Team Leader The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, which encompasses the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System | | | |
| 03/15 – Ongoing | Oklahoma DOT, Statewide Underwater Bridge Inspections, Underwater Bridge Inspector: Under six contracts since 2000, CONSOR has performed underwater bridge inspections for bridges located statewide. The inspection count for all contracts totals over 180 bridges. Two of the bridges crossed Lake Texoma and included 116 piers with an average depth of 70 ft., as well as bridges with depths of up to 100 ft. Each inspection included a detailed report with repair recommendations. | | | |

16. Staff Experience:

Bridge Inspection / Underwater Inspection

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| Firm employed by CONSOR Engineers, LLC | | | | |
| Name | James Talacek | | Years of relevant experience with this employer | 6 |
| Title | Underwater Bridge Inspection Diver Team Leader | | Years of relevant experience with other employer(s) | 25 |
| Degree(s) / Years / Specialization | | | N/A | |
| Active registration number / state / expiration date | | | N/A | |
| Year registered | N/A | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | | Mr. Talacek fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver (Team Leader). | |
| Experience dates (mm/yy–mm/yy) | Mr. Talacek has 30+ years of experience in underwater and topside structural inspection of timber, concrete, and steel, including bridges, culverts, ferry ramps, subsea platforms, vessels, docks, and offshore buoys. He has performed numerous underwater construction tasks. He is an NBIS-qualified team leader, knowledgeable in OSHA regulations, Navy Dive Standards, and ADCI best practices, and experienced in diving and dive supervision of surface-supplied, SCUBA, rebreather, and saturation systems, as well as recompression chamber operations and supervision. Courses: <ul style="list-style-type: none">• NHI 130055, “Safety Inspection of In-Service Bridges” – 7/22/1994• NHI 130053, “Bridge Inspection Refresher Training” – 8/23/2018• NHI 130091, “Underwater Bridge Inspection” – 10/14/2021 Certifications: <ul style="list-style-type: none">• Bell/Saturation Diver Supervisor – ADCI #44916 | | | |
| 09/13 – Ongoing | LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Team Leader The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System | | | |
| 12/11 – Ongoing | SCDOT, Statewide Underwater Bridge Inspection, Senior Inspector-Diver Responsibilities include the investigation, evaluation, and recommendation of repairs to the bridges’ wet substructure units. Bridges range in size from small to large, river-crossing trusses and cable stays. A complete report is prepared for each bridge detailing findings, rating the bridges in both NBIS and BMS, and stating recommended repairs. Acoustic imaging is used on bridges over the Cooper and Wando Rivers to document scour for repair recommendations. | | | |

16. Staff Experience:

Bridge Inspection / Underwater Inspection

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| Firm employed by CONSOR Engineers, LLC | | | | |
| Name | Andrew Cronin, PE | | Years of relevant experience with this employer | 3 |
| Title | Underwater Bridge Inspection Diver Team Leader | | Years of relevant experience with other employer(s) | 10 |
| Degree(s) / Years / Specialization | | | BS/2006/Civil Engineering; MS/2008/Civil Engineering | |
| Active registration number / state / expiration date | | | PE NY (089647) – 05/31/2022 | |
| Year registered | 2011 | Discipline | Professional Engineer/Civil | |
| Contract role(s) / brief description of responsibilities | | | Mr. Cronin fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver (Team Leader). | |
| Experience dates (mm/yy–mm/yy) | Mr. Cronin’s structural engineering experience includes project management, structural design and analysis, managing and leading above water and underwater inspection teams, technical report writing, attending pre-bid meetings, marketing and proposal writing, and regional office coordination. He performs NBIS routine, in-depth, fracture critical, and underwater bridge inspections nationwide. Courses: <ul style="list-style-type: none">• NHI 130056, “Safety Inspection of In-Service Bridges for Professional Engineers” – 06/21/2019• NHI 130091, “Underwater Bridge Inspection” – 04/11/2014• NHI 130101, “Introduction to Safety Inspection of In-Services Bridges” – 06/13/2019 Certifications: <ul style="list-style-type: none">• Surface-Supplied Air Diving Supervisor – ADCI #46510 | | | |
| 06/19 – Ongoing | LADOTD, Contract 4400009105: Statewide Underwater Bridge Inspections, Team Leader The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, which encompasses the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | | |
| 06/19 - Ongoing | Iowa DOT, Statewide Underwater Bridge Inspections, Team Leader CONSOR has performed five consecutive cycles of statewide underwater bridge inspections, totaling 200+ inspections. Bridges included timber, steel, and concrete construction crossing streams and rivers with swift currents, limited access, and zero visibility. Each inspection required an in-depth engineering report with photographs and CADD drawings illustrating defects. | | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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| Firm employed by CONSOR Engineers, LLC | | | |
| Name | Jeffrey Lane | | Years of relevant experience with this employer 20 |
| Title | Underwater Bridge Inspection Diver Team Leader | | Years of relevant experience with other employer(s) 9 |
| Degree(s) / Years / Specialization | | | N/A |
| Active registration number / state / expiration date | | | N/A |
| Year registered | N/A | Discipline | N/A |
| Contract role(s) / brief description of responsibilities | | | Mr. Lane fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver (Team Leader). |
| Experience dates (mm/yy–mm/yy) | <p>Jeffrey Lane serves as a diving supervisor and underwater inspector. A US Army-trained commercial diver, he specializes in underwater inspection, construction engineering inspection, repair and salvage. He served as a diving instructor and curriculum developer at the Naval Diving and Salvage Training Center.</p> <p>Courses:</p> <ul style="list-style-type: none"> • NHI 130055, "Safety Inspection of In-Service Bridges" – 04/19/2013 • NHI 130053, "Bridge Inspection Refresher Training" – 07/19/2018 • NHI 130091, "Underwater Bridge Inspection" – 10/14/2021 <p>Certifications:</p> <ul style="list-style-type: none"> • Surface-Supplied Air Diving Supervisor – ADCI #57321 | | |
| 1/17 – Ongoing | <p>LADOTD, Contract 4400009105: Statewide Underwater Bridge Inspections, Team Leader</p> <p>The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System.</p> | | |
| 06/13 | <p>LADOTD, H.005365.5: Underwater Acoustic Imaging for Bridge Inspection, Underwater Bridge Inspector As a subconsultant, CONSOR assisted in the performance of underwater acoustic imaging for the inspection of 100+ bridge piers throughout the state of Louisiana. CONSOR provided diver investigations of any anomalies that were found. The pier inspections included both sides of the piers and the upstream and downstream noses of the piers. The scans identified and located major damage or deterioration, such as corrosion, loss of section, or scour undermining. Equipment required for these scans included a multi axis, steered beam imaging and profiling remote sensing system.</p> | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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| Firm employed by: CONSOR Engineers, LLC | | | | |
| Name | Travis Becker, EIT | | Years of relevant experience with this employer | 5 |
| Title | Underwater Bridge Inspection Diver Team Leader | | Years of relevant experience with other employer(s) | 2 |
| Degree(s) / Years / Specialization | | | BS/2003/Electrical Engineering | |
| Active registration number / state / expiration date | | | EIT/0420070662/Virginia | |
| Year registered | N/A | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | | Mr. Becker fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver (Team Leader) | |
| Experience dates (mm/yy–mm/yy) | Mr. Becker serves as an inspector and dive technician for structural inspections nationwide. He has performed both topside and underwater inspections for the US Coast Guard and several state departments of transportation. His previous diving experience includes projects in Seattle, Washington as well as US Navy military service in Virginia Beach, Virginia and Santa Rita, Guam. Courses: <ul style="list-style-type: none">• NHI 130055, “Safety Inspection of In-Service Bridges” – 02/15/2019• NHI 130091, “Underwater Bridge Inspection” – 04/21/2017 Certifications: <ul style="list-style-type: none">• Surface-Supplied Air Diving Supervisor – ADCI #57379 | | | |
| 1/17 – Ongoing | LADOTD, Contract 4400009105: Statewide Underwater Bridge Inspections, Team Leader The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | | |
| 10/16 - Ongoing | TxDOT, Statewide Underwater Bridge Inspections, Underwater Bridge Inspector CONSOR is providing underwater bridge inspection and acoustic imaging statewide under a task order-based contract. Each bridge is inspected from two feet above the mean high tide waterline to the mudline. Each inspection requires a detailed engineering report that includes client-specific forms, channel cross-section sketch, follow-up action worksheet, elemental data inspection record, and inventory and defect photographs. Task orders have included the underwater inspection and acoustic imaging of on- and off-system bridges in the Houston, Paris, and Atlanta Districts. | | | |

16. Staff Experience:***Bridge Inspection / Underwater Inspection***

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|--|--|------------|---|---|
| Firm employed by: ECM Consultants | | | | |
| Name | Chris Capretto, P.E. | | Years of experience with this firm/employer | 5 |
| Title | Civil Engineer | | Years of experience with other firm(s)/employer(s) | 7 |
| Degree(s) / Years / Specialization | | | B.S / 2009 / Civil Engineering | |
| Active registration number / state / expiration date | | | PE (25864) – 9/30/2022 | |
| Year registered | 2014 | Discipline | Civil Engineering | |
| Contract role(s) / brief description of responsibilities | | | Mr. Capretto will provide Engineering for underwater bridge inspection services. He is FHWA-NHI certified for underwater Bridge Inspection. | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. | | | |
| 09/13-11/15 | LADOTD, Retainer Contract for Underwater Bridge Inspection Services, Statewide, LA: Mr. Capretto provided bridge inspection services under this five-year retainer contract. The scope of work included detailed inspection and preparation of reports involving elements and conditions rating and documentation of any significant deviations from as-built conditions for each inspection, as well as other recommendations for corrective measures and other pertinent data. Some notable bridge inspections include: <ul style="list-style-type: none">• US 90 Over West Pearl River Truss Steel Vertical Lift Bridge, St. Tammany Parish, LA• LA 56 Smith Ridge Cable-Stayed Moveable Truss Bridge Terrebonne Parish, LA• LA 1 Over Intracoastal Canal Plate Girder Bascule Bridge, Terrebonne Parish, LA | | | |
| 05/10-06/10 | LADOTD, Belle Terre Boulevard Bridge Inspection and Analysis, Covington, LA: Mr. Capretto served as Project Designer for site inspection, load rating analysis, and final report of a concrete and masonry arch bridge located in St. Tammany Parish. | | | |
| 06/08-06/09 | LADOTD, Bridge Inspections, Tammany Trace, St. Tammany Parish, LA: Mr. Capretto provided inspection services for 28 timber, steel and concrete bridges on railroad system converted to pedestrian and bicycle trail. He inspected damage and documented structural condition and necessary repairs. He prepared reports for each bridge, including description and photos of existing conditions, list of suggested improvements and repairs, and detailed CAD drawings. | | | |
| 04/16-10/16 | LADOTD, Rafe Mayer Bridges in Baker, LA: Mr. Capretto provided construction engineering support and contract administration for this project involving demolition and construction of two off-system bridges for LADOTD in East Baton Rouge Parish. This project included precast concrete pile driving, cast-in-place concrete bents, decks, approach slabs and asphaltic concrete roadway transition. He assisted the project manager in submittal management, coordination and communication with inspectors, resolution of field issues and site visits as directed by the project manager. | | | |
| 02/09-08/11 | LADOTD, US 190 Collins Bridge over LA 21 and Bogue Falaya River Feasibility Study, Regional Planning Commission, St. Tammany Parish, LA: Mr. Capretto served as assistant bridge engineer for the preparation of structural and geometric alternatives for replacement of a two-lane bridge with a four-lane bridge in an environmentally sensitive area. He performed site inspection and documentation of the existing bridge and surrounding area. | | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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| Firm employed by: CONSOR Engineers, LLC | | | |
| Name | Eric Bolek | | Years of relevant experience with this employer |
| Title | Underwater Bridge Inspector | | Years of relevant experience with other employer(s) |
| Degree(s) / Years / Specialization | BS/2013/Plant and Soil Science | | |
| Active registration number / state / expiration date | N/A | | |
| Year registered | N/A | Discipline | N/A |
| Contract role(s) / brief description of responsibilities | | Mr. Bolek fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver. | |
| Experience dates (mm/yy–mm/yy) | Courses: • NHI 130091, “Underwater Bridge Inspection” – 01/25/2019 Certifications: • Entry Level Tender/Diver – ADCI #52991 | | |
| 12/18 - Ongoing | LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Underwater Bridge Inspector The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. CONSOR’s current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | |
| 07/19 – 3/20 | IDIQ Contract for Ocean Engineering Services Nationwide: CEU Miami FY19 Major ATON Inspection – US Coast Guard – Dive Technician. CONSOR performed above and underwater scheduled structural inspections of 37 major ATON structures located throughout the southeastern United States, including the Atlantic coast, Lower Mississippi River, and Gulf of Mexico. The purpose of the inspection was to detect and report conditions requiring maintenance or repair before such conditions become safety, structural, or major maintenance problems for servicing Coast Guard personnel. They were performed to assess physical integrity and ensure each ATON meets their functional requirements; identify the need for corrective action before advanced deterioration necessitates major repairs; and initiate action for repair or replacement. Additionally, OSHA-compliance audits were performed to verify compliance with current federal regulations and identify the need for modifications regarding ladders, fall protection, and other safety features. | | |

16. Staff Experience:

Bridge Inspection / Underwater Inspection

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| Firm employed by CONSOR Engineers, LLC | | | | |
| Name | Grayson McDonald, EIT | | Years of relevant experience with this employer | 5 |
| Title | Underwater Bridge Inspector | | Years of relevant experience with other employer(s) | 0 |
| Degree(s) / Years / Specialization | | | BS/2016/Mechanical Engineering | |
| Active registration number / state / expiration date | | | ET/022616/Pennsylvania | |
| Year registered | N/A | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | | Mr. McDonald fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver. | |
| Experience dates (mm/yy–mm/yy) | Mr. McDonald serves as structural inspector and ADCI-certified diver for NBIS inspections nationwide. He has performed both topside and underwater inspections and prepared detailed engineering reports for various DOTs. Courses: <ul style="list-style-type: none">• PennDOT, “Bridge Safety Inspector Certification Course” – 03/15/2017• PennDOT, “Bridge Safety Inspector Refresher Course” – 10/1/2020• NHI 130078, “Fracture Critical Inspection Techniques for Steel Bridges” – 05/10/2019 Certifications: <ul style="list-style-type: none">• Entry Level Tender/Diver – ADCI #54989 | | | |
| 12/16 - Ongoing | LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Underwater Bridge Inspector. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. CONSOR’s current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | | |
| 12/16 – Ongoing | SCDOT, Statewide Underwater Bridge Inspection, Bridge Inspector/Diver Under five consecutive contracts, CONSOR has performed 500+ underwater bridge inspections statewide. Responsibilities include the investigation, evaluation, and recommendation of repairs to the bridges’ substructure units (located in the water). Bridges range in size from small, completely submerged box culverts to large, river-crossing trusses and cable stays. A complete report is prepared for each bridge detailing findings, rating the bridges in both NBIS and BMS, and stating recommended repairs. Acoustic imaging is used on bridges over the Cooper and Wando Rivers to document scour for repair recommendations | | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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| Firm employed by CONSOR Engineers, LLC | | | |
| Name | Stephen Rowley | | Years of relevant experience with this employer 3 |
| Title | Underwater Bridge Inspector | | Years of relevant experience with other employer(s) |
| Degree(s) / Years / Specialization | | N/A | |
| Active registration number / state / expiration date | | N/A | |
| Year registered | N/A | Discipline | N/A |
| Contract role(s) / brief description of responsibilities | | Mr. Rowley fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver. | |
| Experience dates (mm/yy–mm/yy) | Courses: <ul style="list-style-type: none"> • NHI 130055, “Safety Inspection of In-Service Bridges” – 8/27/2021 • NHI 130091, “Underwater Bridge Inspection” – 01/25/2019 Certifications: <ul style="list-style-type: none"> • Surface-Supplied Air Diver – ADCI #59633 | | |
| 07/18 - Ongoing | LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Underwater Bridge Inspector. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, which encompasses the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | |
| 07/18 – Ongoing | SCDOT, Statewide Underwater Bridge Inspection, Bridge Inspector/Diver Responsibilities include the investigation, evaluation, and recommendation of repairs to the bridges’ substructure units (located in the water). Bridges range in size from small, completely submerged box culverts to large, river-crossing trusses and cable stays. A complete report is prepared for each bridge detailing findings, rating the bridges in both NBIS and BMS, and stating recommended repairs. Acoustic imaging is used on bridges over the Cooper and Wando Rivers to document scour for repair recommendations | | |
| 09/18 – 10/18 | SCDOT, Hurricane Florence Emergency Inspections, Inspector/Diver CONSOR performed emergency inspections of structures located in northeastern South Carolina after Hurricane Florence in 2018. Historic amounts of rainfall significantly impacted five basin rivers that have 30 major bridge crossings including the Great Pee Dee River, Little Pee Dee River, Waccamaw River, Lynches River, and Black River. In addition to the major crossings, 340 bridges along minor routes were also impacted by regional flooding. | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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| Firm employed by CONSOR Engineers, LLC | | | |
| Name | Wesley Trescott | | Years of relevant experience with this employer |
| Title | Underwater Bridge Inspector | | Years of relevant experience with other employer(s) |
| Degree(s) / Years / Specialization | | N/A | |
| Active registration number / state / expiration date | | N/A | |
| Year registered | N/A | Discipline | N/A |
| Contract role(s) / brief description of responsibilities | | Mr. Trescott fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver. | |
| Experience dates (mm/yy–mm/yy) | Courses: <ul style="list-style-type: none"> • NHI 130055, “Safety Inspection of In-Service Bridges” – 8/6/2021 • NHI 130091, “Underwater Bridge Inspection” – 12/5/2019 Certifications: <ul style="list-style-type: none"> • Surface-Supplied Air Diving Supervisor – ADCI #58628 | | |
| 10/18 - Ongoing | LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Underwater Bridge Inspector. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, which encompasses the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | |
| 10/18 –Ongoing | SCDOT, Statewide Underwater Bridge Inspection, Bridge Inspector/Diver Responsibilities include the investigation, evaluation, and recommendation of repairs to the bridges’ substructure units (located in the water). Bridges range in size from small, completely submerged box culverts to large, river-crossing trusses and cable stays. A complete report is prepared for each bridge detailing findings, rating the bridges in both NBIS and BMS, and stating recommended repairs. Acoustic imaging is used on bridges over the Cooper and Wando Rivers to document scour for repair recommendations. | | |
| 06/19 - 03/20 | IDIQ Contract for Ocean Engineering Services Nationwide: CEU Miami FY19 Major ATON Inspection – US Coast Guard – Dive Technician. CONSOR performed above and underwater scheduled structural inspections of 37 major ATON structures located throughout the southeastern United States, including the Atlantic coast, Lower Mississippi River, and Gulf of Mexico. The purpose of the inspection was to detect and report conditions requiring maintenance or repair before such conditions become safety, structural, or major maintenance problems. | | |

16. Staff Experience:

Bridge Inspection / Underwater Inspection

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| Firm employed by CONSOR Engineers, LLC | | | | |
| Name | Colton Powell | | Years of relevant experience with this employer | 7 |
| Title | Underwater Bridge Inspector | | Years of relevant experience with other employer(s) | 0 |
| Degree(s) / Years / Specialization | | | N/A | |
| Active registration number / state / expiration date | | | N/A | |
| Year registered | N/A | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | | Mr. Powell fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver. | |
| Experience dates (mm/yy–mm/yy) | Courses: <ul style="list-style-type: none">• NHI 130055, “Safety Inspection of In-Service Bridges” – 6/18/2015• NHI 130053, “Bridge Inspection Refresher Training” – 4/8/2021• NHI 130091, “Underwater Bridge Inspection” – 2/17/2016 Certifications: <ul style="list-style-type: none">• Surface-Supplied Air Diving Supervisor – ADCI #59441 | | | |
| 4/15 – Ongoing | LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Underwater Bridge Inspector. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | | |
| 04/15 – Ongoing | SCDOT, Statewide Underwater Bridge Inspection, Bridge Inspector/Diver Responsibilities include the investigation, evaluation, and recommendation of repairs to the bridges’ wet substructure units. Bridges range from small to large, river-crossing trusses and cable stays. A complete report is prepared for each bridge detailing findings, rating the bridges in both NBIS and BMS, and stating recommended repairs. Acoustic imaging is used on bridges over the Cooper and Wando Rivers to document scour for repair recommendations. | | | |
| 04/15 – Ongoing | Mississippi DOT, Statewide Underwater Bridge Inspections, Underwater Bridge Inspector NBIS underwater inspections for 200+ bridges throughout the state. Underwater acoustic imaging and hydrographic surveying was performed on six bridges on the Mississippi and Pearl Rivers. Diving conditions included fast flow with debris and limited visibility. Structural conditions were documented with underwater photography. Non-destructive testing was used to accurately determine section loss of steel piles, and timber piles were inspected using a resistograph. | | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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| Firm employed by CONSOR Engineers, LLC | | | | |
| Name | Arthur LeForge | | Years of relevant experience with this employer | 3.5 |
| Title | Underwater Bridge Inspector | | Years of relevant experience with other employer(s) | 6 |
| Degree(s) / Years / Specialization | | | N/A | |
| Active registration number / state / expiration date | | | N/A | |
| Year registered | N/A | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | | Mr. LeForge fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver. | |
| Experience dates (mm/yy–mm/yy) | Courses • NHI 130091, “Underwater Bridge Inspection” – 01/25/2019 Certifications: • Surface-Supplied Air Dive Supervisor – ADCI #58342 | | | |
| 10/18 - Ongoing | LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Underwater Bridge Inspector. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | | |
| 06/19 – 03/20 | IDIQ Contract for Ocean Engineering Services Nationwide: CEU Miami FY19 Major ATON Inspection – US Coast Guard – Dive Technician CONSOR performed above and underwater scheduled structural inspections of 37 major ATON structures located throughout the southeastern United States, including the Atlantic coast, Lower Mississippi River, and Gulf of Mexico. The purpose of the inspection was to detect and report conditions requiring maintenance or repair before such conditions become safety, structural, or major maintenance problems for servicing Coast Guard personnel. They were performed to assess physical integrity and ensure each ATON meets their functional requirements; identify the need for corrective action before advanced deterioration necessitates major repairs; and initiate action for repair or replacement. Additionally, OSHA-compliance audits were performed to verify compliance with current federal regulations and identify the need for modifications regarding ladders, fall protection, and other safety features. | | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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| Firm employed by CONSOR Engineers, LLC | | | | | |
| Name | Matthew Ratliff | | | Years of relevant experience with this employer | 4 |
| Title | Underwater Bridge Inspector | | | Years of relevant experience with other employer(s) | 0 |
| Degree(s) / Years / Specialization | | | N/A | | |
| Active registration number / state / expiration date | | | N/A | | |
| Year registered | N/A | | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | | Mr. Ratliff fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver. | | |
| Experience dates (mm/yy–mm/yy) | Courses: <ul style="list-style-type: none">• NHI 130055, “Safety Inspection of In-service Bridges” – 8/6/2021• NHI 130078, “Fracture Critical Inspection Techniques for Steel Bridges” – 1/21/2022• NHI 130091, “Underwater Bridge Inspection” – 10/10/2014 Certifications: <ul style="list-style-type: none">• Surface-Supplied Air Dive Supervisor – ADCI #63277 | | | | |
| 07/19 – Ongoing | LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Underwater Bridge Inspector. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | | | |
| 07/19 – Ongoing | SCDOT, Statewide Underwater Bridge Inspection, Bridge Inspector/Diver Responsibilities include the investigation, evaluation, and recommendation of repairs to the bridges’ wet substructure units. Bridges range from small to large, river-crossing trusses and cable stays. A complete report is prepared for each bridge detailing findings, rating the bridges in both NBIS and BMS, and stating recommended repairs. Acoustic imaging is used on bridges over the Cooper and Wando Rivers to document scour for repair recommendations. | | | | |
| 07/19 – Ongoing | Mississippi DOT, Statewide Underwater Bridge Inspections, Bridge Inspector Diver NBIS underwater inspections for 200+ bridges throughout the state. Underwater acoustic imaging and hydrographic surveying was performed on six bridges on the Mississippi and Pearl Rivers. Diving conditions included fast flow with debris and limited visibility. Structural conditions were documented with underwater photography. Non-destructive testing was used to accurately determine section loss of steel piles, and timber piles were inspected using a resistograph. | | | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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| Firm employed by: CONSOR Engineers, LLC | | | |
| Name | Adam Smith | | Years of relevant experience with this employer |
| Title | Underwater Bridge Inspector | | Years of relevant experience with other employer(s) |
| Degree(s) / Years / Specialization | | N/A | |
| Active registration number / state / expiration date | | N/A | |
| Year registered | N/A | Discipline | N/A |
| Contract role(s) / brief description of responsibilities | | Mr. Smith fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver. | |
| Experience dates (mm/yy–mm/yy) | <p>Mr. Smith is an ADCI-certified inspector-diver at CONSOR. He performs above and below water NBIS bridge inspections of government-owned structures located throughout the East Coast region.</p> <p>Courses</p> <ul style="list-style-type: none"> • NHI 130091, “Underwater Bridge Inspection” – 01/25/2019 • NHI 130101, “Introduction to Safety Inspection of In-Service Bridges” – 05/10/2019 <p>Certifications:</p> <ul style="list-style-type: none"> • Entry Level Tender/Diver – ADCI #58799 | | |
| 01/19 - Ongoing | <p>LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Underwater Bridge Inspector. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System.</p> | | |
| 01/19 - Ongoing | <p>TxDOT, Statewide Underwater Bridge Inspections, Underwater Bridge Inspector</p> <p>CONSOR is providing underwater bridge inspection and acoustic imaging statewide under a task order-based contract. Each bridge is inspected from two feet above the mean high tide waterline to the mudline. Each inspection requires a detailed engineering report that includes client-specific forms, channel cross-section sketch, follow-up action worksheet, elemental data inspection record, and inventory and defect photographs. Task orders have included the underwater inspection and acoustic imaging of on- and off-system bridges in the Houston, Paris, and Atlanta Districts.</p> | | |
| 01/19 – Ongoing | <p>PennDOT, Underwater Bridge Inspections, Central Office (PACO) – Inspector/Diver</p> <p>CONSOR is providing NBIS underwater inspections for Pennsylvania DOT District 10’s 2018 underwater bridge inspections contract. Field work is conducted by engineer-divers and assistant inspectors who are Pennsylvania DOT-certified bridge safety inspectors.</p> | | |

16. Staff Experience:**Bridge Inspection**

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|---|--|--|--|-------------------|
| Firm employed by: ECM Consultants | | | | |
| Name | Benjamin Dow | | Years of experience with this firm/employer | 11 |
| Title | Bridge Inspector | | Years of experience with other firm(s)/employer(s) | 16 |
| Degree(s) / Years / Specialization | | | NHI Training Certification-Introduction to Safety Inspection of In-Service Bridges; NHI Certified-Safety Inspection of In-Service Bridges; ATSSA Traffic Control Flagger/Technician/Supervisor | |
| Active registration number / state / expiration date | | | N/A | |
| Year registered | N/A | | Discipline | Bridge Inspection |
| Contract role(s) / brief description of responsibilities | | | Benjamin will provide Bridge Inspection for this contract. | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. | | | |
| 05/14-12/16 | 4400003534 Retainer Contract for Underwater Bridge Inspection Services, LADOTD; Statewide, LA: Mr. Dow provided inspection services for approximately 100 bridges under this five-year retainer contract. Scope of work included detailed reports involving elements and conditions rating and includes documentation of any significant deviations from as-built conditions for each inspection, recommendations for rehabilitation/repair, as well as other pertinent data. Some notable bridge inspections include: LA 16 Over Amite River Moveable Bridge, Livingston Parish, LA; US 90 Over West Pearl River Truss Steel Vertical Lift Bridge, St. Tammany Parish, LA; US 90 Over West Middle River Cantilever Trusses Bridge, St. Tammany Parish, LA; Lapalco Blvd Over Harvey Canal Bascule Bridge, Jefferson Parish, LA; LA 56 Smith Ridge Cable-Stayed Moveable Truss Bridge Terrebonne Parish, LA | | | |
| 06/09-10/16 | Bayou Lafourche Bridge at Larose, LADOTD, Lafourche Parish, LA: Mr. Dow provided construction inspection for Bayou Lafourche Vertical Lift Bridge project. The scope of work involves construction inspection for the construction of a vertical lift bridge, including approach roadways and roadway modifications. This project includes roadway removal, excavation, grading, relocation and new drainage and utilities. This \$30 M project is the third largest ARRA funded transportation project in the state of Louisiana. | | | |
| 11/08-01/09 | Interim Inspection of 52 Off-System Bridges, LADOTD and City of New Orleans-DPW, Orleans Parish, LA: Mr. Dow served as Bridge Inspector for interim inspection of 52 Off-System Bridges in Orleans Parish. He was responsible for the following: review of previous inspection reports and construction drawings; interim inspections in accordance with AASHTO “Manual for Condition Evaluation of Bridges”; and documentation of all conditions found in accordance with LA DOTD “Recording and Coding Guide for Structure Inventory and Appraisal of the State’s Bridges.” | | | |

16. Staff Experience:**Bridge Inspection**

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| Firm employed by: ECM Consultants | | | | |
| Name | Kyle Kessler, P.E. | | Years of relevant experience with this employer | 1 |
| Title | Junior Structural Engineer | | Years of relevant experience with other employer(s) | 5 |
| Degree(s) / Years / Specialization | | | B.S. / 2015 / Civil Engineering | |
| Active registration number / state / expiration date | | | PE LA 43807 / 3-2022 | |
| Year registered | 2019 | Discipline | Civil Engineering | |
| Contract role(s) / brief description of responsibilities | | | <p>Kyle is a registered professional Civil Engineer with more than 6 years of engineering experience in design and construction administration of roads & bridges and drainage system. His experience includes project coordination, design and preparation of plans, specifications, and estimates (PS&E) for roadway rehabilitation, drainage repair and enhancements, bridges, pump station, and foundations for various structures. His duties and responsibilities for construction administration services included, site inspections, submittal reviews, responding to RFIs, review of change order requests and attending progress meetings. He is certified FHWA- NHI-130056 Safety Inspector In-service Bridges for Engineers</p> | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | | |
| 08/20- On-going | <p>LADOT, West Shore Lake Pontchartrain Flood Risk Reduction Project Segments WSLP 102 and 106, St. Charles Parish, LA Junior Structural Engineer. The purpose of this project is to construct a 100-year level flood risk reduction system for the residents of the three parishes. The WSLP 102 and WSLP 106 of approximately 2 miles, is a part of 18.5 miles long West Shore Lake Pontchartrain project at its east approach. The salient features of this contract are earthen Levees, T-walls, and a Drainage Structure in the Montz canal with four (4) stainless steel sluice gates. The flood mitigation configuration is such that a portion of T-wall construction in this reach crosses the existing I-10 alignment and must be constructed under the I-10 east bound and west bound bridges. The scope of work of the WSLP 102 & 106 contracts includes engineering design, preparation of PS&E for all civil, structural, mechanical, electrical, and geotechnical engineering considerations. Mr. Kessler performing structural modelling and design computations for Flood walls, and gated drainage structure in Montz canal. Estimated Construction Cost: \$118 Million</p> | | | |

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| 2019 | LADOTD, Causeway/Earhart Interchange, Jefferson Parish, LA: Assistant Civil/Structural Engineer. This project's scope included adding an interchange between Causeway Blvd. and the Earhart Expressway. Existing bridges were to be modified with additional lanes and new ramps were to be constructed. Mr. Kessler was responsible for review of structural plans and quantity take-offs. |
| 2018 | ALDOT, Wolf Bay Bridge Orange Beach, AL: Project Engineer. This project's scope included adding a new high-rise bridge , approximately 1 mile long, across Wolf Bay in Alabama. Mr. Kessler served as a Design Civil/Structural Engineer for this project involving bridge design including concrete girder design, concrete barrier design, concrete bent cap design, concrete deck design, preparing girder camber charts, preparing roadway super elevation charts, review of general arrangement and structural plans. |
| 2018-2019 | LADOTD, West Roadway Drainage Improvements, New Orleans, LA: Project Engineer. This project included repairs to the drainage system underneath a roadway section that frequently flooded. Scope of work included removal of the existing pavement, installation of new drainpipes on aggregate bedding and new drainage structures including outfall structure. New roadway section included scarifying, grading, and compacting aggregate base including additional base material, and new asphaltic concrete pavement. Mr. Kessler performed design and prepared plans, specifications, and quantity/cost estimates. During the construction phase, Mr. Kessler provided project oversight including, site visits, review, and approval of submittals, RFIs and change orders etc. as construction phase services. |
| 2017-2018 | LADOTD, Citrus Lakefront Drainage Improvements, New Orleans, LA: Project Engineer. This project scope included improvement to the drainage between the existing Lakefront Levee and the Norfolk Southern Railroad. Existing catch basins were located and raised, new outfalls were installed underneath rip rap, existing drainage pipes were repaired with new resin liner, and surrounding area was regraded to promote better drainage. Mr. Kessler performed design, and prepared plans, specifications, and quantity/cost estimates. During the construction phase, Mr. Kessler provided construction administration including site inspections, review of submittal/RFI/bid/change orders. |

16. Staff Experience:**Bridge Inspection**

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| Firm employed by: ECM Consultants | | | |
| Name | David Waller | | Years of experience with this firm/employer 7 |
| Title | Bridge Inspector | | Years of experience with other firm(s)/employer(s) 15 |
| Degree(s) / Years / Specialization | | FWHA-NHI-130055 Safety Inspection of In-Services Bridges; LADOTD Certified Structural Concrete Inspector; Asphaltic Paving; Embankment and Base Course Inspector; and Portland Cement Concrete Paving Inspector; Work Zone Traffic Control Flagger/Technician/Supervisor | |
| Active registration number / state / expiration date | | | |
| Year registered | NA | Discipline | NA |
| Contract role(s) / brief description of responsibilities | | Mr. Waller will serve as a Bridge Inspector for this contract. | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. | | |
| 06/18 on-going | LADOTD, S.P. H.012420.6 I-110 Interchange Modifications @ Terrace, Baton Rouge: Mr. Waller is providing construction inspection services for this \$8.80 million I-110 Terrace Ave Interchange Project that will provide connectivity from I-110 southbound to the existing I-10 eastbound at the Washington Street exit. The project consists of an exit ramp that will be constructed on the left side of I-110 southbound allowing traffic to exit onto Terrace Ave. Nineteen drill shafts will be utilized. The production shafts consist of 6-24” shafts, 2-36” shafts, 2-48” shafts and 9-96” shafts ranging in length from 55’ to 102’. Additionally, this project will also include a widening of the I-110 southbound roadway span, installation of new signage and the installation of poles with new camera equipment to monitor traffic. | | |
| 06/18 on-going | LADOTD, S.P. No. 009250, I-10: Highland to LA 73 Design-Build Project, East Baton Rouge/Ascension Parish, LA: Mr. Waller is providing construction inspection services for this \$72 million design-build project to widen I-10 from four to six lanes in both east and westbound directions, bridge modifications including replacing I-10 bridge over Highland Road, widening and rehabilitating I-10 bridge over Bayou Manchac, and rehabilitating LA 928 over I-10, and replacing I-10 over LA 73. | | |
| 06/18 on-going | LADOTD, State Project No. H.010661.6-2 N. Flannery/Firewood/Cloverland Bridges, East Baton Rouge Parish, LA: Mr. Waller is providing construction inspection services for the replacement of three bridges in East Baton Rouge Parish. He is responsible for inspecting contractors works and gathering totals on materials used, manpower and equipment and filling out a daily report | | |

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| 02/14-09/16 | LADOTD, S.P. No. H. 0106059: Rafe Meyer Bridges in Baker, LA: Mr. Waller provided construction inspection for this project involving demolition and construction of two off-system bridges for LADOTD in East Baton Rouge Parish. This project includes precast concrete pile driving, cast-in-place concrete bents, decks, approach slabs and asphaltic concrete roadway transition. He provided inspection for asphalt paving as a LADOTD certified inspector in addition to other inspection services. |
| 02/08-08/10 | LADOTD, S.P. No. 817-08-0023: Joor Road; Baton Rouge, LA: Mr. Waller provided construction inspection services for this project that involved the widening of Joor Road from two lanes to five lanes. The project included asphalt concrete paving, Portland concrete cement paving, drainage, sewer, and utility relocations. He served as the primary construction inspector and safety person on site, prepared work reports, estimated quantities, ensured smooth and efficient operations of technician and/or consultant personnel. |
| 03/09-08/11 | LADOTD, S.P. No. 817-41-0008: O'Neal Lane; Baton Rouge, LA: Mr. Waller provided construction inspection services for this project that involved construction of three miles of new concrete cement roadway. The project included relocation of sewer and new tie-ins, drainage, and utilities relocation. He served as the primary construction inspector and safety person on site, prepared work reports, estimated quantities, ensured smooth and efficient operations of technician and/or consultant personnel, etc. |
| 02/10-04/11 | LADOTD, S.P. No. 737-99-1059: I-12 Ramp Meters; Baton Rouge, LA: Mr. Waller provided construction inspection services for this project that involved the installation of ramp meters along I-12. He served as the primary construction inspector and safety person on site, prepared work reports and estimated quantities. |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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|--|--|------------|--|----|
| Firm employed by: CONSOR Engineers, LLC | | | | |
| Name | Andrew Cronin, PE | | Years of relevant experience with this employer | 3 |
| Title | Underwater Bridge Inspection Diver Team Leader | | Years of relevant experience with other employer(s) | 10 |
| Degree(s) / Years / Specialization | | | BS/2006/Civil Engineering; MS/2008/Civil Engineering | |
| Active registration number / state / expiration date | | | NY (089647) – 05/31/2022 | |
| Year registered | 2011 | Discipline | Professional Engineer/Civil | |
| Contract role(s) / brief description of responsibilities | | | Mr. Cronin fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver (Team Leader). | |
| Experience dates (mm/yy–mm/yy) | Mr. Cronin’s structural engineering experience includes project management, structural design and analysis, managing and leading above water and underwater inspection teams, technical report writing, attending pre-bid meetings, marketing and proposal writing, and regional office coordination. He performs NBIS routine, in-depth, fracture critical, and underwater bridge inspections nationwide. Courses: <ul style="list-style-type: none">• NHI 130056, “Safety Inspection of In-Service Bridges for Professional Engineers” – 06/21/2019• NHI 130091, “Underwater Bridge Inspection” – 04/11/2014• NHI 130101, “Introduction to Safety Inspection of In-Services Bridges” – 06/13/2019 Certifications: <ul style="list-style-type: none">• Surface-Supplied Air Diving Supervisor – ADCI #46510 | | | |
| 06/19 – Ongoing | LADOTD, Contract 4400009105: Statewide Underwater Bridge Inspections, Team Leader The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, which encompasses the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | | |
| 06/19 – Ongoing | Iowa DOT, Statewide Underwater Bridge Inspections, Team Leader CONSOR has performed five consecutive cycles of statewide underwater bridge inspections, totaling 200+ inspections. Bridges included timber, steel, and concrete construction crossing streams and rivers with swift currents, limited access, and zero visibility. Each inspection required an in-depth engineering report with photographs and CADD drawings illustrating defects. | | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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|---|---|-------------------|--|----|
| Firm employed by: CONSOR Engineers, LLC | | | | |
| Name | Jeffrey Lane | | Years of relevant experience with this employer | 20 |
| Title | Underwater Bridge Inspection Diver Team Leader | | Years of relevant experience with other employer(s) | 9 |
| Degree(s) / Years / Specialization | | | N/A | |
| Active registration number / state / expiration date | | | N/A | |
| Year registered | N/A | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | | Mr. Lane fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver (Team Leader). | |
| Experience dates (mm/yy–mm/yy) | <p>Jeffrey Lane serves as a diving supervisor and underwater inspector. A US Army-trained commercial diver, he specializes in underwater inspection, construction engineering inspection, repair and salvage. He served as a diving instructor and curriculum developer at the Naval Diving and Salvage Training Center.</p> <p>Courses:</p> <ul style="list-style-type: none"> • NHI 130055, "Safety Inspection of In-Service Bridges" – 04/19/2013 • NHI 130053, "Bridge Inspection Refresher Training" – 07/19/2018 • NHI 130091, "Underwater Bridge Inspection" – 10/14/2021 <p>Certifications:</p> <ul style="list-style-type: none"> • Surface-Supplied Air Diving Supervisor – ADCI #57321 | | | |
| 1/17 – Ongoing | <p>LADOTD, Contract 4400009105: Statewide Underwater Bridge Inspections, Team Leader</p> <p>The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System.</p> | | | |
| 06/13 | <p>LADOTD, H.005365.5: Underwater Acoustic Imaging for Bridge Inspection, Underwater Bridge Inspector As a subconsultant, CONSOR assisted in the performance of underwater acoustic imaging for the inspection of 100+ bridge piers throughout the state of Louisiana. CONSOR provided diver investigations of any anomalies that were found. The pier inspections included both sides of the piers and the upstream and downstream noses of the piers. The scans identified and located major damage or deterioration, such as corrosion, loss of section, or scour undermining. Equipment required for these scans included a multi axis, steered beam imaging and profiling remote sensing system.</p> | | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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|--|--|------------|---|---|
| Firm employed by: CONSOR Engineers, LLC | | | | |
| Name | Travis Becker, EIT | | Years of relevant experience with this employer | 5 |
| Title | Underwater Bridge Inspection Diver Team Leader | | Years of relevant experience with other employer(s) | 2 |
| Degree(s) / Years / Specialization | | | BS/2003/Electrical Engineering | |
| Active registration number / state / expiration date | | | EIT/0420070662/Virginia | |
| Year registered | N/A | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | | Mr. Becker fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver (Team Leader) | |
| Experience dates (mm/yy–mm/yy) | Mr. Becker serves as an inspector and dive technician for structural inspections nationwide. He has performed both topside and underwater inspections for the US Coast Guard and several state departments of transportation. His previous diving experience includes projects in Seattle, Washington as well as US Navy military service in Virginia Beach, Virginia and Santa Rita, Guam. Courses: <ul style="list-style-type: none">• NHI 130055, “Safety Inspection of In-Service Bridges” – 02/15/2019• NHI 130091, “Underwater Bridge Inspection” – 04/21/2017 Certifications: <ul style="list-style-type: none">• Surface-Supplied Air Diving Supervisor – ADCI #57379 | | | |
| 1/17 – Ongoing | LADOTD, Contract 4400009105: Statewide Underwater Bridge Inspections, Team Leader The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | | |
| 10/16 - Ongoing | TxDOT, Statewide Underwater Bridge Inspections, Underwater Bridge Inspector CONSOR is providing underwater bridge inspection and acoustic imaging statewide under a task order-based contract. Each bridge is inspected from two feet above the mean high tide waterline to the mudline. Each inspection requires a detailed engineering report that includes client-specific forms, channel cross-section sketch, follow-up action worksheet, elemental data inspection record, and inventory and defect photographs. Task orders have included the underwater inspection and acoustic imaging of on- and off-system bridges in the Houston, Paris, and Atlanta Districts. | | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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|---|---|---|--|
| Firm employed by: CONSOR Engineers, LLC | | | |
| Name | Eric Bolek | | Years of relevant experience with this employer |
| Title | Underwater Bridge Inspector | | Years of relevant experience with other employer(s) |
| Degree(s) / Years / Specialization | BS/2013/Plant and Soil Science | | |
| Active registration number / state / expiration date | N/A | | |
| Year registered | N/A | Discipline | N/A |
| Contract role(s) / brief description of responsibilities | | Mr. Bolek fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver. | |
| Experience dates (mm/yy–mm/yy) | Courses: • NHI 130091, “Underwater Bridge Inspection” – 01/25/2019 Certifications: • Entry Level Tender/Diver – ADCI #52991 | | |
| 12/18 - Ongoing | LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Underwater Bridge Inspector The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. CONSOR’s current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | |
| 07/19 – 3/20 | IDIQ Contract for Ocean Engineering Services Nationwide: CEU Miami FY19 Major ATON Inspection – US Coast Guard – Dive Technician. CONSOR performed above and underwater scheduled structural inspections of 37 major ATON structures located throughout the southeastern United States, including the Atlantic coast, Lower Mississippi River, and Gulf of Mexico. The purpose of the inspection was to detect and report conditions requiring maintenance or repair before such conditions become safety, structural, or major maintenance problems for servicing Coast Guard personnel. They were performed to assess physical integrity and ensure each ATON meets their functional requirements; identify the need for corrective action before advanced deterioration necessitates major repairs; and initiate action for repair or replacement. Additionally, OSHA-compliance audits were performed to verify compliance with current federal regulations and identify the need for modifications regarding ladders, fall protection, and other safety features. | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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| Firm employed by: CONSOR Engineers, LLC | | | | |
| Name | Grayson McDonald, EIT | | Years of relevant experience with this employer | 5 |
| Title | Underwater Bridge Inspector | | Years of relevant experience with other employer(s) | 0 |
| Degree(s) / Years / Specialization | | BS/2016/Mechanical Engineering | | |
| Active registration number / state / expiration date | | ET/022616/Pennsylvania | | |
| Year registered | N/A | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | Mr. McDonald fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver. | | |
| Experience dates (mm/yy–mm/yy) | <p>Mr. McDonald serves as structural inspector and ADCI-certified diver for NBIS inspections nationwide. He has performed both topside and underwater inspections and prepared detailed engineering reports for various DOTs.</p> <p>Courses:</p> <ul style="list-style-type: none"> • PennDOT, “Bridge Safety Inspector Certification Course” – 03/15/2017 • PennDOT, “Bridge Safety Inspector Refresher Course” – 10/1/2020 • NHI 130078, “Fracture Critical Inspection Techniques for Steel Bridges” – 05/10/2019 <p>Certifications:</p> <ul style="list-style-type: none"> • Entry Level Tender/Diver – ADCI #54989 | | | |
| 12/16 - Ongoing | <p>LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Underwater Bridge Inspector. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. CONSOR’s current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System.</p> | | | |
| 12/16 – Ongoing | <p>SCDOT, Statewide Underwater Bridge Inspection, Bridge Inspector/Diver</p> <p>Under five consecutive contracts, CONSOR has performed 500+ underwater bridge inspections statewide. Responsibilities include the investigation, evaluation, and recommendation of repairs to the bridges’ substructure units (located in the water). Bridges range in size from small, completely submerged box culverts to large, river-crossing trusses and cable stays. A complete report is prepared for each bridge detailing findings, rating the bridges in both NBIS and BMS, and stating recommended repairs. Acoustic imaging is used on bridges over the Cooper and Wando Rivers to document scour for repair recommendations</p> | | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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| Firm employed by: CONSOR Engineers, LLC | | | |
| Name | Stephen Rowley | | Years of relevant experience with this employer |
| Title | Underwater Bridge Inspector | | Years of relevant experience with other employer(s) |
| Degree(s) / Years / Specialization | | N/A | |
| Active registration number / state / expiration date | | N/A | |
| Year registered | N/A | Discipline | N/A |
| Contract role(s) / brief description of responsibilities | | Mr. Rowley fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver. | |
| Experience dates (mm/yy–mm/yy) | Courses: <ul style="list-style-type: none"> • NHI 130055, “Safety Inspection of In-Service Bridges” – 8/27/2021 • NHI 130091, “Underwater Bridge Inspection” – 01/25/2019 Certifications: <ul style="list-style-type: none"> • Surface-Supplied Air Diver – ADCI #59633 | | |
| 07/18 - Ongoing | LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Underwater Bridge Inspector. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, which encompasses the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | |
| 07/18 – Ongoing | SCDOT, Statewide Underwater Bridge Inspection, Bridge Inspector/Diver Responsibilities include the investigation, evaluation, and recommendation of repairs to the bridges’ substructure units (located in the water). Bridges range in size from small, completely submerged box culverts to large, river-crossing trusses and cable stays. A complete report is prepared for each bridge detailing findings, rating the bridges in both NBIS and BMS, and stating recommended repairs. Acoustic imaging is used on bridges over the Cooper and Wando Rivers to document scour for repair recommendations | | |
| 09/18 – 10/18 | SCDOT, Hurricane Florence Emergency Inspections, Inspector/Diver CONSOR performed emergency inspections of structures located in northeastern South Carolina after Hurricane Florence in 2018. Historic amounts of rainfall significantly impacted five basin rivers that have 30 major bridge crossings including the Great Pee Dee River, Little Pee Dee River, Waccamaw River, Lynches River, and Black River. In addition to the major crossings, 340 bridges along minor routes were also impacted by regional flooding. | | |

16. Staff Experience:

Bridge Inspection / Underwater Inspection

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| Firm employed by: CONSOR Engineers, LLC | | | |
| Name | Wesley Trescott | | Years of relevant experience with this employer |
| Title | Underwater Bridge Inspector | | Years of relevant experience with other employer(s) |
| Degree(s) / Years / Specialization | | N/A | |
| Active registration number / state / expiration date | | N/A | |
| Year registered | N/A | Discipline | N/A |
| Contract role(s) / brief description of responsibilities | | Mr. Trescott fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver. | |
| Experience dates (mm/yy–mm/yy) | Courses: <ul style="list-style-type: none"> • NHI 130055, “Safety Inspection of In-Service Bridges” – 8/6/2021 • NHI 130091, “Underwater Bridge Inspection” – 12/5/2019 Certifications: <ul style="list-style-type: none"> • Surface-Supplied Air Diving Supervisor – ADCI #58628 | | |
| 10/18 - Ongoing | LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Underwater Bridge Inspector. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, which encompasses the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | |
| 10/18 –Ongoing | SCDOT, Statewide Underwater Bridge Inspection, Bridge Inspector/Diver Responsibilities include the investigation, evaluation, and recommendation of repairs to the bridges’ substructure units (located in the water). Bridges range in size from small, completely submerged box culverts to large, river-crossing trusses and cable stays. A complete report is prepared for each bridge detailing findings, rating the bridges in both NBIS and BMS, and stating recommended repairs. Acoustic imaging is used on bridges over the Cooper and Wando Rivers to document scour for repair recommendations. | | |
| 06/19 - 03/20 | IDIQ Contract for Ocean Engineering Services Nationwide: CEU Miami FY19 Major ATON Inspection – US Coast Guard – Dive Technician. CONSOR performed above and underwater scheduled structural inspections of 37 major ATON structures located throughout the southeastern United States, including the Atlantic coast, Lower Mississippi River, and Gulf of Mexico. The purpose of the inspection was to detect and report conditions requiring maintenance or repair before such conditions become safety, structural, or major maintenance problems. | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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| Firm employed by CONSOR Engineers, LLC | | | | |
| Name | Colton Powell | | Years of relevant experience with this employer | 7 |
| Title | Underwater Bridge Inspector | | Years of relevant experience with other employer(s) | 0 |
| Degree(s) / Years / Specialization | | | N/A | |
| Active registration number / state / expiration date | | | N/A | |
| Year registered | N/A | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | | Mr. Powell fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver. | |
| Experience dates (mm/yy–mm/yy) | Courses: <ul style="list-style-type: none">• NHI 130055, “Safety Inspection of In-Service Bridges” – 6/18/2015• NHI 130053, “Bridge Inspection Refresher Training” – 4/8/2021• NHI 130091, “Underwater Bridge Inspection” – 2/17/2016 Certifications: <ul style="list-style-type: none">• Surface-Supplied Air Diving Supervisor – ADCI #59441 | | | |
| 4/15 – Ongoing | LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Underwater Bridge Inspector. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | | |
| 04/15 – Ongoing | SCDOT, Statewide Underwater Bridge Inspection, Bridge Inspector/Diver Responsibilities include the investigation, evaluation, and recommendation of repairs to the bridges’ wet substructure units. Bridges range from small to large, river-crossing trusses and cable stays. A complete report is prepared for each bridge detailing findings, rating the bridges in both NBIS and BMS, and stating recommended repairs. Acoustic imaging is used on bridges over the Cooper and Wando Rivers to document scour for repair recommendations. | | | |
| 04/15 – Ongoing | Mississippi DOT, Statewide Underwater Bridge Inspections, Underwater Bridge Inspector NBIS underwater inspections for 200+ bridges throughout the state. Underwater acoustic imaging and hydrographic surveying was performed on six bridges on the Mississippi and Pearl Rivers. Diving conditions included fast flow with debris and limited visibility. Structural conditions were documented with underwater photography. Non-destructive testing was used to accurately determine section loss of steel piles, and timber piles were inspected using a resistograph. | | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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| Firm employed by CONSOR Engineers, LLC | | | | | |
| Name | Arthur LeForge | | | Years of relevant experience with this employer | 3.5 |
| Title | Underwater Bridge Inspector | | | Years of relevant experience with other employer(s) | 6 |
| Degree(s) / Years / Specialization | | | N/A | | |
| Active registration number / state / expiration date | | | N/A | | |
| Year registered | N/A | | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | | Mr. LeForge fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver. | | |
| Experience dates (mm/yy–mm/yy) | | Courses • NHI 130091, “Underwater Bridge Inspection” – 01/25/2019 Certifications: • Surface-Supplied Air Dive Supervisor – ADCI #58342 | | | |
| 10/18 - Ongoing | | LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Underwater Bridge Inspector. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | | |
| 06/19 – 03/20 | | IDIQ Contract for Ocean Engineering Services Nationwide: CEU Miami FY19 Major ATON Inspection – US Coast Guard – Dive Technician CONSOR performed above and underwater scheduled structural inspections of 37 major ATON structures located throughout the southeastern United States, including the Atlantic coast, Lower Mississippi River, and Gulf of Mexico. The purpose of the inspection was to detect and report conditions requiring maintenance or repair before such conditions become safety, structural, or major maintenance problems for servicing Coast Guard personnel. They were performed to assess physical integrity and ensure each ATON meets their functional requirements; identify the need for corrective action before advanced deterioration necessitates major repairs; and initiate action for repair or replacement. Additionally, OSHA-compliance audits were performed to verify compliance with current federal regulations and identify the need for modifications regarding ladders, fall protection, and other safety features. | | | |

16. Staff Experience:**Bridge Inspection / Underwater Inspection**

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|--|-----------------------------|---|---|---|---|
| Firm employed by CONSOR Engineers, LLC | | | | | |
| Name | Matthew Ratliff | | | Years of relevant experience with this employer | 4 |
| Title | Underwater Bridge Inspector | | | Years of relevant experience with other employer(s) | 0 |
| Degree(s) / Years / Specialization | | | N/A | | |
| Active registration number / state / expiration date | | | N/A | | |
| Year registered | N/A | | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | | Mr. Ratliff fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver. | | |
| Experience dates (mm/yy–mm/yy) | | Courses: <ul style="list-style-type: none">• NHI 130055, “Safety Inspection of In-service Bridges” – 8/6/2021• NHI 130078, “Fracture Critical Inspection Techniques for Steel Bridges” – 1/21/2022• NHI 130091, “Underwater Bridge Inspection” – 10/10/2014 Certifications: <ul style="list-style-type: none">• Surface-Supplied Air Dive Supervisor – ADCI #63277 | | | |
| 07/19 – Ongoing | | LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Underwater Bridge Inspector. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected have included I-10 bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 over the Bonnet Carre Spillway. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System. | | | |
| 07/19 – Ongoing | | SCDOT, Statewide Underwater Bridge Inspection, Bridge Inspector/Diver Responsibilities include the investigation, evaluation, and recommendation of repairs to the bridges’ wet substructure units. Bridges range from small to large, river-crossing trusses and cable stays. A complete report is prepared for each bridge detailing findings, rating the bridges in both NBIS and BMS, and stating recommended repairs. Acoustic imaging is used on bridges over the Cooper and Wando Rivers to document scour for repair recommendations. | | | |
| 07/19 – Ongoing | | Mississippi DOT, Statewide Underwater Bridge Inspections, Bridge Inspector Diver NBIS underwater inspections for 200+ bridges throughout the state. Underwater acoustic imaging and hydrographic surveying was performed on six bridges on the Mississippi and Pearl Rivers. Diving conditions included fast flow with debris and limited visibility. Structural conditions were documented with underwater photography. Non-destructive testing was used to accurately determine section loss of steel piles, and timber piles were inspected using a resistograph. | | | |

16. Staff Experience:***Bridge Inspection / Underwater Inspection***

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| Firm employed by CONSOR Engineers, LLC | | | |
| Name | Adam Smith | | Years of relevant experience with this employer 3 |
| Title | Underwater Bridge Inspector | | Years of relevant experience with other employer(s) |
| Degree(s) / Years / Specialization | | N/A | |
| Active registration number / state / expiration date | | N/A | |
| Year registered | N/A | Discipline | N/A |
| Contract role(s) / brief description of responsibilities | | Mr. Smith fulfills the minimum personnel requirement for an Underwater Bridge Inspection Diver. | |
| Experience dates (mm/yy–mm/yy) | <p>Mr. Smith is an ADCI-certified inspector-diver at CONSOR. He performs above and below water NBIS bridge inspections of government-owned structures located throughout the East Coast region.</p> <p>Courses</p> <ul style="list-style-type: none"> • NHI 130091, “Underwater Bridge Inspection” – 01/25/2019 • NHI 130101, “Introduction to Safety Inspection of In-Service Bridges” – 05/10/2019 <p>Certifications:</p> <ul style="list-style-type: none"> • Entry Level Tender/Diver – ADCI #58799 | | |
| 01/19 - Ongoing | <p>LADOTD, Contract 4400003531 & 4400009105: Statewide Underwater Bridge Inspections, Underwater Bridge Inspector. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. The most recently completed task order (2019) included 254 bridges in LADOTD District 2, including the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The current task order, ending in June 2022, has completed 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62. Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System.</p> | | |
| 01/19 - Ongoing | <p>TxDOT, Statewide Underwater Bridge Inspections, Underwater Bridge Inspector</p> <p>CONSOR is providing underwater bridge inspection and acoustic imaging statewide under a task order-based contract. Each bridge is inspected from two feet above the mean high tide waterline to the mudline. Each inspection requires a detailed engineering report that includes client-specific forms, channel cross-section sketch, follow-up action worksheet, elemental data inspection record, and inventory and defect photographs. Task orders have included the underwater inspection and acoustic imaging of on- and off-system bridges in the Houston, Paris, and Atlanta Districts.</p> | | |
| 01/19 – Ongoing | <p>PennDOT, Underwater Bridge Inspections, Central Office (PACO) – Inspector/Diver</p> <p>CONSOR is providing NBIS underwater inspections for Pennsylvania DOT District 10’s 2018 underwater bridge inspections contract. Field work is conducted by engineer-divers and assistant inspectors who are Pennsylvania DOT-certified bridge safety inspectors.</p> | | |

16. Staff Experience:**UT Inspection & Paint Inspection**

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| Firm employed by KTA-Tator, Inc. | | | | |
| Name | Robert S. Lanterman | | Years of relevant experience with this employer | 16 |
| Title | Supervisor-Other | | Years of relevant experience with other employer(s) | 7 |
| Degree(s) / Years / Specialization | | | BE/1999/Chemical Engineering | |
| Active registration number / state / expiration date | | | SSPC Certified Protective Coatings Specialist (#2015-820-136, expiration 12/31/2023); NACE Certified Coatings Inspector Level 3 (#13505, expiration 05/23/2022) | |
| Year registered | NA | Discipline | Paint Inspection | |
| Contract role(s) / brief description of responsibilities | | | Coatings Consultant – coating condition assessment services / Paint Inspection | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | | |
| 09/21 - Present | IWGO Bridge, Baton Rouge, LA – As a subconsultant to TRC, Mr. Lanterman is performing a coating condition assessment and assisting with the development of surface preparation, coating application, and environmental/ worker protection and containment specifications/drawing notes for the rehabilitation of this bridge. | | | |
| 07/20 – 08/20 | Denison Harvard Bridge, Cleveland, OH – As a subconsultant to Michael Baker International, Mr. Lanterman performed a coating condition assessment, supervised coatings laboratory testing, developed a maintenance painting strategy, provided recommendations, and developed an opinion of probable costs for the maintenance painting of this bridge. | | | |
| 02/20 – 05/20 | Jackson Street (Red River) Lift Bridge, Alexandria, LA – As a subconsultant to Gresham, Smith & Partners, Mr. Lanterman performed a coating condition assessment (visual examination, coating thickness and adhesion measurements, substrate examination, and coating sample procurement), supervised coatings laboratory testing, and prepared a report with recommendations for the rehabilitation of the coating system on this bridge. | | | |
| 02/18 – 06/19 | Walt Whitman Bridge NJ Approach Spans – As a subconsultant to AECOM, Mr. Lanterman provided project engineering/coating consulting services for KTA on this project involving a coating condition assessment to determine the condition of the existing coatings on the structures in order to develop future maintenance painting strategies for each structure. KTA also conducted a Relative Risk Characterization that focused on the relative impacts to the environment, the public, and adjacent workers resulting from the proposed surface preparation activities. | | | |
| 10/18 – 03/19 | Kootenay River Bridge, Creston, BC, Canada – As a subconsultant to McElhanney Consulting Services Ltd., Mr. Lanterman performed a coating condition assessment (visual examination, coating thickness and adhesion measurements, | | | |

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| | substrate examination, and coating sample procurement), supervised coatings laboratory testing, and prepared a report with recommendations for the rehabilitation of the coating system on this bridge. |
| 09/18 – 12/18 | Argentia Newfoundland Ferry Dock Transfer Bridge, Newfoundland, Canada – As a subconsultant to CBCL Limited, Mr. Lanterman performed a coating condition assessment, supervised coatings laboratory testing, and developed recommendations for future maintenance painting of the structural steel end span of this bridge. |
| 07/17 – Present | Benjamin Franklin Bridge, Philadelphia, PA – As a subconsultant to HNTB, Mr. Lanterman is providing project engineering/coating consulting services for KTA on this project involving a coating condition assessment of the bridge to determine the condition of the existing coatings on the structure to develop a future maintenance painting strategy. Additional services include providing contractor containment and paint submittal review services for the maintenance painting and steel repair work on this bridge. |
| 06/17 – 06/19 | Walt Whitman Bridge Corridor - PA Approach – As a subconsultant to AECOM, Mr. Lanterman provided project engineering/coating consulting services for KTA on this project involving a coating condition assessment to determine the condition of the existing coatings on the structures in order to develop future maintenance painting strategies for each structure. KTA also conducted a Relative Risk Characterization that focused on the relative impacts to the environment, the public, and adjacent workers resulting from the proposed surface preparation activities. |
| 03/17 – 05/17 | US 90 Morgan City Bridge and Nearby Structures, Morgan City, LA – As a subconsultant to HNTB, Mr. Lanterman performed a coating condition assessment, supervised coatings laboratory testing, and prepared a report with recommendations for the rehabilitation of the coating system on this bridge. |
| 02/17 – 03/17 | I-310 Luling Bridge, Luling, LA – As a subconsultant to HNTB, Mr. Lanterman performed a coating condition assessment of the weathering steel towers and girders and prepared a report detailing the conditions found and providing recommendations for the remediation of the corrosion problems. |
| 09/16 – 12/16 | South Street Viaduct, New York City (Manhattan), NY – As a subconsultant to HDR Engineering, Mr. Lanterman performed a coating condition assessment, supervised coatings laboratory testing, and prepared a report with recommendations for the rehabilitation of the coating system on this bridge. |
| 03/13 – 11/17 | Commodore Barry Bridge, Chester, PA – As a subconsultant to AECOM, Mr. Lanterman provided project engineering/coating consulting services for this bridge and associated structures (Ramp AC, Ramp BC, SR130 Overpass) to determine the condition of the existing coatings along with providing recoating recommendations. KTA also provided specification review and EH&S services for all structures. |

16. Staff Experience:

UT Inspection & Paint Inspection

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|--|---|--|---|----|
| Firm employed by KTA-Tator, Inc. | | | | |
| Name | James A. Kretzler | | Years of relevant experience with this employer | 9 |
| Title | Supervisor-Other (ASNT Level III) | | Years of relevant experience with other employer(s) | 14 |
| Degree(s) / Years / Specialization | | | | |
| Active registration number / state / expiration date | | ASNT Level III MT, PT, RT, UT (#186946, expiration 10/2025) AWS Certified Welding Inspector (#07020431, expiration 02/01/2025) NACE Coatings Inspector CIP Level 1 (#54804, expiration 09/30/2023) | | |
| Year registered | | Discipline | NDT / Paint Inspector | |
| Contract role(s) / brief description of responsibilities | | ASNT Level III to establish techniques, procedures, methods, etc. for performing NDE inspections (meets MPR 3d) | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | | |
| 07/15 – Present | NDE Department Manager – Mr. Kretzler is managing the NDE Department of the KTA Steel and Concrete Group. He has financial and operational responsibilities along with business development, hiring and training for non-destructive examination services. He is providing Level III services internally for KTA and externally for clients that includes writing and reviewing NDE procedures and certifying NDE technicians. He is also providing NDE training services for Level II Magnetic Particle, Level II Dye Penetrant inspection as well as Ultrasonic Level I and Level II classes covering UT thickness, straight beam and angle beam inspections. | | | |
| 10/21 – 10/21 | North Dakota Department of Transportation – As a subconsultant to Fickett Structural Solutions, Mr. Kretzler was the KTA project manager for Phased Array Ultrasonic Testing (PAUT) on various bridges throughout North Dakota. | | | |
| 03/16 – 05/16 | I-10 Calcasieu Bridge, Baton Rouge, LA – As a subconsultant to HNTB, Mr. Kretzler supervised the UT inspection of the bridge pins on this structure. He reviewed the inspection data and issued an opinion regarding the condition of the pins. | | | |
| 06/15 – 12/19 | New York State Department of Transportation, Albany, NY – As the prime consultant, Mr. Kretzler was the KTA project manager for CWI/NDT and coating inspection services during the fabrication of bridge girders at various shop locations. KTA also provided material sampling services for flat bar and rebar and verifying welding tests in accordance with NYSDOT standards. | | | |
| 12/12 – Present | Connecticut Department of Transportation, Newington, CT – As the prime consultant on three consecutive multi-year statewide contracts, Mr. Kretzler was and is the KTA project manager for steel and concrete fabrication and coatings inspection services at various shop locations. | | | |
| 12/12 – 07/15 | Pennsylvania Department of Transportation – Mr. Kretzler was a KTA Supervisor overseeing the inspection responsibilities of QA inspectors on bridge fabrication in various shops through Pennsylvania and Ohio. He reviewed NDE procedures and completed site audits on NDE technicians and oversaw all NDE activities on various projects. | | | |

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| 06/08 – 12/12 | As an employee of A&A Consultants, Mr. Kretzler provided NDE and CWI services to three inspection consultant companies, conducted inspections for Pennsylvania Department of Transportation bridge projects involving girders, cross frames, and tooth dams. Managed and trained a staff of 9 inspectors. |
| 05/08, 12/09, 01/10 | As an employee of A&A Consultants, Mr. Kretzler performed various inspections for the North Shore Connector Project in Pittsburgh, PA. He performed visual and dye penetrant weld examinations for a temporary bridge and shoring on Tony Dorset Drive spanning the “cut and cover” portion of the light rail system (served as A&A Consultants’ Structural Steel Inspection Supervisor). Mr. Kretzler also provided inspections of 30 light poles for this project at Jett Industries, Ellwood City, Pennsylvania in December 2009, and completed MT/VT inspection of splice plate welds on retaining wall pilings and smoke wall rebar in January 2010. |

16. Staff Experience:

UT Inspection & Paint Inspection

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| Firm employed by: ECM Consultants | | | | |
| Name | Emilio Rodriguez | | Years of experience with this firm/employer | 12 |
| Title | NACE-certified Bridge Coating Inspector | | Years of experience with other firm(s)/employer(s) | 20 |
| Degree(s) / Years / Specialization | | NHI Certified Safety Inspection of In-Service Bridges & Refresher Training; LADOTD Movable Bridge Inspection Workshop; NACE Certified Coating Inspector Level II (No. 40575); Aerial Boom Lift & Scissor Operator Certificate; OSHA 10; and ATSSA Traffic Control Flagger/Technician/Supervisor | | |
| Active registration number / state / expiration date | | NA | | |
| Year registered | N/A | Discipline | Bridge Inspection | |
| Contract role(s) / brief description of responsibilities | | Mr. Rodriguez will provide Bridge inspection. | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. | | | |
| 06/14–12/16 | <p>LADOTD, Contract No. 4400003534, Retainer Contract for Underwater Bridge Inspection Services; Statewide, LA: Mr. Rodriguez provided bridge inspection services for this contract to inspect approximately 400 bridges under a five-year retainer contract. Scope of work included detailed reports involving elements and conditions rating and included documentation of any significant deviations from as-built conditions for each inspection, recommendations for corrective measures, as well as other pertinent data. Some notable major bridges included:</p> <ul style="list-style-type: none"> US-11 Over Lake Pontchartrain: Level I and level II inspection of the structure was performed for approximately 5 miles of US-11 bridge over Lake Pontchartrain to identify significant defects and anomalies, inspection of 672 pile bents as well as related elements such as columns, concrete piers, abutments, caps and fender system/pier protection. I-10 Over Bonnet Carre Spillway: A level I and level II inspection of the structure was conducted on approximately 10.72 miles of the Bonnet Carre Spillway E/B & W/B identifying significant defects and anomalies, inspection of 766 E/B pile bents and 770 W/B, both exposed and underwater portions. Other bridges included: US-90 (EB & WB) over Bayou Des Allemands (Moveable) in St. St. Charles Parish. District 02. I-59 over East Pearl River (NB & SB) (Moveable Cantilever Truss Bridge) in St. Tammany Parish, District 62. US 190 over Tangipahoa River in Tangipahoa Parish, District 62. LA 3087 Over Bayou Terrebonne (Vertical Lift Bridge) in Terrebonne Parish, District 62 | | | |

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| 06/09-10/16 | LADOTD, S.P. No. 064-05-0085 Bayou Lafourche Bridge at Larose, Lafourche Parish, LA: Mr. Rodriguez provided construction inspection for this new vertical lift bridge that involved marine pile driving, concrete piers, steel bridge, anchor bolts, bolted connections, approach roadways, etc. Project also included inspection of surface preparation and field painting/protective coating of main deck span, lift heads, and mechanical components. |
| 09/10-05/12 | USACE No. W912P8-07-D-0067: West Esplanade Ave Bridges over Elmwood Canal, Jefferson Parish, LA: Mr. Rodriguez provided construction inspection services for this contract including the W. Esplanade Avenue Bridge over Elmwood Canal, a \$12 million project consisting of constructing two new bridges across Elmwood Canal at W. Esplanade to replace the existing ones to elevate bridge above the canal as part of hurricane flood risk reduction program. Scope of work included construction of a detour bridge, demolition and removal of the existing bridges involving removal and relocation of utilities in phases. The new construction of the bridges included grading of the canal bottom and banks, pile load testing, pile driving, construction of cast-in-place concrete caps, concrete slab, concrete barrier rails, concrete approach slabs, granular sub-base, roadway base course, asphaltic concrete pavement, highway bridge guardrails, drainage pipes, drainage structures, water lines, sewer lines, and striping. The project also included associated improvements to the adjacent roadway, subsurface drainage, utilities, and riprap for canal bank erosion protection. |
| 06/07-11/08 | LADOTD, S.P. No. 700-99-0405, Crescent City Connection Division-Annual Bridge Inspection, Orleans-Jefferson-St. Bernard Parishes, LA: Mr. Rodriguez provided inspection services for the annual bridge and facility inspection services. Scope of work included the following: structural inspection of the Main Bridge couplet over the Mississippi River; including approaches; ferry facilities, pontoons, mooring, toll facilities, pedestrian bridges and various buildings of CCCD-owned facilities in Jefferson, Orleans, and St. Bernard Parishes. Bridge inspection work included inspection of the all superstructure elements such as main steel trusses and connections, girders, columns, concrete deck, joints, pedestals, bearings including support bents, pads, anchor bolts, ramp structures, painting, roadways and signage etc. Mr. Rodriguez and the team used aerial boom and scissor lifts for inspections. The annual inspection reports for bridge and facility inspection were prepared conforming to LADOTD requirements and included excel listing all deficiencies with remediation recommendations. |
| 09/11-08/13 | LADOTD, I-10 Calcasieu River Bridge Repairs, Calcasieu Parish, LA. Mr. Rodriguez provided inspection (CE&I) services for repairs to I-10 Calcasieu River Bridge. The project scope consisted of main truss connection repairs, saddle bearing repairs, replacement of all damaged bridge railings, pin plate connection repairs, anchor bolt repairs, trestle bent connection repairs, deck joint repairs, bridge handrail repairs, and roadway pavement joint repairs and LBP removal and repainting. Additionally, LADOTD included inspection and analysis of the various other bridge elements to ECM's work, which needed repairs but not included in the original scope. |

16. Staff Experience:**Construction Inspection**

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| Firm employed by: WSP USA Inc. | | | | |
| Name | Joshua Fisher | | Years of experience with this firm/employer | 4 |
| Title | Paint Inspector/ Construction Inspection | | Years of experience with other firm(s)/employer(s) | 14 |
| Degree(s) / Years / Specialization | | | AS / 2006 / Architectural & Engineering Design | |
| Active registration number / state / expiration date | | | NA | |
| Year registered | 2013 | Discipline | Paint Inspector | |
| Contract role(s) / brief description of responsibilities | | Bridge Inspection Team Leader <i>Relevant Training: OSHA 10-hour Hazard Recognition Training for the Construction; ACI Concrete Field Technician Grade 1; NCDOT Concrete Field Technician; ABC Nuclear Density Technician; Level II Erosion & Sediment Control; QMS Roadway Technician OSHA Confined Space entry 8-hour; American Red Cross Adult First Aid/CPR/AED NCDOT Bridge Coating Inspector Level 1; NACE Coating Inspector Level 1 with Bridge Endorsement</i> | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. | | | |
| 06/15-Ongoing | NCDOT, Bridge Repairs and Preservation, Charlotte, NC: Construction Engineering and Inspection : Mr. Fisher served as an inspector on site for the different maintenance repairs that were performed to many bridges around the city of Charlotte; this work includes joint replacement, structural steel replacement, concrete repairs to caps, columns, decks, and curbs. Mr. Fisher assisted in the inspection of a five deck overlay projects that included hydro-demolition and replacement with latex modified concrete. Mr. Fisher served as an inspector on site for blasting and painting procedures of multiple bridges in the city of Charlotte. The procedures include sand blasting and the application of primer, mid coating, stripe coating, and final coating. Mr. Fisher has also verified and reviewed different tests performed during the coating procedure. | | | |
| 08/18-09/18 | SCDOT, Liberty Bridge Paint Inspection, Greenville, SC: Mr. Fisher served as an inspector on site for blasting and painting procedures of the liberty bridges in the city of Greenville. The procedures include sand blasting and the application of primer, mid coating, stripe coating, and final coating. Mr. Fisher has also verified and reviewed different tests performed during the coating procedure. | | | |
| 06/17-01/18 | NCDOT, Construction Inspection Bridge Repairs, Raleigh, NC: Construction Engineering and Inspection – City of Raleigh Bridge Repair, City of Raleigh, NC (2018): Mr. Fisher served as an inspector on site for the different maintenance repairs that were performed to four bridges around the city of Raleigh; this work includes joint replacement, concrete repairs to caps, columns, decks, and partial replacement and tensioning of deteriorated prestressing strands in cored slabs. | | | |
| 1/16-Ongoing | NCDOT, Statewide Bridge Inspection: Assistant Team Leader – State-Wide Biennial Inspection of NCDOT and Municipal NBIS Bridges, Culverts & Ancillary Structures: Mr. Fisher assisted the Team Leader in verifying previously documented conditions and accurately documenting new conditions, all structural dimensions and revised report sketches. | | | |

16. Staff Experience:**Construction Inspection**

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| Firm employed by: ECM Consultants | | | |
| Name | Blake Guidry, P.E. | | Years of experience with this firm/employer 2 |
| Title | Civil/Construction Engineer | | Years of experience with other firm(s)/employer(s) 8 |
| Degree(s) / Years / Specialization | | | B.S. / 2012 / Civil Engineering |
| Active registration number / state / expiration date | | | PE LA (41362) / 09-30-2023 |
| Year registered | 2017 | Discipline | Civil Engineering |
| Contract role(s) / brief description of responsibilities | | | Blake will provide Contract administration services for Roadway and Bridge construction. Mr. Guidry has the following certifications: ATSSA Traffic Control Flagger, Technician and Supervisor. |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. | | |
| 10/15-12/16 | LADOTD, H.007961 – LA 410 – Blackwater Bayou Bridge: Mr. Guidry served as DOTD Assistant Project Engineer for this construction inspection project involving the removal and replacement of a concrete slab span bridge located on LA 410 in East Baton Rouge Parish. The construction included removing the existing bridge, driving 16” precast concrete piles for a new slab span bridge across Blackwater Bayou, base repair, asphaltic concrete approaches, guardrail installation, and drainage improvements to properties adjacent to the bridge site. Due to the complete closure of the roadway, public outreach and relations were important to keep the local residents and impacted motorists informed. | | |
| 10/15-12/16 | LADOTD, H.011668 Essen Lane Bridge Widening Mr. Guidry served as DOTD Assistant Project Engineer for this construction inspection project, overseeing the widening of the existing bridge over Ward’s Creek located on Essen Lane in East Baton Rouge. Work included driving 16” precast concrete piles adjacent to the existing bridge and widening the deck to accommodate the future widening of Essen Lane in H.010560. The existing deck was removed via hydro-demolition and tied to the newly widening sides once piling was complete. The project also included utility relocations and weekly public relation meetings due to the proximity of the hospitals in Baton Rouge’s medical district and construction taking place under live traffic. Work also included adding an additional travel lane on northbound Essen Lane, new signalized intersections, new ADA ramps at all driveways and intersections, and additional drainage capacity. He also served as project coordinator between Kansas City Railroad and the contractor to facilitate the widening of the railroad crossing , relocating the caution lights, adding crossing gates, and the tie-in to Essen Lane. | | |
| 04/14 – 04/15 | LADOTD, H.010638 – River Rd: Government St – Centerville St: Mr. Guidry served as an Assistant Project Engineer for this construction inspection project involving the widening, patching, and overlay on River Road in Denham Springs in Livingston Parish. His duties included being the point of contact with the LADOTD Project coordinator and the City of | | |

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| | Denham Springs, the client. He coordinated with the contractor for scheduling to staff inspectors on the job and to notify the local public for lane closures. He drafted change orders for review, assisted the Project Engineer with Railroad coordination and flagging operations, and compiled the final closeout documentation for final acceptance. |
| 12/15-11/17 | LADOTD, H.010659 Rafe Meyer Bridges: Mr. Guidry served as the DOTD Coordinator in the Project Engineer's office for the Off-System Bridge replacement of two slab span bridges located on Rafe Meyer Road in East Baton Rouge Parish. Mr. Guidry served as contract administrator over the construction inspection and engineering being performed by a consulting firm. Mr. Guidry was present at all project updates and included on all discussions regarding changes or problems occurring in the field. He also made independent site visits as well as having inspector's present during the critical phases of construction. Mr. Guidry was involved in the decision with the DOTD Secretary, Contractor, and local government officials to postpone bridge 2's removal until the debris disposal was complete in the aftermath of the August 2016 flood. |
| 08/19 – 05/20 | LADOTD, H.006531 – Roundabout at Girard Park and Hospital Dr: Mr. Guidry served as Project Engineer for this construction inspection project involving the construction of a portland cement concrete pavement (PCCP) roundabout at the formerly four-way stop at Girard Park Drive and Hospital Drive. Work activities also included the installation of drainage pipe and erection of a structural retaining wall, signing, and striping. Mr. Guidry acted as the contact for the client, Lafayette Consolidated Government, and the LADOTD Project Coordinator. His responsibilities included inspection scheduling, contractor payment, creation of change orders, and project closeout documentation for final acceptance, including the 2059. . |
| 10/17-07/19 | LADOTD, H.011295 LA. 73: Government St., East Blvd-Lobdell, LADOTD, East Baton Rouge Parish, LA Mr. Guidry served as DOTD Project Engineer for this Road Transfer project. In addition to preparing for CE&I work, he was also involved in Project Design and Development, Public Outreach, working with City officials, Public Meetings, and Constructability reviews. Work included several phases where traffic lanes were adjusted to allow for the completion of the project section by section. The project includes rehabilitating the existing pavement and implementing a "road diet" and access management to incorporate bicycle and pedestrian friendly concepts and safety improvements including a roundabout installation at the intersection of Lobdell and Government Street. Mr. Guidry also scheduled and coordinated construction activities for both Kansas City Railroad and the contractor for the widening of the Railroad crossing and tie-in on Government Street |
| 01/17-07/19 | LADOTD, River Road: Florida to Phlox – Multi-use Path, East Baton Rouge Parish, LA: This project was a part of the road transfer agreement between LADOTD and the City of Baton Rouge that incorporated the road diet technique to construct a multi-use path, ADA accessible ramps and crosswalks, and rehabilitating the roadway on River Road (US-61X). Mr. Guidry served as the Project Engineer and was responsible for overseeing contract administration, inspection, and coordinating with the City of Baton Rouge to ensure an acceptance and transfer between the two entities. Mr. Guidry coordinated with the contractor and Illinois Central Railroad to facilitate construction activity and flagging operations within the Railroad Right of Way. |

16. Staff Experience:***Movable Bridge Inspection & Repair***

| Firm employed by: WSP USA Inc. | | | |
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| Name | Trevor Johnson, PE | Years of relevant experience with this employer | 18 |
| Title | Structural Engineer Lead | Years of relevant experience with other employer(s) | 2 |
| Degree(s) / Years / Specialization | | BS / 2002 / Structural Engineering | |
| Active registration number / state / expiration date | | PE LA (0045518) - 9/30/2023; FL (65624) - 2/28/2023 | |
| Year registered | 2021; 2008 | Discipline | Structural Engineering |
| Contract role(s) / brief description of responsibilities | | Movable Bridge Inspection & Repair Lead | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| 6/16 - 5/21 | FDOT, District Wide Bridge Engineering Design/CEI Support Services, District One, FL: <i>Project Manager and Engineer of Record</i> responsible for this task work order based contract for various repairs, inspections, and rehabilitation projects including multiple movable bridge repairs and mechanical/electrical upgrades, post tension bridge repairs, conventional bridge repairs, emergency response, engineering assessments, painting, fender repairs, pile jackets, cathodic protection system repairs, ABC bridge span replacement, joint repairs, concrete and steel repairs, load ratings, and temporary traffic control. Responsibilities also included determining appropriate scope of work, implemented innovative cost saving approaches, coordinated with owners, stakeholders, and project team, and lead work to high quality standards, constructability, and accurate cost estimates. | | |
| 6/12 - 12/18 | FDOT, District Wide Movable and Complex Bridge Repairs, District Two, FL: <i>Project Manager and Engineer of Record</i> responsible for this task work order based contract for various repairs, inspections, and rehabilitation projects including movable bridge repairs, approach span repairs, inspections, and mechanical/electrical upgrades, multiple truss bridge repairs, segmental post tension soft grout investigations and impregnation repairs, painting, joint repairs, concrete spall and crack repairs, load ratings, and temporary traffic control. Responsibilities also included determining appropriate scope of work, cost effective complex steel repairs, minimized impacts on the public, coordinated with owners, stakeholders, and project team, and lead work to high quality standards, constructability, and accurate cost estimates. | | |
| 11/16 - 3/21 | FDOT, Wilson Pigott Draw Bascule Bridge & LaBelle Draw Bascule Bridge over the Caloosahatchee Channel, Lee County, FL: <i>Project Manager and Engineer of Record</i> responsible for these double-leaf Hopkins trunnion bascule bridges. Work included strengthening to bring the structure up to current HL-93 FL120 load rating. Strengthening included innovative solutions of adding post tensioning bars to the floor beams, post installed shear connectors to the cross beams, and carbon fiber wraps to the pre-stressed approach span beams. Rehabilitation included spall repairs, structural steel repairs, coating spot paint, span balancing, span lock repairs, live load shoe adjustments, temporary traffic control, and Wilson Pigott Draw included | | |

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| | replacement of the program logic control system (PLC). Also responsible for coordinating with owners, stakeholders, community outreach, and project team, and lead work to high quality standards constructability, and accurate cost estimates. |
| 10/19 - 4/20 | LADOTD, Port of New Orleans, Almonaster Rail Bascule Bridge, New Orleans, LA: <i>Technical Advisor</i> for the single leaf Strauss truss bascule bridge rehabilitation recommendations and analysis for the repair of deteriorated components of the Almonaster Bridge. Trevor's duties include advising and review of the on-site inspection, quality control review reports of findings & technical memorandums, and load rating calculations. |
| 3/19 – Present | LADOTD, Seabrook Rail Bascule Bridge, New Orleans, LA: <i>Technical Advisor</i> for the single leaf Strauss truss bascule bridge and approach span rehabilitation. Trevor's duties included advising and quality control review of the analysis, design, contract plans and specifications of the full superstructure and bearings replacement for each approach spans along with post design services. |
| 4/16 – 11/19 | FDOT, Bridge of Lions Bascule over Matanzas River IWW, St. Augustine, FL: <i>Project Manager and Structural Engineer</i> responsible for the double rolling bascule bridge rehabilitation, spot painting and overcoating of existing metalizing, correcting barrier railing conflicts, partial replacement of the sidewalk slip resistant plates, and repairing all the pedestrian railing and coordinating the electrical rehabilitation and limit switch improvements. |
| 7/09 – 7/16 & 10/17 – 9/18 | FDOT, Main Street Lift Bridge Structural Enhancements, Jacksonville, FL: <i>Project Manager and Engineer of Record</i> responsible for structural enhancement to this landmark 365-foot span drive vertical lift truss bridge including sidewalk replacement, addition of barriers for truss protection, structural repairs of the trusses, towers, floor beams, stringers, rocker nest bearing repairs, approach span repairs, and spot painting. lead inspections, determine appropriate scope of work, establish structural repair methods. Work also included electrical rehabilitation and droop cable replacement. Engineering studies include: Main Sheave Trunnion and Wire Rope Replacement, Fit for Service analysis (remaining life) of trunnion cracks, cost estimate, construction time estimates and Traffic Resistance Barrier Replacement for making improvements to the existing and replacement options. |
| 10/14 – 12/17 | FDOT, John Ringling Parkway Bascule Bridge over New Pass, Sarasota, FL: <i>Project Manager and Engineer of Record</i> for this single leaf trunnion bascule span. Trevor's responsible for replacing the concrete filled sidewalk grating, window and door replacement, roof replacement, traffic gate replacement, and structural support for the generator replacement, control system replacement, and a motor re-alignment. |
| 9/07 – 2/15 | FDOT, Hillsborough County, West Columbus Drive Swing Bridge over Hillsborough River, FL: <i>Project Manager and Structural Engineer</i> responsible for this major structural rehabilitation of the bobtail swing truss bridge. The rehabilitation included strengthening/replacement of deteriorated structural steel, replacement of the concrete deck, sidewalk, and steel deck grating, addition of traffic railing, heat straightening of impacted members, span balancing, and approach span repairs. Work also included electrical and mechanical rehabilitation. |

16. Staff Experience:***Movable Bridge Inspection & Repair***

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| Firm employed by WSP USA Inc. | | | |
| Name | Amaka Amalu-Anderson, PE | | Years of relevant experience with this employer .5 |
| Title | Sr. Director Mechanical Engineer | | Years of relevant experience with other employer(s) 13 |
| Degree(s) / Years / Specialization | | | BS / 2006 / Mechanical Engineering |
| Active registration number /state/expiration date | | | PE LA (41985) – 3/31/2022; FL (75527) – 02/28/2022; MS (29524) - 12/31/2021 |
| Year registered | 2018; 2013; 2017 | Discipline | Mechanical Engineering |
| Contract role(s) / brief description of responsibilities | | | Movable Bridge Inspection & Repair – Mechanical Amaka specializes in the inspection and design of machinery for heavy movable bascule with areas of expertise including gear train and hydraulically operating machinery design, along with HVAC and water/sewer system design for movable bridge tender houses. She has been involved in over 150 movable bridge projects and inspections. |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| 3/08 – 8/13 | LADOTD, Judge Seeber Vertical Lift Bridge, New Orleans, Louisiana: Mechanical Engineer responsible for shop drawing review and approval, and post design services. Machinery rehabilitation included lifting ropes, counterweight guides, and span lock replacement. The aggressive design schedule required the design to be accomplished in three months. | | |
| 5/19 – 5/19 | LADOTD, I-110 Rolling Bascule Bridge Inspection New Orleans, Louisiana: Lead Mechanical Engineer responsible for leading mechanical systems inspection and report production. | | |
| 9/20 – 9/20 | Port of New Orleans, Almonaster and Seabrook Bascule Bridges, New Orleans, Louisiana: Lead Mechanical Engineer responsible for leading mechanical systems inspection. | | |
| 12/20 – 5/21 | FDOT, CSX New River Bascule Rail Bridge Emergency Repair, Ft Lauderdale, FL: Senior Mechanical Engineer responsible for the overseeing and review of calculations, design, cost estimate, post design services, and field construction work for replacement of two pinion couplings exhibiting full depth cracks at the keyway (coupling fully split). Saved the Owner \$2 million in fees to CSX by preventing full closure of the bascule bridge to rail and marine traffic by utilizing a lock-out mechanism to operate the span with single pinion . This allowed one pinion coupling to be replaced at a time under an accelerated schedule. | | |

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| 3/18 – 11/20 | <p>MSDOT, SR-609 Movable Bascule Bridge Rehabilitation, MS: <i>Lead Mechanical Engineer (EOR)</i> responsible for the inspection, design, technical special provisions, and post design/construction review services for rehabilitation of the mechanical systems including HVAC/Water/Sewer systems. Design included replacing the existing primary reducer and open bull gearing with a primary and secondary planetary. Providing temporary hydraulic cylinder machinery to keep span operational during drive machinery replacement. Replacing and upsizing all drive bearings, shafts, and pinions. Machining of the trunnion shaft and replacement of the trunnion bushings due to flooding damage. Replacing the under-deck span lock system with an above deck, barrier housed span lock system for easier maintenance. Scope included design of new split HVAC system in tender house and control rooms. Design of new bathroom/kitchen sewer and water line runs between the tender utilities and the approach sewer and water connection main lines.</p> |
| 5/17 – 11/20 | <p>NCDOT, US 17 Swing Bridge over the Perquimans River Design-Build, Perquimans County, North Carolina: <i>Lead Mechanical Engineer (EOR)</i> responsible for providing preliminary and final machinery engineering design, technical specifications, and post design machinery services to replace the existing swing bridge over the Perquimans River with a new off-line swing bridge. The machinery design included center pivot bronze disc bearings, balance wheels and track, center live load rollers, span lock machinery, and end lift rollers for the span supporting machinery. The span operating machinery consisted of circular rack and two pinions, with the pinion directly mounted to the reducer output shaft due to limited elevation spacing for machinery design. The span locking machinery consisted of two lockbars actuated by linear worm gear actuators. Amaka also designed the new split HVAC/Water/Sewer system in tender house.</p> |
| 5/12 – 8/16 | <p>GIBA, Gasparilla Island Swing Bridge over ICWW, Placida, Florida: <i>Lead Mechanical Engineer (EOR)</i> responsible for providing preliminary and final machinery engineering analysis, technical specifications, design, post design and construction inspection services for the original 220-foot swing span bridge with a new 678-feet swing bridge. Amaka performed engineering design and calculations for the center pivot assembly, span drive machinery, balance wheel assemblies, center roller assemblies, span locking machinery, rigid stop assemblies, and for updating technical specifications, mechanical shop drawing approvals including the span lock machinery and end lift assemblies. Amaka also designed the new split HVAC/Water/Sewer system in tender house.</p> |
| 9/08 – 1/10 | <p>SCDOT, Ben Sawyer Swing Bridge (SR-703) over the ICWW, Charleston, South Carolina: <i>Mechanical Engineer</i> responsible for providing machinery design and construction inspection services for the rehabilitation and superstructure replacement of the Ben Sawyer Bridge. Amaka prepared design plans and calculations for the center pivot assembly, span drive machinery, balance wheel assemblies, center roller assemblies, rigid stop assemblies, and for updating technical specifications. The new bridge matched the appearance of the existing historical bridge as requested by the local community. This bridge rehabilitation required the new superstructure to be placed on the existing substructure in a seven-day closure period. Amaka also designed the new split HVAC/Water/Sewer system in tender house.</p> |

16. Staff Experience:**Movable Bridge Inspection & Repair**

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| Firm employed by WSP USA Inc. | | | |
| Name | Kevin Walsh, PE | Years of relevant experience with this employer | 7 |
| Title | Electrical Engineering Lead | Years of relevant experience with other employer(s) | 7 |
| Degree(s) / Years / Specialization | | BS / 2007 / Electrical Engineering | |
| Active registration number / state / expiration date | | PE LA (0044049) - 3/31/2022; FL (78396) - 2/28/2023; MD (48485) - 1/14/2022; MA (50267) - 6/30/2022; NJ (24GE05175000) - 4/30/22; WA (52962) - 7/14/2022 | |
| Year registered | 2019 (LA); 2014 (FL); 2016 (MD); 2013 (MA); 2014 (NJ); 2015 (WA) | Discipline | Electrical Engineering |
| Contract role(s) / brief description of responsibilities | | Movable Bridge Inspection & Repair - Electrical | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| 4/21-7/21 | LADOTD, Harvey Tunnel, Harvey, LA: <i>Engineer of Record</i> for the 2021 LADOTD Routine Electrical Tunnel Inspection of the Harvey Tunnel. Tasked to lead the electrical inspections team, inspecting the electrical systems associated with tunnel currently in use for vehicular traffic. Visual inspection and operational testing of all electrical systems throughout the tunnel. Report preparation of all electrical findings. | | |
| 2/21-5/21 | LADOTD, Belle Chasse Tunnel, Plaquemines Parish, LA: <i>Engineer of Record</i> for the 2021 LADOTD Routine Electrical Tunnel Inspection of the Belle Chasse Tunnel. Lead the electrical inspections team, inspected the electrical systems associated with tunnel currently in use for vehicular traffic. Visually inspected and operationally tested all electrical systems throughout the tunnel. Prepared report of all electrical findings. | | |
| 3/19 - 06/19 | WSDOT, Hood Canal Pontoon Bridge No.’s 104/5.1 and 5.2, WA: <i>Lead Electrical Engineer (EOR)</i> for the in-depth electrical inspection of this very complex floating concrete pontoon movable bridge which consists of with six separately operated hydraulic lift spans and two main draw spans. Kevin was responsible for performing visual inspection and operational testing of the electrical and control systems, performed power measurements, and insulation resistance testing. Kevin prepared reports outlining observations, deficiencies, recommendations, and cost estimates. Kevin assisted with management of scope, schedule, and budget. | | |
| 2/19 - Present | NJDOT, Route 30 Single Leaf Bascule Bridge, NJ Route 30 over Beach Thorofare, Atlantic County, NJ: <i>Lead Electrical Engineer (EOR)</i> for this major structural, mechanical, and electrical rehabilitation project which includes work on the bascule span and approaches. Electrical work includes replacement of the traffic signals, resistance barrier gates, traffic warning gates and supporting platforms, programmable logic controller (PLC) system, electrical service and associated equipment, motor and machinery brakes, span locks, auxiliary direct drive diesel engine, CCTV system, PA systems, heat trace system, and a new standby generator. | | |

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| 8/18 - 2/21 | FDOT, Wilson Pigott Double Leaf Bascule Bridge, FL State Road 31 over Caloosahatchee River, Lee County, FL: Lead Electrical Engineer (EOR) for this on-call services contract which includes structural, electrical, and mechanical rehabilitation work. Electrical work involves replacement of the PLC control system, all control console top components, and navigation lighting. Kevin also performed post design construction services. |
| 7/18 - 4/19 | Tacony-Palmyra Double Leaf Bascule Bridge over the Delaware River, Tacony, PA and Palmyra, NJ: Lead Electrical Engineer for this electrical rehabilitation project. Scope includes replacement of the bridge control consoles and additional control system components, and rehabilitation of the electrical wiring system. Preliminary 30% design was developed. |
| 1/16 - 1/19 | FDOT, Bridge of Lions Single Leaf Rolling Lift Bascule Bridge, FL State Road A1A over Matanzas River, St. Johns County, St. Augustine, FL: Lead Electrical Engineer (EOR) for this rehabilitation project which includes the replacement of the span position indication limit switches from existing rotary cam type limit switches (mechanically coupled to the machinery) to new magnetic proximity type limit switches for nearly raised, fully raised, nearly seated, and fully seated indications. Barrier gate fully raised, and fully lowered lever operated limit switches were also installed. Kevin performed post design review of various construction shop drawings and RFI's |
| 9/14 - 2/17 | FDOT, New Pass Single Leaf Bascule Bridge, FL State Road 789 over Sarasota Bay, Sarasota, FL: Electrical Engineer for the electrical rehabilitation project of this single-leaf Hopkins Trunnion bascule bridge. Electrical rehabilitation scope included the design and integration of a partial replacement of the electrical and control system for replacement of traffic gates, two generators, control console top, PLC, submarine cable terminal box, navigation lighting, and partial power distribution replacement. Kevin performed detailed as-built field inspection of the existing electrical and controls systems on the bridge and was responsible for performing several QA/QC reviews for the electrical and control system rehabilitation design. |
| 4/14 - Present | Maryland DOT, Movable Bridge Inspections (On-Call Services), MD: Lead Electrical Engineer (EOR) and assistant electrical engineer for the in-depth electrical inspections of over ten (10) movable bridges throughout the state including bascule and swing bridges. performed the visual inspection and operational testing of the electrical and control systems and performed power measurements/ recording and insulation resistance testing. Kevin also prepared reports outlining observations, deficiencies, recommendations and cost estimates, and managed the budget and schedule. |
| 10/19 - Present | NJDOT, New Jersey Movable Bridge Inspections (On-Call Services), NJ: Lead Electrical Engineer (EOR) for the inspection of several movable bridges throughout the state including bascule and vertical lift bridges. Kevin performed visual inspection and operational testing of the electrical and control systems, traffic safety systems, and control systems. He prepared reports outlining observations, deficiencies, recommendations, and cost estimates, and managed the budget and schedule. |
| 6/14 - 10/16 | Burlington Canal Vertical Lift Bridge, Hamilton, ON, CA: Electrical Engineer for this major electrical and mechanical rehabilitation which includes replacement of the bridge control system, instrumentation, partial power distribution system, motor control centers, main drive motors, VFD's, motor brakes, and gates. Kevin's responsibilities included assisting in several design QA/QC reviews for the electrical and control system rehabilitation design, performing post design review of various construction shop drawings, and performing shop acceptance testing of the main drive motors, motor drives, and overall control system in the field. |

16. Staff Experience:

Movable Bridge Inspection & Repair

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| Firm employed by WSP USA Inc. | | | | |
| Name | Antonio Gonzalez, PE | | Years of relevant experience with this employer | 3 |
| Title | Supervising Engineer | | Years of relevant experience with other employer(s) | 2 |
| Degree(s) / Years / Specialization | | | BS / 2004 / Electrical Engineering | |
| Active registration number / state / expiration date | | | PE LA (38719) - 09/30/2022; WA (57770) - 01/18/2023; PA (088943) - 9/30/2022; NJ (24GE05046600) - 4/30/2022; NY (094428) - 12/31/22; FL (86300) - 02/28/2023 | |
| Year registered | 2019; 2019; 2018; 2013; 2014; 2019 | Discipline | Electrical and Computer Engineering | |
| Contract role(s) / brief description of responsibilities | | | Movable Bridge Inspection & Repair - Electrical | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | | |
| 4/21-7/21 | LADOTD, Harvey Tunnel, Harvey, LA: <i>Electrical Engineer</i> for the 2021 LADOTD Routine Electrical Tunnel Inspection of the Harvey Tunnel. Tasked to lead the electrical inspections team, inspecting the electrical systems associated with tunnel currently in use for vehicular traffic. Visual inspection and operational testing of all electrical systems throughout the tunnel. Report preparation of all electrical findings. | | | |
| 2/21-5/21 | LADOTD, Belle Chasse Tunnel, Plaquemines Parish, LA: <i>Electrical Engineer</i> for the 2021 LADOTD Routine Electrical Tunnel Inspection of the Belle Chasse Tunnel. Lead the electrical inspections team, inspected the electrical systems associated with tunnel currently in use for vehicular traffic. Visually inspected and operationally tested all electrical systems throughout the tunnel. Prepared report of all electrical findings. | | | |
| 10/20-Present | NJDOT Facilities Inventory Database, Trenton, NJ: <i>Electrical Engineer</i> tasked with developing a centralized database to track the primary critical electrical system components throughout NJDOT’s Pump Stations, Flood Gate, Movable Bridges and the Route 29 Tunnel facilities. The goal of the database is to provide a simplified reference of installed electrical equipment as well as critical facility based information for use by NJDOT’s maintenance personnel. | | | |
| 9/2020 | Maryland DOT, Kent Narrows Bascule Bridge, Grasonville, MD: <i>Assistant Electrical Engineer</i> for the 2020 MDOT Routine Electrical Bridge Inspection of the Kent Narrows Bridge. Visual inspection of electrical components including; drive and emergency motors, drives, PLC, ATS/MTS, generator, warning/barrier gates, traffic signals, brakes, span locks, MCC, limit switches, navigation lighting, control console, panelboards, resistors and the CCTV and fire alarm systems. Performed power recordings on motors during operation, and insulation resistance testing of motor windings and feeders. | | | |

16. Staff Experience:***Movable Bridge Inspection & Repair***

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| Firm employed by WSP USA Inc. | | | |
| Name | Noemy Roman, PE | | Years of relevant experience with this employer 4 |
| Title | Lead Movable Bridge Engineer | | Years of relevant experience with other employer(s) 21 |
| Degree(s) / Years / Specialization | | | BS / Civil Engineering / 2002 / Cleveland State University |
| Active registration number / state / expiration date | | | PE FL (86951) - 2/28/2023; IN (PE10809550) - 7/31/2022.; KY (PE #32039) - 6/30/2022; LA (PE.0043748) - 3/31/2022; MI (62010557) – 10/10/2024; OH (PE.71916) - 12/31/2023; SC (37774) – 6/30/2022; WV (22059) – 12/31/2022 |
| Year registered | 2019; 2008; 2016; 2019; 2008; 2007; 2020; 2016 | Discipline | Civil Engineering |
| Contract role(s) / brief description of responsibilities | | | Movable Bridge Inspection & Repair – Structural Noemy is a lead structural engineer and bridge inspector with extensive experience with bridge rehabilitation, design, analysis, inspection, evaluation, retrofit plan work, and alternative studies. Noemy served on several complex projects including high-level, difficult access structures; confined space; movable bridges; and historic structures. Noemy has experience with unique vertical lift bridges, bascules, truss bridges, bobtail (asymmetrical) swing bridge, steel box pier caps, and various prestressed concrete superstructures, and has provided quality assurance/quantity control for numerous bridge design and inspection projects. |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| 2015 | Illinois DOT, 2015 Statewide Structure Design Services, Illinois: WSP provided Phase I and II design services for various statewide structure projects throughout Illinois. <ul style="list-style-type: none"> • Brandon Road Bascule Bridge, Illinois: structural design engineer responsible for repairing the existing girder web plates that exhibit out-of-plane distortion at the old center lock locations, new connections and web stiffening for replacement center locks, and the repairs and strengthening of the fixed span steel frames that support the stringers and deck over the machinery room. Noemy was also responsible for the plan production, quantities, and the construction schedule estimate for these structural repairs for the Illinois Department of Transportation. WSP provided design services for rehabilitation of the 151-foot (trunnion to trunnion), twin leaf bascule bridge over the Des Plaines River. The project was performed on an expedited schedule and with no extended navigable river closures. | | |

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| 2018 - 2020 | <p>Illinois DOT, Webster Ave Movable Bridge Design Services, Chicago, Illinois: Structural engineer for the rehabilitation of the 1916 through “pony” truss, double leaf Webster Avenue Bascule Bridge over the North Branch of the Chicago River. Noemy is responsible for assisting with the plan production and designing the lower lateral bracing and strut replacements, the rehabilitation of the anchor columns, the pier protection fender system, and the live load span anchor system. WSP is providing Phase I and II design services for the rehabilitation of Webster Street Bridge over the North Branch of the Chicago River. The structure has an overall length of 287 feet and a deck width of 60 feet. Phase I includes preparation of preliminary engineering and environmental studies, as well as inspection of existing structures, site survey, and environmental and structural assessments. Phase II includes the preparation plans, specifications, and estimate documents.</p> |
| 2019 - 2020 | <p>ODOT, City of Cleveland Center Street Swing Bridge Rehabilitation, Cleveland, Ohio: Structural design member and inspector for the rehabilitation of the 245-foot, three-span, rim bearing, bobtail swing bridge. Repair work included heat straightening of selected eyebar members damaged from vehicle collision and a new traffic railing system to protect them. WSP is providing design services for the rehabilitation of the historic 1904 Center Street Swing Bridge in Cleveland. The project involves providing structural repairs, improvements to the operator’s house, and painting and minor mechanical and electrical updates. The project scope also calls for replacing the pedestrian sidewalk, improving the bridge lighting system, and installing custom motor brake covers.</p> |
| 03/19 - 10/23 | <p>Michigan Department of Transportation Office of Rail As-Needed Construction Engineering and Inspection Services, Michigan: Structural engineer for the peer review of the accelerated bridge construction method of sliding a 79-foot-long, simply supported twin through girder railroad bridge in a 104-hour railroad shut down window in Jackson, Michigan. Noemy also reviewed the plans, the estimated time of construction, and the specifications for the project and met with the Michigan Department of Transportation and the design consultant to dispose of comments. WSP is providing on-call construction engineering and inspection services to support the Michigan Department of Transportation's efforts to improve state-owned rail lines.</p> |
| 2019-2020 | <p>Michigan DOT, Wayne County Grosse Ile Bridge Foundation Design, Grosse Ile, Michigan: Lead structural engineer for the interim repair and stabilization plans of selected piers of the Grosse Ile Parkway bridge. Noemy reviewed the alternatives for the permanent rehabilitation feasibility study and checked the micro pile option for the swing bridge’s pivot pier supporting the 339’-foot-long, symmetric center bearing movable swing that consists of a two-span continuous, through truss superstructure. The analysis involves calculating the pier loading from the swing superstructure in the closed and open position and under various truck and wind loadings. WSP is providing design services to fill foundation voids at the Grosse Ile Bridge, a vehicular swing bridge connecting Grosse Ile to the mainland in Wayne County. The project involves sheathing the timber cribs and pressure permeation grouting of the dumped rock fill.</p> |

16. Staff Experience:**Load Rating / Bridge Design**

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| Firm employed by WSP USA Inc. | | | |
| Name | Arun Saha, PE | | Years of relevant experience with this employer 3 |
| Title | Structures Leader | | Years of relevant experience with other employer(s) 26 |
| Degree(s) / Years / Specialization | | | MS / Civil Engineering / 1995 / University of Florida BE / Civil Engineering / 1989 / University of Florida |
| Active registration number / state / expiration date | | | PE LA (38334) - 03/31/2022 (to be renewed); GA (25132) - 12/31/2022; SC (25295) - 06/30/2022; NC (32280) - 12/31/2021; MS (20841) - 12/31/2021; KY (29778) - 06/30/2022; NV (23915) - 06/30/2022 |
| Year registered | 2013; 1999; 2006; 2006; 2015; 2013; 2013 | Discipline | Civil Engineer |
| Contract role(s) / brief description of responsibilities | | | Load Rating / Bridge Design Lead Arun has more than 26 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 analyses, and management of plan production. He has also developed LOADRATE software using Visual Basic. |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| 2/13 – 8/15 | LADOTD, US 90 over LA 318 Design-Build, St. Mary Parish, Louisiana: Bridge task manager whose responsibilities included attendance at all design-related meetings (internal team and DOTD), resolution of design issues, coordination of project team, QA/QC design calculations and plans, and management of schedule and budget for the bridge task. The US 90 over LA 318 bridges were constructed as twin bridges for east 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. | | |

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| 2/13 – 8/15 | KDOT, Ohio River Bridges Project—Downtown Crossing Design-Build Segment, Louisville, Kentucky: Task manager and EOR for two bridges—Ramp 10 and Ramp 21, both over I-64. Responsibilities included project design and coordination of project team, QA/QC design calculations and construction plans, and management of schedule and budget for this task. The Ohio River Bridges (ORB) project, connecting Louisville and southern Indiana, is one of the nation’s largest transportation improvement projects to date. Stantec was a design consultant on the Walsh Construction design-build team that completed the downtown crossing segment at the cost of \$860 million. |
| 2/13 – 8/15 | LADOTD, LA 511: Jimmie Davis Bridge Rehabilitation, Bossier Parish, Louisiana: Overall project manager whose responsibilities included maintaining schedule and budget; quality management; coordination with project team, sub-consultants, and client; design, plan productions, and deliverables. This project is located in Bossier Parish and crosses the Red River. The existing bridge is a 16-span structure, totaling approximately 2,823 feet in length. The bridge is on State Route LA 511 and is composed of three main steel truss simple spans: 354 feet, 402.5 feet, and 354 feet long respectively. The truss spans are flanked on both ends by three-span continuous steel deck girders, totaling 610 feet each and spanning the batture at each end. Simple steel girder spans of 70 feet each complete the structure, with five spans at the west end and two spans at the east end of the bridge. Stantec Consulting researched previous repair and inspection documents along with performing in-depth condition verification inspection using rope access method. Based on the findings of the research and site visit, Stantec generated repair strategies and presented the scope of services to LaDOTD. Upon approval, Stantec 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. |
| 2/13 – 8/15 | LADOTD, Retainer Contract for Bridge Preservation, Statewide, Louisiana: Project manager for this \$6-million on-call contract, which includes a full array of services, such as bridge design, rehabilitation, bridge hydraulics, roadway design, geotechnical investigation, and surveying. LaDOTD selected Stantec Consulting Ltd. to provide bridge task order services throughout the state. To date, the focus of the contract has been to provide design and construction documents for the new widening and rehabilitation of bridges throughout the various districts in Louisiana. |
| 2/13 – 8/15 | LADOTD, Retainer Contract for Bridge Load Rating, Statewide, Louisiana: Project manager for this \$3-million contract. LADOTD selected Stantec Consulting Ltd. to provide bridge load rating services throughout the state. Work began in 2014 and was completed in two years. This contract included load rating of more than 600 bridges. Bridge types included concrete, prestressed concrete, steel, and truss bridges, with lengths ranging from 100 feet to 29,000 feet. |
| 2/13 – 8/15 | LADOTD, Bridge Scour Project, Statewide, Louisiana: Project manager of this approximate \$1-million contract. The project involves analysis of scour critical bridges throughout the state, including finite element analysis using data gathered from field inspection and providing recommendation reports. |

16. Staff Experience:***Load Rating / Bridge Design***

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| Firm employed by WSP USA Inc. | | | |
| Name | Thomas M. Harris, PE | | Years of relevant experience with this employer 4 |
| Title | Senior Supervising Engineer | | Years of relevant experience with other employer(s) 30 |
| Degree(s) / Years / Specialization | | MS / 1993 / Civil Engineering (Water Resources) BS / 2002 / Civil Engineering | |
| Active registration number / state / expiration date | | LA (42081) - 03/31/2022 (to be renewed); NC (19299) - 12/31/2021; SC (20305) - 06/30/2022; GA (41057) - 12/31/2022; FL (47335) - 02/28/2023; AL (23025) - 12/31/2021; TN (124719) - 02/28/2023 | |
| Year registered | 2017; 1993; 2000; 2016; 1993; 1999; 2021 | Discipline | Civil Engineering |
| Contract role(s) / brief description of responsibilities | | Load Rating / Bridge Design Team Lead | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| 09/17– 07/21 | NCDOT, Division 14 Group 3, Cherokee, Clay, Haywood, Macon and Swain County, North Carolina: project manager and lead structural engineer responsible for bridge design for a total of 10 low impact bridge replacements in the above counties. Structures include prestressed concrete cored slab and box beam bridges and aluminum box culverts. Each site varies from new locations to bridge replacements utilizing both staged construction and off-site detours to accommodate construction. | | |
| 1/19 – 07/21 | NCDOT, Division 13, McDowell, Rutherford and Madison Counties, North Carolina: Tom is the lead structural engineer responsible for the design of four bridge replacements in the above counties. Designs include prestressed concrete cored slabs and prestressed concrete box beams single and multi-span configuration, one and two bar metal rail barriers as well as vertical barrier rail, steel pile, drilled pier and spread footing foundations. All sites utilize staged construction for the proposed structure. | | |
| 01/03-12/05 | LADOTD, LA-1 Road and Bridge Improvements, Leeville to Port Fourchon, Louisiana: Senior engineer for the design of substructure and superstructure for a 72-foot, simple span with reinforced concrete deck and clear roadway varying in width from 40 feet to 86 feet. The deck and girders were designed at the widened end to cantilever over the cap to allow the deck to abut the edge of the main line structure. The reinforced concrete deck with splayed AASHTO type III concrete girders is supported on reinforced concrete caps and 24-inch pre-stressed concrete piles. The span is designed as part of an elevated interchange facilitating access from existing at grade roadway. | | |

16. Staff Experience:**Load Rating / Bridge Design**

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| Firm employed by: WSP USA Inc. | | | |
| Name | Lloyd (Mark) Pearson, PE | | Years of experience with this firm/employer 2 |
| Title | Bridge Inspection and Preservation Manager | | Years of experience with other firm(s)/employer(s) 42 |
| Degree(s) / Years / Specialization | | BSCE / 1977 / Structural Engineering MCE / 1979 / Structural Engineering | |
| Active registration number / state / expiration date | | PE LA (39629) – 9/30/2023, NC (10656) – 12/31/2022, MS (13215) – 12/31/2022 | |
| Year registered | 2015, 1982, 1997 | Discipline | Civil Engineering |
| Contract role(s) / brief description of responsibilities | | <p>Bridge Design Team Lead - Meets all requirements for MPR2 Mark Pearson is a bridge inspection and preservation manager, senior bridge engineer and project manager. He has functioned as task lead, engineer-of-record and design engineer 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 is currently task manager for post-tensioned spliced girder bridge in Mississippi replacing steel through-trusses. Recent tasks have included quality control reviews of bridge load ratings in SC and TX (using AASHTOWare) and bridge repair plans in NC.</p> <p>Relevant Training: Concrete Preservation Alliance, 2021 Seminar Series on Concrete Bridge Preservation, On-line; TRB Seminar, Use of Drones to Inspect Bridges, 2021, On-line; AASHTO, NCPP Bridge Preservation Seminar; Bridge Deck Preservation Using Overlays, 2020, On-line; NSBA Steel Bridge Forum, Raleigh, 2019; NS and CSX Railroad Roadway Worker Protection - Contractor Safety Certification, Raleigh, 2019; PCI Bridge Design Manual Seminar, Raleigh, 2004; FHWA Curved Steel I-Girder Workshop, San Antonio, 2004; FHWA & ALDOT Prefabricated Bridge Elements Workshop, Montgomery, 2004.</p> | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. | | |
| 11/19 – on going | SCDOT Districts 2 and 7 Load Rating Services for 2,604 structures in SC (2018-Ongoing). As Bridge Inspection and Preservation Manager Mark performed QC reviews for bridge load ratings in Districts 2 and 7 in South Carolina. He provided QC reviews of modifications to bridge load ratings based on NDT and load test results for selected bridges in all seven districts. Role included detailed engineering reviews of rating documents. | | |

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| 05/17 – 03/19 | City of Oxford, Alabama, Leon Smith Parkway Bridge Widening over Choccolocco Creek, in Calhoun County. Engineer-of-Record for widening design of a four @ 100-foot span bridge and a five @ 100-foot span bridge utilizing prestressed concrete bulb-tees as sub to the prime design firm, GMC, Inc. Work included checking designs and plans sheets and directly supervising the design. Project was reviewed by ALDOT on behalf of the Town of Oxford and partly state funded. (Construction 2021). |
| 05/16 – 07/18 | City of Raleigh, NC, B-5556 Replacement of Bridge No. 490 on Lake Dam Road (SR 1427), City of Raleigh Public Works, 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 201.75ft-246.92ft-201.75ft-246.92ft. |
| 02/09 – 7/14 | Florida DOT - District 4, I-595 Express Lanes (Design-Build) 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 design-build phase of a P3 toll project. Designs included 15 highway bridges and five bicycle and pedestrian bridges. Roles included preparing preliminary designs, directly supervising and checking final plans and calculations, writing special provisions, preparing estimates and providing bridge ratings 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. Engineer-of-Record for member rating analysis of three steel truss bridges in Tennessee: Old SR25/Cumberland River with 316 foot main span through truss and deck truss approaches; SR375/German Creek with 282 foot main span through-truss; and SR 67/Watauga River with 492 foot main span deck truss. Role included supervising and checking the manual calculations and VIRTIS analysis. |

16. Staff Experience:***Load Rating / Bridge Design***

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| Firm employed by: WSP USA Inc. | | | | |
| Name | Christopher Ray, PE | | Years of relevant experience with this employer | 19 |
| Title | Supervising Structural Engineer | | Years of relevant experience with other employer(s) | 7 |
| Degree(s) / Years / Specialization | | | MS / 1997 / Civil Engineering; BS / 1995 / Civil Engineering | |
| Active registration number / state / expiration date | | | PE FL (56105) - 2/28/2023 | |
| Year registered | FL: 2000 | Discipline | Structural Engineering | |
| Contract role(s) / brief description of responsibilities | | | Load Rating / Bridge Design Team Lead | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | | |
| 1/10-9/13 | District-wide Complex and Movable Bridges Engineering Services, FDOT District Two Structures Maintenance Office, FL: Project Manager and Engineer on Record for the Sisters Creek Bascule Bridge rehabilitation project. Details included repairs to reinforce the existing joint, while minimizing impacts to the structure and traveling public. Steel platforms were added to replace the existing platforms. A structural analysis was performed on the approach piers to determine the existing capacity which included the current level of deterioration on the existing structure. The project also involved the design and integration of a partial replacement of the electrical and control system. The replacement control system is a hybrid using a programmable logic controller (PLC) and hardwired relays. The span drives are existing hydraulic cylinders powered from a hydraulic power unit-motor/pump/valves (HPU). Electrical and controls design is coordinated among structural and mechanical disciplines. The design includes the replacement of the four-traffic warning gates and provides better gate access for maintenance. | | | |
| 11/17-9/18 | District Wide Engineering Services, FDOT District Two Structures Maintenance Office, FL: Senior Structural Engineer for the Main Street Vertical Lift Bridge Trunnion condition assessment and replacement study. The work included: Size new components (e.g. trunnion, sheaves, bearings and wire ropes) to accommodate the existing grating replaced with a solid light weight concrete deck, update the counterweight trunnion replacement/rehabilitation costs from previous reports, define current costs for replacing the counterweight trunnions, sheaves, bearings, and wire ropes, perform nondestructive testing inspection and evaluation of the transition fillets, trunnion journals, and bearings, perform material testing, stress analysis, and provide a fit for life assessment of the trunnions. | | | |

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| 4/08-10/15 | <p>District-wide Engineering Services, FDOT District Seven Structures Maintenance Office, FL: Project Manager and QC Manager for this task work order-based contract that included repairs to the Kennedy Blvd. Bascule Bridge over the Hillsborough River. WSP performed structural, mechanical, and electrical inspections for the bridge and used the findings to develop detail design plans and specifications for the 2015 rehabilitation. Structural details included repairs to cracks in the arch span and bascule piers and crack repair to the bascule pier and concrete sidewalk. With close coordination with State Historic Preservation Office (SHPO), the tender house received a facelift with new doors, windows and awnings, keeping the historical features while improving functionality and safety. Electrical rehabilitation design included replacing the existing span drives and controls for the existing wound rotor a.c. drive motors and providing a new hardwired based control system. The motor and machinery brakes were replaced, and all traffic and pedestrian gate arms were replaced.</p> |
| 10/10-10/18 | <p>District-wide Complex and Movable Bridges Engineering Services, FDOT District Two Structures Maintenance Office, FL: Project Manager and Quality Control Manager for the Saint Mary's River Swing Bridge rehabilitation project. The project included rehabilitation of piers five and seven addressing underwater foundation deficiencies utilizing underwater hydrographic survey. Structural repairs included miscellaneous steel truss repairs including gusset and lacing bar replacement, ladder and platform replacement and steel painting. Mechanical rehabilitation of the center pivot pier assembly ensured manual key opening of the bridge was achievable which included the balance wheels, input shaft, bushing, and bearings</p> |
| 11/03-10/05 | <p>John's Pass Final Design, FDOT District Seven, Pinellas County, FL: Deputy Manager for the replacement of the scour-critical bridge. The new bridge is a low-level bascule bridge consisting of two American Association of State Highway and Transportation Officials (AASHTO) girder approach spans on both sides of a 196.5-foot double-leaf bascule span.</p> |
| 9/09-10/13 | <p>District-wide Engineering Services, Florida Department of Transportation (FDOT) District Seven Structures Maintenance Office, FL: Project Manager and QC Manager for this task work order-based contract that included repairs to four (4) bascule bridges in Pinellas County. Work included cleaning and painting all structural steel on the movable spans and flanking spans including live load shoes, ladders, railings, span lock components, machinery and machinery supports. Work also included repair spalls and delamination, and replacement of lateral bracing, gusset plates, and angles. It also included the replacement of the fixed glass in the tender houses.</p> |

16. Staff Experience:***Load Rating / Bridge Design***

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| Firm employed by: WSP USA Inc. | | | | |
| Name | Hamid Yaghoubi, EI | | Years of relevant experience with this employer | 4 |
| Title | Senior Structural Engineer | | Years of relevant experience with other employer(s) | 8 |
| Degree(s) / Years / Specialization | | Masters / 2020 / Business Administration MS / 2018 / Structural Engineering BS / 2015 / Civil Engineering | | |
| Active registration number / state / expiration date | | NA | | |
| Year registered | NA | Discipline | Structural Engineering | |
| Contract role(s) / brief description of responsibilities | | Routine Bridge Repair Lead | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | | |
| 12/21-Present | LADOTD, Statewide Rehabilitation of Movable Bridges, Louisiana: Structural engineer for the inspection and rehabilitation/replacement of five movable bridges in the state of Louisiana. WSP USA is providing inspection/design services for the Louisiana Department of Transportation and Development for multiple movable bridges in the state of Louisiana. Hamid’s duties include preparing the scope of work proposal, fee proposal, and other project management work as needed. Hamid is also responsible for supporting the structural efforts throughout this project, including performing load rating analysis and design work as needed. | | | |
| 07/21-11/21 | LADOTD, P3 Advisory Services On-call, Louisiana: Structural engineer for this on-call project. WSP USA is providing advisory services for the Louisiana Department of Transportation and Development. Hamid’s duties include providing structural engineering support as needed. The last task included performing a risk analysis on the Calcasieu bridge and conducting a ship impact study to provide recommendations for the client. | | | |

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| 06/19-10/19 | Texas Central Railway, Texas High-Speed Rail, Houston - Dallas, Texas: Structural engineer for the design of various bridge components. WSP USA is providing design services for Texas Central Railway. The Structural portion of the project includes the design of several bridges including, typical prestressed and steel bridges, as well as complex bridges. Hamid's duties include analysis and design of various components of different bridges per the demand of the project, developing design calculations, preparing bridge final design plans, and conducting quality control. Hamid also worked with the Complex Bridge Group in WSP and he designed 10 ft, 20 ft, 30 ft, and 40 ft span Arch Culvert Bridges and their related components including, wing walls, and retaining walls for phase three of the project. |
| 10/18- 05/20 | NCDOT, I-485 over Westinghouse Rd, Charlotte, North Carolina: Bridge engineer for the design of a prestressed concrete bridge. WSP USA provided design services for the North Carolina Department of Transportation for the design-build project over Westinghouse Boulevard. The project includes the replacement and widening of the existing bridges. Hamid's duties include modeling, analysis, and design of the prestressed bridge along with preparing bridge final design plans, as well as quality control of other prepared plans. |
| 01/22-Present | Mississippi DOT, US 98 over Homochitto River, Charlotte, Mississippi: Bridge engineer for the design of a concrete bridge. WSP USA is providing design services for the Mississippi Department of Transportation. The project includes the replacement of the existing bridge. Hamid's duties include modeling, analysis, and design of different bridge components. Hamid is also responsible for providing project management services as needed. |
| 06/20-10/20 | NCDOT, I-540 (R2828), Raleigh, North Carolina: Bridge engineer for the design of a prestressed concrete bridge. WSP USA is providing design services for the North Carolina Department of Transportation. Hamid's duties include modeling, analysis, and design of the bridge superstructure and substructure along with preparing bridge final design plans. |

16. Staff Experience:***Load Rating / Bridge Design***

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| Firm employed by: ECM Consultants | | | |
| Name | Chad Vosburg, P.E. | | Years of relevant experience with this employer |
| Title | Vice President | | Years of relevant experience with other employer(s) |
| Degree(s) / Years / Specialization | | 1992/Civil Engineering/ LA PE 27677; ATSSA Work Zone Traffic Control Flagger, Technician, Supervisor, NHI Inspection of In-Service Bridges | |
| Active registration number / state / expiration date | | PE LA (27677) – 09/30/2022 | |
| Year registered | 1992 | Discipline | Civil Engineering |
| Contract role(s) / brief description of responsibilities | | Chad has more than 27 years of professional engineering experience in highways, roads and bridge construction including a 25-year career with LADOTD. As District 61 Administrator for LADOTD he provided leadership and directed all Baton Rouge operations including engineering, construction, maintenance, public works, traffic services, pumping stations and other DOTD facilities throughout the nine parishes under District 61 Area centered in Baton Rouge, 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 time specified in the applicable MPR(s). | | |
| 07/97-10/01 | LADOTD, I-12: Widening Jct. I-10 to US 61, East Baton Rouge Parish, LA: Mr. Vosburg served as LADOTD Project Engineer for this \$44 million construction project to add an additional lane to I-12 from I-10 to US 61. The project included reconstruction of the Jefferson/Drusilla overpass. Work included drilled shafts, steel girders, concrete median barrier, concrete patching jointed concrete pavement, stabilized embankment, temporary sheet piling, lime treatment, class 2 base course, drainage, and sign truss installation, along with other incidental items. In addition to being responsible for the Construction Engineering and Inspection work, Mr. Vosburg also was involved in Public Outreach for DOTD necessary throughout project phasing. Work included several phases where traffic lanes were adjusted to allow for the completion of the project section by section. Project included phased construction of the Jefferson/Drusilla overpass with extended steel girder spans. Work included camber management and skewed placement of girders on this heavily travelled roadway. | | |

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| 08/19 - ongoing | <p>LADOTD, S.P. No. H.003370, I-220 /I-20 Interchange IMP & BAFB Access Road- Design-Build, Bossier Parish, LA. Mr. Vosburg is serving as Construction Quality Control Manager for this \$71.8 million design-build project to construct a new I-220 extension South of I-20 that will provide access to Barksdale Air Force Base, adding access ramps and enhancing capacity at the I-20/220 interchange, and also includes bridge construction over the existing KCS railway and Musselshell bayou. This work includes 4 separate bridges including a NB and SB I-220 overpass over I-20, and a NB and SB overpass over the KCS railway crossing. This work includes pile driving, drilled shafts, installing prestressed concrete girders, steel girders, on grade roadway including earthwork, subbase and base, drainage, utilities relocation, PCC pavement, and Asphaltic Concrete pavement.</p> |
| 05/03-08/11 | <p>LADOTD, S.P. No. 052-02-0024: Audubon Bridge and Approaches, Pointe Coupee & West Feliciana Parishes, LA: Mr. Vosburg served as DOTD Area Engineer and coordinated with a design-build project team for this \$410 million project involving installation of a major Mississippi River bridge crossing that included a 3186-foot-long cable stayed bridge, four smaller bridges, concrete barrier rail, guardrail, and approach roadways that traversed West Feliciana and Pointe Coupee Parishes. Work included verification that specifications and standards were being met for all components of the cable stayed bridge and approach roadway on both sides of the new bridge. Work also included analyzing design modifications that were issued by the contractor, reviewing remedial work to correct work that did not meet requirements, coordination with local municipalities on closing existing ferry facilities prior to bridge opening, and other related duties that required coordination with DOTD, parish, city and contracting staff.</p> |
| 05/13-08/16 | <p>LADOTD, S.P. No. H.001940: Sunshine Bridge Rehabilitation Phase 2, Ascension Parish, LA: Mr. Vosburg served as District Administrator for this \$25.1 million project rehabilitation of a major Mississippi River bridge crossing, with maintenance and preservation such as concrete barrier rail, guardrail, expansion joint rehabilitation, and painting the entire superstructure. Mr. Vosburg's involvement also included public outreach and working with industrial plants in the area to plan project work to be completed with the least inconvenience and traffic delays to motorists and workers in the area.</p> |
| 06/09-03/11 | <p>LADOTD, S.P. No. 450-08-0051: I-10: Mississippi River Bridge Rehabilitation, East & West Baton Rouge Parishes, LA: Mr. Vosburg served as DOTD Area Engineer for this \$16.1 million project involving major structural repairs to the bridge superstructure, including gusset plate and pinned connections, signage, Epoxy-Urethane bridge deck overlay and related work. In addition to being responsible for Construction Engineering and Inspection work, Mr. Vosburg was also involved in Project Development to make the project constructible, to be able to offload needed materials on the superstructure, and to maintain traffic while completing the work</p> |

16. Staff Experience:***Load Rating / Bridge Design***

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| Firm employed by: WSP USA Inc. | | | | |
| Name | Mark Shlyakov, PE | | Years of relevant experience with this employer | .5 |
| Title | Senior Bridge Engineer / Project Manager | | Years of relevant experience with other employer(s) | 42 |
| Degree(s) / Years / Specialization | | | N/A | |
| Active registration number /state/expiration date | | | FL (70348) – 2/28/23; LA (38927) – 9/30/22; MA (48774) – 6/30/22; NJ (24GE05658300) – 4/30/22; PA (PE048980E) – 9/30/23; TX (PE 123009) – 3/31/23; GA (38927) – 12/31/22; WV (38927) – 12/31/22; MD (38927) – 10/10/23 | |
| Year registered | 2009; 2014; 2010; 2021; 1995; 2016; 2019; 2001; 2019 | Discipline | Structural Engineering | |
| Contract role(s) / brief description of responsibilities | | | Truss Repair Expert Mark has more than 40 years of experience in the design, inspection, and rehabilitation of steel and concrete bridges including horizontally curved composite steel structures, prestressed concrete, post-tensioned concrete segmental, cable-stayed, arch bridges, deep foundations, long-span trusses, retaining walls, and culverts. He previously served as a project manager and senior structural engineer on numerous bridge projects and has performed seismic evaluation, design and retrofit of many bridges throughout Pennsylvania, Tennessee, Florida, and other states. Mark has extensive experience in the analysis and plans preparation of major bridge structures. | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | | |
| 1/13 – 11/15 | LADOTD, Jimmie Davis Bridge over Red River, District 4, Bossier City, Louisiana: Senior structural engineer for this 16 span, 2821-foot long bridge that 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. | | | |

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| 12/09 - 9/10 | <p>PennDOT, State Route 6006-State Route 255 over State Route 107 and Rush Brook Creek, Lackawanna County, Pennsylvania: Senior structural engineer responsible for performing truss rating analysis and design of the retrofit of deteriorated steel truss connections and the replacement of existing rocker bearings. This single-span through-truss was extensively retrofitted in stages while maintaining one lane of traffic all the time. The original non-composite deck was replaced with a new composite deck. The composite action improved the rating of stringers and floor beams.</p> |
| 2/16 - 03/19 | <p>TxDOT, State Highway 288 and Sam Houston Tollway, Bridges BW8-F and BW8-H, Houston, Texas: 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.</p> |
| 2/16 - 5/16 | <p>MTA, Chesapeake Bay Bridge, Maryland Transportation Authority, Maryland: Team leader for the inspection of the eastbound through cantilever trusses and flanking deck trusses in accordance with National Bridge Inspection Standards. The 3,200-foot suspension span of this 4.3 miles long bridge was one of the longest continuous over-water steel structures in the United States.</p> |
| 4/17 - 2/20 | <p>MTA, Purple Line Light Rail, MDSHA, Washington, D.C.: Designed the segment 1 anchored and cantilever walls. Mark provided the calculation check for a five-span light rail bridge over the Silver Spring transit center. The bridge had an S-curve layout with a track radius of 173 feet and spanned up to 280 feet long. He provided the calculation check for the 182 feet long single-span bridge carrying a light rail bridge over Connecticut Avenue. In addition, Mark also conducted an independent analysis of the Lyttonsville Bridge which carried highway traffic over railway tracks.</p> |
| 9/17 - 2/20 | <p>FDOT, Gusset Plate Load Rating Analysis District 2 GEC Contract, Lake City, Florida: Lead technical professional for the load rating of gusset plates on six major steel truss bridges near Jacksonville, Florida, which included Myrtle Avenue (1955): three-rib steel through arch and 386 feet maximum span; St. Mary's River Bridge (1927): four-span steel moveable swing truss; Mathews Bridge (1953): six-span steel cantilever truss and 810 feet maximum span; Main Street (1941): three-span steel moveable lift-truss and 386 feet maximum span; Isaiah D. Hart Bridge (1967): three-span steel tied-arch and 1088 feet maximum span; and Hal W. Adams (1947): Steel truss suspension bridge and 420 feet maximum span. Mark's efforts included field review and inspection of each bridge, review of historical documents, the load rating of the plates and connections in accordance with MBE Article 6A.6.12.6, 3-D modeling of the trusses, and evaluation of rehabilitation alternatives. He completed various roles for different structures: engineer of record for the rating of Myrtle, St. Mary's. He also developed evaluation spreadsheets to handle gusset ratings of eight unique vehicles, which uses partial shear and truncated Whitmore techniques developed by the Federal Highway Administration and implemented in the American Association of State Highway and Transportation Officials.</p> |

16. Staff Experience:***Load Rating / Bridge Design***

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| Firm employed by: WSP USA Inc. | | | | |
| Name | Michael C. Brown, PE, CBI | | Years of relevant experience with this employer | 5 |
| Title | Bridges and Structures Management / Senior Director, Structural Engineer | | Years of relevant experience with other employer(s) | 20 |
| Degree(s) / Years / Specialization | | | PhD / 2002 / Civil Engineering MSC / 1999 / Civil Engineering | |
| Active registration number / state / expiration date | | | Professional Engineer: VA 0402029153 | |
| Year registered | 1998 | Discipline | Structural Engineering | |
| Contract role(s) / brief description of responsibilities | | | Corrosion Bridge Repair Expert Michael is a senior director, structural engineer. He serves as the firm's US bridge preservation leader; he conducts condition evaluation of bridges and transportation structures, with broad knowledge of materials testing and nondestructive evaluation techniques; develops preventive maintenance, repair, and rehabilitation strategies; and coordinates structural load testing and in-situ monitoring, including instrumentation and data analysis. Since 1990, Michael has developed and executed an array of projects in highway bridge condition evaluation, corrosion evaluation and mitigation, bridge maintenance, preservation and rehabilitation, as well as evaluation and repair of buildings and parking 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 time specified in the applicable MPR(s). | | | |
| 02/19-06/22 | VDOT, Varina-Enon Bridge, transverse post-tensioning and footing evaluation and asset management plan. DPM and Task Lead for Footing Evaluation and Asset Management Plan. Performed follow-up investigation of posttensioned tendons in main unit trapezoidal boxes following a tendon rupture; performed follow-up investigation to determine prognosis and recommended mitigation of alkali-silica reaction in concrete pile-cap footings for segmental concrete piers; developed Asset management plan for structure including risk workshop, data and performance gaps analyses, near and long-term needs assessment, and update of Owner Manual, as well as BIM feasibility study. Project Value \$1.2M. | | | |

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| 01/18-05/21 | Minnesota DOT, John A. Blatnik Bridge Technical Analysis, Duluth, MN to Superior, WI. Service Life Analysis Task Lead. Develop and implement a field inspection, evaluation, sampling and testing program, followed by remaining service life analysis of reinforced concrete piers, steel girder approach spans, and steel truss main span for the John A. Blatnik Bridge, which carries I-535 over the St. Louis River between Duluth, Minnesota and Superior, Wisconsin. The bridge is approximately 60 years old and the reinforced concrete deck was replaced and widened during a rehabilitation in 1994. The service life assessment complements a parallel comprehensive load rating program to support implementation of a bridge-specific asset management plan for the structure. Project Value: \$2.6M |
| 09/20-06/22 | Utah DOT, I-80 36 Bridges AMP, Salt Lake City; Technical & Testing Lead for a corridor asset management study of 36 bridges near SLC airport. Perform literature review and desk review of structural data, direct field investigation and develop detailed testing plan to support coordinated long-term management planning for the corridor. Project value: \$1.3M. |

16. Staff Experience:***Load Rating / Bridge Design***

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| Firm employed by: WSP USA Inc. | | | | |
| Name | Victor Ryzhikov, PE, SE | | Years of relevant experience with this employer | 24 |
| Title | Specialist - Segmental Bridges | | Years of relevant experience with other employer(s) | 16 |
| Degree(s) / Years / Specialization | | | MS / 1979 / Bridge Engineering | |
| Active registration number / state / expiration date | | | CA 53601 - 6/30/2022; FL 52535 - 2/28/2022; WA 29711 - 9/17/2022 | |
| Year registered | 1995 | Discipline | Structural Engineering | |
| Contract role(s) / brief description of responsibilities | | | Post-Tensioned Bridge Repair Expert | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | | |
| 4/21 - Present | FDOT, Continuing Services Design for Movable and Complex Bridge Repairs, District Two, FL: <i>Technical Advisor</i> for this 5-year \$5 million 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, pile replacement, cathodic protection system, saddle bent installation, bridge deck replacement, joint repairs, beam replacements, scour countermeasures, peer reviews, and load ratings. | | | |
| 2/21 - Present | FDOT, Bridge Engineering Design Continuing Services, District One, FL: <i>Technical Advisor</i> for this 5-year \$5 million dollar task work order based contract that includes various repairs, inspections, and rehabilitation projects such movable bridge repairs, post tension bridge repairs, conventional bridge repairs, emergency response, engineering assessments with repair recommendations and cost estimates, painting, fender repairs, pile jackets, pile replacement, cathodic protection system, concrete and steel repairs, joint repairs, beam replacements, scour countermeasures, peer reviews, and load ratings. | | | |
| 6/16 - 5/21 | FDOT, District Wide Bridge Engineering Design/CEI Support Services, District One, FL: <i>Technical Advisor</i> for this 5-year \$1.5 million dollar task work order based contract that included various repairs, inspections, and rehabilitation projects such movable bridge repairs and strengthened 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, ABC bridge span replacement, joint repairs, concrete and steel repairs, and load ratings. | | | |

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| 6/12 - 12/18 | FDOT, District Wide Movable and Complex Bridge Repairs, District Two, FL: <i>Technical Advisor</i> for this 6-year \$1.7 million dollar task work order based contract that includes various repairs, inspections, and rehabilitation projects such as movable bridge repairs, inspections, and mechanical/electrical upgrades, truss bridge repairs, segmental post tension soft grout investigations and impregnation repairs, painting, joint repairs, concrete spall and crack repairs, and load ratings. |
| 11/16 - 3/21 | FDOT, Wilson Pigott Draw Bridge & LaBelle Draw Bridge over the Caloosahatchee Channel, Lee County, FL: <i>Technical Advisor</i> for these double-leaf Hopkins trunnion bascule bridges. Work included strengthening to bring the structure up to current HL-93 FL120 load rating. Strengthening included innovative solutions of adding post tensioning bars to the floorbeams, post installed shear connectors to the cross beams, and carbon fiber wraps to the pre-stressed beams. Rehabilitation included spall repairs, structural steel repairs, coating spot paint, span balancing, span lock repairs, live load shoe adjustments. |
| 11/15-04/16 | FDOT, Flagler Bridge Replacement, West Palm Beach, FL: <i>Lead Structural Engineer and EOR</i> . As part of the Statewide Structures review contract, Victor was responsible for developing repair procedures to the Flagler Bridge to prevent further settlement of the existing bascule piers due to construction activities. The repair utilizes underpinning of the existing foundations by micro piles. The emergency repair design was done in 10 days. Provide post-design support during construction. |
| 7/03-4/13 | FDOT, John's Pass Bascule Bridge Replacement, Pinellas County, FL: <i>Lead Structural Engineer</i> for this dual double-leaf bascule spans with trunnion-to-trunnion spans of 210 feet. The leaf has an exodermic deck supported by floorbeams and two steel box main girders. Victor designed and developed details of the bascule piers and all of its components coordinated with all disciplines and also was responsible for all post design services effort for the complete construction of the bridge including demolition, phase construction, utilities, approach spans, bascule piers and span, tender house, shop drawings, inspections, and addressing contractor's request. |

16. Staff Experience:**Additional Support - Survey**

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| Firm employed by: Linfield, Hunter & Junius, Inc. . | | | | |
| Name | William J. Muller, P.L.S. | | Years of relevant experience with this employer | 17 |
| Title | Registered Land Surveyor | | Years of relevant experience with other employer(s) | +30 |
| Degree(s) / Years / Specialization | | | Southeastern Louisiana University/1954 | |
| Active registration number / state / expiration date | | | PLS.0004746 / LA / 09/30/2023 | |
| Year registered | 1995 | Discipline | Land Surveying <i>Meets all the requirements of MPR 5.</i> | |
| Contract role(s) / brief description of responsibilities | | | Surveyor | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | | |
| Muller has extensive experience in all aspects of land surveying throughout Louisiana. He was technical manager for the largest land survey firm in Southeast Louisiana for many years. Prior to that he worked in the offshore industry spotting well locations, run field crews for numerous Louisiana Power and Light topographic and boundary surveys, analyzed thousands of boundary surveys, hydrographic surveys and supervised multiple field crews, draftsmen and land surveys. | | | | |
| 10/18 - 05/19 | Causeway Boulevard Survey (Metairie Road to West Napoleon Avenue, Metairie, LA) LHJ performed a full topographic survey of Causeway Blvd. between Metairie Rd. and W. Napoleon Ave. (5700 L.F. approximately). Existing improvements, utilities, limits of paving, fencing, sidewalks, and signage were located. Cross Sections were performed every 50 ft. and a plan and profile drawing of Causeway Blvd and the adjacent service roads was delivered. | | | |
| 06/20 - 12/20 | Bonnabel Boulevard Survey (Metairie Road and I-10 Service Road), Metairie, LA LHJ performed a full topographic survey of Bonnabel Blvd. between Metairie Rd. and I-10 (3900 LF. Approximately). Existing improvements, utilities, limits of paving, fencing, sidewalks, and signage were located. Cross Sections were performed every 50 ft. and a plan and profile drawing of Bonnabel Blvd was delivered. | | | |
| 06/2018 - Ongoing | Mississippi River Dredging Survey, Avondale Shipyard Redevelopment, Avondale, LA Project Manager – Mr. Muller as responsible for Office Coordination, overall QA/QC, and Final Deliverables. – LH&J provided surveying for the redevelopment of the former Avondale shipyard facility in Jefferson Parish for over 2 miles in the Mississippi River. The types of surveys conducted were Hydrographic Multibeam, Overbanks, Digital Levels, RTK and Conventional with Total Stations and Data Collectors. Deliverables included Benchmarks Descriptions, AutoCAD DWG, AutoCAD DTM, GIS Shape Files, Dredge Volumes and a Detailed Survey Report. | | | |

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| 02/2019 - 09/2019 | <p>South Shore Harbor Marina Dredging Survey, New Orleans, LA Project Manager – Mr. Muller as responsible for Office Coordination, overall QA/QC, and Final Deliverables. - The project included dredging the marina entrance and using the material to rebuild a 20 acre peninsula for the Lakefront Management Authority. The type of surveys that LH&J provided were Topographic utilizing Static GPS, RTK, Hydrographic Multibeam, Overbanks, and Conventional with Total Stations and Data Collectors. Deliverables included Benchmarks Descriptions, Microstation DGN, Microstation InRoads DTM, GIS Shape Files, Dredge Volumes and a Detailed Survey Report.</p> |
| 09/2017 - 12/2017 | <p>GIWW to Clovelly Hydrologic Restoration, Lafourche Parish, LA Project Manager – Mr. Muller as responsible for Office Coordination, overall QA/QC, and Final Deliverables. - LH&J provided Singlebeam surveys for 2,900 linear feet of rock dike in Lafourche Parish for the Clovelly Hydrologic Restoration Project. Single beam hydrographic surveys and GPS topographic surveys were conducted for this project for APC construction. Deliverables included pre construction and post construction surveys include volume analysis including Autocad DTM files. The project was constructed for the CPRA.</p> |
| 07/2017 – 11/2018 | <p>LPV 20.2 Foreshore Protection, Jefferson Parish, LA Project Manager – Mr. Muller as responsible for Office Coordination, overall QA/QC, and Final Deliverables. - LH&J provided surveying 6 miles of rock dike along the shores of Lake Pontchartrain in Jefferson Parish. The types of surveys conducted were Hydrographic Singlebeam, Overbanks, Digital Levels, construction staking, plan/profile drawings, RTK and Conventional with Total Stations and Data Collectors. Deliverables included Benchmarks Descriptions, AutoCAD DWG, AutoCAD DTM, GIS Shape Files and a Detailed Survey Report.</p> |
| 04/2019 – 09/2019 | <p>Grand Isle Dredging Survey, Grand Isle, LA Project Manager – Mr. Muller as responsible for Office Coordination, overall QA/QC, and Final Deliverables. - LH&J provided surveying for the USACE dredging project in Grand Isle, LA. LH&J set buoys to mark the locations of the borings and performed magnetometer surveys to mark the locations of underwater pipelines. The types of surveys conducted were Hydrographic Singlebeam, magnetometer and RTK surveys. Deliverables included AutoCAD DWG, AutoCAD DTM, GIS Shape Files and a Detailed Survey Report.</p> |

16. Staff Experience:

Additional Support - Survey

| Firm employed by Linfield, Hunter & Junius, Inc. | | | | |
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| Name | Daniel D. Bindewald | | Years of relevant experience with this employer | 12 |
| Title | Surveyor | | Years of relevant experience with other employer(s) | 0 |
| Degree(s) / Years / Specialization | | | BA / 2010 / Criminal Justice | |
| Active registration number / state / expiration date | | | N/A | |
| Year registered | N/A | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | | Surveyor | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | | |
| Bindewald has served as a survey crew member and more recently as a survey party chief on numerous projects. Bindewald initially joined LH&J as a survey party crew member and began performing as the crew chief of LH&J’s Survey Party Team 2 in 2009. Bindewald is proficient in the use of modern GPS/RTK survey instruments, as well as conventional total stations and levels. He is experienced in performing land surveys in all types of environments, including urban, forests and marshes. Bindewald has led survey crews conducting boundary, topographic and hydrographic surveys in Louisiana, Texas and Mississippi. He is knowledgeable of the USACE New Orleans District Minimum Survey Standards Edition 4.1, February 2015, (as well as prior editions) and has a high level of experience and expertise ensuring that all survey work performed by LH&J for the USACE New Orleans district is performed in strict compliance with these standards. Relevant Training: ATSSA – Traffic Control Technician/Supervisor; ATSSA – Traffic Certified Flagger | | | | |
| 10/21 – Present | Chris Kennedy Road Bridge, Pearl River, LA: Survey Party Chief for topographic survey for the removal and replacement of the Chris Kennedy Road Bridge. Approximately 1,000 feet of survey on the upstream and downstream sides of the bridge. | | | |
| 02/10 – 08/12 | Inner Harbor Navigation Canal Surge Protection Barrier, New Orleans, LA: Provided surveying services including locating borings in the field and providing elevations with latitude and longitude coordinates. Located the USACE baselines and tied into the project control to provide station and offset data. Benchmarks were occupied and set for project control. Existing and final cross sections were taken providing cut/fill quantities, station and offset data for 36” diameter pipe piles were provided for QA/QC measures. Bindewald was the GPS survey party crew chief responsible for the accurate collection of all field survey data and reviewed the developed survey files and drawings for consistency with USACE New Orleans District Minimum Survey Standards. Construction cost was in excess of \$1.5 billion. | | | |

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| 06/10 – 02/11 | <p>Storm Proofing Orleans Parish Drainage Pump Stations, New Orleans, LA: Provided topographic surveys of 18 existing pump station sites for the project. Baselines and benchmarks were established to obtain elevations and latitude/longitude data. Utilities were located and related to the baselines using station/offset data, right-of-way maps were provided to the USACE for project design. Bindewald was the GPS Survey party crew chief responsible for the accurate collection of all field survey data and reviewed the developed survey files and drawings for consistency with USACE New Orleans District Minimum Survey Standards. Program Cost was approximately \$200 million.</p> |
| 11/10 – 12/12 | <p>Preparation of Plans and Specifications for the Hurricane Protection System at West Bank Non-Federal Levee NOV-NF-W-04 Oakville to LaReussite in Plaquemines Parish, LA</p> <p>During the design of this 8.3 mile levee and fronting protection project, Bindewald was the GPS survey party crew chief responsible for performing the supplemental surveys that were needed to complement the Government furnished survey information. Detailed topographic surveys were performed using GPS/RTK equipment at the Ollie Pump Station and at the interface with the adjacent WBV-09a floodwall. Hydrographic surveys were performed to collect bathymetric data for a number of canals and bodies of water that are immediately adjacent to the levee alignment. All elevation data was collected using the North American Vertical Datum (N.A.V.D. 88) (2004.65) and all X-Y coordinates were based upon the Louisiana State Plane Coordinate System, South Zone NAD 83, in U.S. survey feet. During the construction of the project, Bindewald was the GPS survey party chief responsible for field locating the locations for installing 30 temporary bench marks (TBMs) that were supported by 60-foot deep concrete filled boreholes. After construction of the TBMs he performed high precision ± 1.5 mm leveling surveys to tie the TBMs into the required vertical and horizontal datums. He also filed located the installation locations for 34 geotechnical instrumentation clusters and monitoring panels that are used to measure settlement during the first stage of the levee construction and then surveyed the precise elevation and location for each instrument after they were installed. As part of the settlement monitoring program, every two weeks Bindewald leads a survey crew that performs high precision elevation surveys of each of the 34 settlement plates and monitoring panels so that surveyed data can be correlated to the remotely monitored settlement gauges. Construction cost of the project is approximately \$45 million.</p> |

16. Staff Experience:***Additional Support - Survey***

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| Firm employed by Linfield, Hunter & Junius, Inc. | | | | |
| Name | Kristine M. Troxclair | | Years of relevant experience with this employer | 15 |
| Title | Cadd Technician | | Years of relevant experience with other employer(s) | 0 |
| Degree(s) / Years / Specialization | | | AAS / 2008 / Drafting | |
| Active registration number / state / expiration date | | | N/A | |
| Year registered | N/A | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | | CADD Technician | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | | |
| Troxclair has drafted numerous projects including: CVS Pharmacy & Dollar General surveys and site plans as well as final design plans throughout Louisiana, Mississippi, Tennessee & Texas. | | | | |
| 03/14 – 06/14 | Club Deluxe Road, Right-of-Way, Tangipahoa Parish, LA: This project consisted of surveying for the construction of a new road including Right-of-Way maps for land acquisition and topographic surveying. Ms. Troxclair was in responsible charge of the drafting for this project. | | | |
| 02/12 – 08/15 | Lake Pontchartrain and Vicinity Hurricane Protection System (LPV) Various Sites, New Orleans, LA: This project included civil design of miles of levee for the USACE. Ms. Troxclair was in responsible charge of the drafting for this project. | | | |
| 10/10 – 12/10 | Federal City Right-of-Way Survey, New Orleans, LA: Linfield, Hunter & Junius, Inc. provided civil design for the Department of Defense MARFORRES facility in Algiers, LA. The project included a resubdivision of the property for the addition of the Coast Guard. Ms. Troxclair was in responsible charge of the drafting for this project. | | | |
| 08/11 – 08/14 | Amite River Basin Commission- Comite River Diversion Project, East Baton Rouge Parish, LA: Linfield, Hunter & Junius, Inc. is providing right-of-way surveys in connection with the Comite River Diversion Canal. The ARBC is acquiring right-of-ways for the project and Linfield, Hunter & Junius, Inc. is providing the surveying for the project. Ms. Troxclair was in responsible charge of the drafting for this project. | | | |

16. Staff Experience:**Additional Support - Survey**

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| Firm employed by Linfield, Hunter & Junius, Inc. | | | MPR 5 |
| Name | Nathan J. Junius, P.E., P.L.S. | | Years of relevant experience with this employer 20 |
| Title | Vice President / Principal | | Years of relevant experience with other employer(s) 0 |
| Degree(s) / Years / Specialization | | BS / 2001 / Civil Engineering MS / 2002 / Civil Engineering | |
| Active registration number / state / expiration date | | PE.0031843 / LA / 09/30/2023 PLS.0004958 / LA / 09/30/2023 | |
| Year registered | 2005; 2006 | Discipline | Civil Engineering; Land Surveying |
| Contract role(s) / brief description of responsibilities | | Surveyor; Meets all requirements on MPR 5 | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| <p>Junius attended Tulane University from 1997-2001. After Graduating in May of 2001, Junius attended the University of Texas at Austin where he graduated with a MS degree in Civil Engineering in August of 2002 with an emphasis in Water Resource. Mr. Junius also completed additional classes in the Nicholls State University Geomatics curriculum to further his land surveying knowledge. One of his largest surveying projects includes the hydrographic and topographic surveying for the Inner Harbor Navigation Canal (IHNC) Lake Borgne Surge Barrier which included over a mile and half of hydrographic surveying through the marsh including topographic surveying for two gates.</p> <p>Mr. Junius has been responsible for survey operations and daily direction of the survey crew. He was also responsible for the QA/QC of multibeam deliverables. Mr. Junius has provided virtual reference station (VRS)/ real time kinematic (RTK) surveys and 3rd Order Levels for Control as well as hydrographic multibeam surveys. Deliverables included an EM Files, ASCII Files, XYZ Files and a detailed survey report.</p> <p>Mr. Junius is proficient with Leica Dual Frequency RTK Rovers, Leica DNA03 Digital Auto Level, Leica GPS Base Station, G-882 Magnetometer Leica Total Robotic Total Station, Leica Geo Office, Carlson Survey/Civil Software, Autocad 2016 and Civil 3D.</p> <p>Junius has conducted numerous boundary, topographic, resubdivision surveys, route surveys, ALTA surveys, hydrographic surveys, utility surveys throughout Louisiana, Mississippi and Texas. Relevant Training: ATSSA – Traffic Control Technician/Supervisor; ATSSA – Traffic Certified Flagger</p> | | | |
| 10/21 - Present | Chris Kennedy Road Bridge, Pearl River, LA Lead Land Surveyor for topographic survey for the removal and replacement of the Chris Kennedy Road Bridge. Approximately 1,000 feet of survey on the upstream and downstream sides of the bridge. | | |

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| 10/18 - 05/19 | Causeway Boulevard Survey (Metairie Road to West Napoleon Avenue), Metairie, LA LHJ performed a full topographic survey of Causeway Blvd. between Metairie Rd. and W. Napoleon Ave. (5700 L.F. approximately). Existing improvements, utilities, limits of paving, fencing, sidewalks, and signage were located. Cross Sections were performed every 50 ft. and a plan and profile drawing of Causeway Blvd and the adjacent service roads was delivered. |
| 06/20 - 12/20 | Bonnabel Boulevard Survey (Metairie Road and I-10 Service Road), Metairie, LA LHJ performed a full topographic survey of Bonnabel Blvd. between Metairie Rd. and I-10 (3900 LF. Approximately). Existing improvements, utilities, limits of paving, fencing, sidewalks, and signage were located. Cross Sections were performed every 50 ft. and a plan and profile drawing of Bonnabel Blvd was delivered. |
| 08/14 – 09/18 | Canal Street Roadway Improvements Topographic Survey, Metairie, LA Lead Land Surveyor for topographic surveying for Canal St. Roadway Improvements between the I-10 Service Rd. and the 17th Street Canal. The survey was used as the basis for the roadway improvements design. |
| 04/96 – Ongoing | Magazine Street Topographic Survey, New Orleans, LA Lead Land Surveyor for topographic surveying for Magazine Street Improvements between Broadway and Nashville. The survey was used as the basis for the roadway improvements design. Lead Land Surveyor for providing topographic surveying for Magazine Street Improvements between Leake Avenue and East Drive. The survey will be used as the basis for the roadway improvements design. |
| 11/03 – 10/17 | St. Charles Avenue, New Orleans, LA Lead Land Surveyor for topographic surveying for the overlay at St. Charles Avenue between Napoleon Avenue and Calliope Street. The survey was used as the basis for the roadway improvements design. |

16. Staff Experience:**Additional Support - Survey**

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| Firm employed by Linfield, Hunter & Junius, Inc. | | | | |
| Name | Paul H. Morales, IV | | Years of relevant experience with this employer | 8 |
| Title | Party Chief | | Years of relevant experience with other employer(s) | 0 |
| Degree(s) / Years / Specialization | | | BS / 2013 / Civil Engineering | |
| Active registration number / state / expiration date | | | N/A | |
| Year registered | N/A | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | | Party Chief | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | | |
| <p>Morales has been a survey crew member on many topographic, boundary and hydrographic surveys. Morales has both civil engineering design experience and resident inspection experience. During two summers while still in college, he often served as an LH&J survey crew member. He was a design engineer for civil site work on numerous CVS/Pharmacy and Dollar General store sites. Large Scale Topographical and ALTA Surveys for U.S. Army Corps of Engineers, Plaquemines Parish Government, and a major pharmacy chain. Elevation, Construction Layout and Pile Layout, GPS, Robotics, Total Station experience including data transfer, plotting, and printing. Manual and Mechanical Traffic Counts. TWIC. Relevant Training: ATSSA – Traffic Control Technician/Supervisor; ATSSA – Traffic Certified Flagger</p> | | | | |
| 02/07 – 08/12 | <p>Inner Harbor Navigation Canal Surge Protection Barrier, Orleans Parish, LA: Provided surveying services including locating borings in the field and providing elevations with latitude and longitude coordinates. The USACE baselines were located and tied into the project control to provide station and offset data. Benchmarks were occupied and set for project control. Existing and final cross sections were taken providing cut/fill quantities, station and offset data for 36-inch diameter pipe piles were provided for QA/QC measures. Morales performed as a survey party technician for the accurate collection of all field survey data and reviewed the developed survey files and drawings for consistency with New Orleans District Minimum Survey Standards. Construction cost >\$1.5B</p> | | | |
| 09/10 – 02/12 | <p>HSDRRS Levee Profiles for Southeast Louisiana Flood Protection Authority – East – Lake Pontchartrain Levee System: Approximately 63 miles of earthen levee centerline profile surveys in Jefferson, Orleans and St. Bernard Parish using tilt rover and base stations. Project compared the existing profile elevations to the design profile elevations.</p> | | | |

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| 11/03 – Ongoing | Southshore Harbor, New Orleans, LA Hydrographic survey of approximately 150 acres in Southshore Harbor including portions of the navigation channel and Lake Pontchartrain. Included cross sections and profiles of approximately 10 acres of the north peninsula floodwall for a potential dredge spoil area. |
| 06/18 – Ongoing | Avondale Shipyard Redevelopment, Avondale, LA Hydrographic surveys for 2 miles of the Mississippi River in front of the existing docks. USACE Baseline profile surveys and cross sections. Included batture surveys and topographic surveys of existing lay down areas. |
| 04/96 - Ongoing | Magazine Street Topographic Survey, New Orleans, LA LH&J provided topographic surveying services for the project that consisted of the reconstruction of 12,500 linear feet of 35' wide roadway, including removal of over 18,720 linear feet of streetcar tracks that are buried under Magazine Street, construction of new concrete roadway, replacement of the storm drainage system, sewer lines and water mains. Role: Survey Party |

16. Staff Experience:**Additional Support - Environmental**

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| Firm employed by: ELOS Environmental, LLC | | | |
| Name | Lucas Watkins | | Years of relevant experience with this employer 15 |
| Title | President/Environmental Scientist | | Years of relevant experience with other employer(s) 7 |
| Degree(s) / Years / Specialization | | MS / 2005 / Biological Sciences BS / 2000 / Forest Management | |
| Active registration number / state / expiration date | | N/A | |
| Year registered | 2010 | Discipline | Environmental Scientist / Arborist |
| Contract role(s) / brief description of responsibilities | | Environmental Scientist Lucas Watkins is the President and founding Principal of ELOS. His experience includes environmental regulatory compliance and project management. This includes the management of large-scale, multi-faceted projects, such as disaster recovery debris removal efforts, wetland restoration implementation, government grant management, and complex construction projects. Mr. Watkins serves as the quality control manager overseeing all projects to ensure that the client's needs are met in a timely and cost-efficient manner. | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| 01/17 – 11/20 | LA 3234 EXTENSIONS TO HAMMOND AIRPORT ENVIRONMENTAL ASSESSMENT Mr. Watkins acted as the principal in charge of overseeing this project providing guidance along the way. | | |
| 08/17 – 01/18 | I-10 HIGHLAND TO LA 73 DESIGN BUILD Mr. Watkins was the principal on this project overseeing all aspects of the project to ensure efficiency and quality work. | | |
| 10/17 – Present | MOVE ASCENSION Mr. Watkins oversees ELOS staff to perform the wetland delineations, as well as cultural resource field investigations. Mr. Watkins has also assisted Mr. Prather and ELOS team with permitting for all roadway permits as part of the Move Ascension project. | | |

16. Staff Experience:

Additional Support - Environmental

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| Firm employed by: ELOS Environmental, LLC | | | |
| Name | James "Jay" Prather III | Years of relevant experience with this employer | 16 |
| Title | Vice President/Environmental Scientist | Years of relevant experience with other employer(s) | 6 |
| Degree(s) / Years / Specialization | | BS / 2005 / Biology | |
| Active registration number / state / expiration date | | N/A | |
| Year registered | N/A | Discipline | N/A |
| Contract role(s) / brief description of responsibilities | | Environmental Scientist James "Jay" Prather III, Vice President and co-founding Principal of ELOS, has over 20 years of experience as a professional consultant. Mr. Prather is experienced in government grant management as well as large-scale program and project management, and has extensive experience permitting complex, and often time sensitive projects such as bypass and toll roads, large-scale residential developments, disaster recovery debris removal efforts, and governmental infrastructure expansion projects. Mr. Prather serves as an experienced consultant guiding personnel through complex permitting projects and working with clients to determine what is needed for each project. | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| 10/17 – Present | MOVE ASCENSION Mr. Prather provides his input and expertise to the environmental scientists at ELOS to assist with permitting for all roadway permits as part of the Move Ascension project. | | |
| 08/16 – Present | NEW ORLEANS TO VENICE (NOV)–NON-FEDERAL LEVEES (NFL) DRAINAGE IMPROVEMENTS SEA #537 AND PERMITTING Mr. Prather has assisted with monitoring the tasks performed which have included T&E surveys, delineations and assessments of jurisdictional wetlands, habitat characterizations, and environmental impact analyses. Mr. Prather, along with the ELOS team, prepared a draft Environmental Assessment (EA) and ran the Wetlands Value Assessment model (WVA) to calculate Average Annual Habitat Units (AAHUs) to be used in the mitigation process. Mr. Prather has also worked closely with ELOS staff to conduct routine conversations with the USACE and other state and federal agencies to discuss any needed information to ensure the project is being performed efficiently. | | |
| 01/15 – 01/18 | ST. TAMMANY DRAINAGE SYSTEM MAINTENANCE AND UPGRADE PERMITTING Mr. Prather oversaw all of the technical and regulatory work throughout the process of this project. | | |

16. Staff Experience:**Additional Support - Environmental**

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| Firm employed by: ELOS Environmental, LLC | | | | |
| Name | Brian Fortson | | Years of relevant experience with this employer | 6 |
| Title | Senior Environmental Scientist | | Years of relevant experience with other employer(s) | 25 |
| Degree(s) / Years / Specialization | | Juris Doctorate / 2006 / Civil cum laude BS / 1995 / Wetland Ecology | | |
| Active registration number / state / expiration date | | N/A | | |
| Year registered | N/A | Discipline | N/A | |
| Contract role(s) / brief description of responsibilities | | Environmental / Permit Specialist Mr. Fortson has years of experiencing working with regulatory agencies and navigating the permitting process for a variety of projects. Mr. Fortson serves as the Senior Environmental Scientist at ELOS, providing his technical expertise and environmental knowledge for permitting efforts. | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | | |
| 2019 – present | LADOTD RURAL BRIDGE REPLACEMENTS Mr. Fortson provides guidance to field biologists on identifying species and navigating permitting processes. | | | |
| 05/17 – 07/17 | KINGS ROAD BRIDGE REPLACEMENTS Mr. Fortson was responsible for environmental compliance for the replacement of the bridge over Wrights Creek in northern St. Tammany Parish. His work included the supervision of field investigations and impact analysis for natural and cultural resources. He also prepared the Gopher Tortoise Inspection Report and coordinated with US Fish and Wildlife Service to secure concurrence on a finding of no effect. | | | |
| 08/17-07/18 | LAND USE AND TRANSPORTATION STUDY HARRISON AVE EXT Mr. Fortson assisted in the preparation of a DOTD Stage 0 Environmental Checklist for the extension of Harrison Avenue in Abita Springs from LA 59 to LA 36, a distance of 1.7 miles. Desktop and field data were collected to identify relevant resources in the project area. He assisted in the identification of land use, wetlands, community facilities, recreational assets, historic and cultural sites, hazardous waste sites. | | | |
| 2017 | LA 3234 EXTENSION TO HAMMOND AIRPORT ENVIRONMENTAL ASSESSMENT Mr. Fortson is responsible for the supervision of fieldwork, wetlands delineation, biological surveys, and Section 404 application for three alternative alignments being studied for the extension of E. University Avenue from LA 1065 to the Hammond Airport. He provided the wetlands value assessment (WVA) to estimate mitigation costs for unavoidable impacts to wetlands. | | | |

16. Staff Experience:

Additional Support - Environmental

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| Firm employed by: ELOS Environmental, LLC | | | |
| Name | Cory Ricks | | Years of relevant experience with this employer |
| Title | Environmental Scientist / Field Crew Manager | | Years of relevant experience with other employer(s) |
| Degree(s) / Years / Specialization | | BS, 2015, Environmental Biology, Southeastern Louisiana University, Hammond, LA | |
| Active registration number / state / expiration date | | N/A | |
| Year registered | N/A | Discipline | N/A |
| Contract role(s) / brief description of responsibilities | | Environmental Scientist / Field Crew Manager Mr. Ricks has led wetland delineation efforts for multiple projects for local development, mitigation banks, and infrastructure developments. Mr. Ricks has provided assistance with NEPA documentation, permitting, wetland delineations, GIS mapping and culture resource for a variety of projects. Mr. Ricks is responsible for leading wetland delineations and managing ELOS's team of environmental scientist, field biologists, and data processors who complete | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| 01/17 – 11/20 | LA 3234 EXTENSION TO HAMMOND AIRPORT ENVIRONMENTAL ASSESSMENT Mr. Ricks performed the wetland delineation for all three routes and provided a report of the findings. Mr. Ricks also provided assistance for GIS mapping of the Wetlands Findings Report, Phase 1 Environmental Assessment Survey, and the Biological Assessment Survey. Mr. Ricks also provided a report of the threatened and endangered species known in the project area. Mr. Ricks led efforts on providing stream and waterbody data for each report. | | |
| 08/20 – Present | DOTD RURAL BRIDGE REPLACEMENTS Mr. Ricks serves as the project manager for this project, ensuring that the work is completed on time and within budget and meets the requirements set by regulatory agencies. | | |
| 07/21 – Present | CITY OF KINDER DRAINAGE IMPROVEMENTS Mr. Ricks provided assistance to Allen parish for the removal of woody and other accumulated debris in the waterways to restore drainage capacity and function. Mr. Ricks coordinated and corresponded with government agencies to obtain the necessary permits to allow the Parish to clear debris from the parish's waterways. His efforts in the project include: obtaining environmental permits (USACE, DNR CUP, and LDWF Scenic Rivers), identifying jurisdictional wetlands, obtaining and recording data for Damage Survey Reports, and completing wetland delineations. | | |

16. Staff Experience:

Additional Support - Environmental

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| Firm employed by: ELOS Environmental, LLC | | | |
| Name | Jesse McQuigg | Years of relevant experience with this employer | 7 |
| Title | GIS Manager | Years of relevant experience with other employer(s) | 2 |
| Degree(s) / Years / Specialization | Drafting Design, 2014, Northshore Technical College, Hammond, LA | | |
| Active registration number / state / expiration date | N/A | | |
| Year registered | N/A | Discipline | N/A |
| Contract role(s) / brief description of responsibilities | GIS (Geographical Information Systems) Manager Almost all ELOS projects begin with data collection and mapping. As such, Mr. McQuigg and his team touch every project providing data collection and mapping services for clients. Mr. McQuigg has experience with ArcGIS Online, Collector of ArcGIS, Survey 123, Expert GPS, BaseCamp, and Google Earth. With the use of these software programs, he collects and interprets field data in support of environmental analyses and impact assessments. Mr. McQuigg is responsible for leading the GIS team to collect data and create maps. The figures and maps he and his staff generate are vital to the development of National Environmental Policy Act (NEPA) documentation, Threatened and Endangered (T&E) Species Surveys, Wetlands Delineations and Jurisdictional Determinations, Phase I Environmental Site Assessments, Section 404/10 and Coastal Use Permit applications, and wetlands assessment models. | | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| 01/17 – 11/20 | LA 3234 EXTENSION TO HAMMOND AIRPORT ENVIRONMENTAL ASSESSMENT Mr. McQuigg managed and conducted data collection from multiple sources to establish field data collection points for the wetland’s delineation and habitat identification through soil and terrain types. Mr. McQuigg post-processed GPS coordinates identifying the location of sample plots and sensitive areas that were provided to the client as GIS shapefiles for use in a comparative impact analysis. | | |
| 01/15 – 01/16 | US 51 (LA 22 TO CLUB DELUXE ROAD) DRAFT EA, PHASE I ESA, AND BIOLOGICAL SURVEY REPORT Mr. McQuigg provided data analysis of figure designs constructed in AutoCAD and ArcGIS. He developed maps using remote sensing aerial imagery and geographic information systems for the environmental assessment, wetlands delineations, Phase I ESA, and biological studies including gopher tortoise and red-cockaded woodpecker habitat analysis. | | |
| 12/16 – Present | JEFFERSON TRANSIT BUS STOP IMPROVEMENTS DISTRICTS 1, 2, 4, AND 5 Mr. McQuigg manages the use of GIS, specifically utilizing Survey123 to collect data and images for real-time analysis and use in the planning processes. | | |

16. Staff Experience:**Additional Support - Geotechnical**

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| Firm employed by: Terracon | | | |
| Name | Steve Greaber, P.E. | | Years of relevant experience with this employer 14 |
| Title | Principal Sr. Geotechnical Engineer | | Years of relevant experience with other employer(s) 18 |
| Degree(s) / Years / Specialization | | BS / 1989 / Civil Engineering | |
| Active registration number / state / expiration date | | Professional Engineer: LA 26107 – 09/30/2023 | |
| Year registered | 1995 | Discipline | Civil Engineering |
| Contract role(s) / brief description of responsibilities | | Geotechnical Project Manager Mr. Greaber has over 31 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 improvement of consolidation. Other areas of expertise include geotechnical seismic evaluations and liquefaction mitigation. | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| 05/18 – current | H.005967: Nelson Road Extension and Bridge, Lake Charles, LA, DOTD. Mr. Greaber is serving as the Senior Geotechnical Engineer for 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. | | |

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| 07/18 - Ongoing | <p>H.011235.5: I-49 South @ Verot School Road US 90, Lafayette, LA, DOTD.</p> <p>Mr. Greaber is serving as the 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.</p> |
| 06/17 – 10/18 | <p>H.010006: Bayou Petit Caillou Bridge Improvements, Chauvin, LA, DOTD.</p> <p>Mr. Greaber served as the Senior Geotechnical Engineer in 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.</p> |
| 02/14 – 02/17 | <p>H.010620: US 90 (I-49 South) Design Build, LOCATION, LA, C.H. Fenstermaker</p> <p>Mr. Greaber served as the Senior Geotechnical 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.</p> |
| 01/15 – 02/16 | <p>H.010719: US 90 Ramp Improvement, Orleans Parish, LA, DOTD</p> <p>Mr. Greaber served as the Senior Geotechnical Engineer in 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. DOTD boring logs and LRFD Pile Resistance Calculations were provided to the design engineer.</p> |

16. Staff Experience:**Additional Support - Geotechnical**

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| Firm employed by: Terracon | | | |
| Name | Lynne Roussel, P.E. | | Years of relevant experience with this employer 16.5 |
| Title | Geotechnical Department Manager | | 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: LA 35152 – 03/31/2022 | |
| Year registered | 2009 | Discipline | Professional Engineer (Civil) |
| Contract role(s) / brief description of responsibilities | | Geotechnical Project Manager | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| <p>Ms. Roussel has managed geotechnical projects for 16.5 years. She has performed engineering analyses using in-house computer resources as well as commercial software used for settlement analysis, deep foundations analysis, pavement design, slope stability analysis, and lateral loading of deep foundations. Ms. Roussel 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 the following software: PCSTABL6, GEOSLOPE, LPILE, DRIVEN, SHAFT, Shoring Suite, WINPAS and Darwin.</p> | | | |
| 07/16 – 07/21 | Louisiana Department of Transportation Geotechnical Retainer Contract No. 4400006191 , LA, DOTD Ms. Roussel serves as the contract manager and Project Reviewer for the retainer contract for services to perform geotechnical exploration and engineering. The contract value is \$4 Million. | | |
| 06/19 – 3/20 | H.004100 I-10 Widening, Baton Rouge, LA, DOTD Ms. Roussel has served as Senior Engineer in the subsurface evaluation and lab testing. All testing was performed in accordance with LADOTD sampling and guidelines. The team had to work around traffic and lane closures on the interstate near College Drive. | | |
| 05/18 – 09/20 | H.011235.5: I-49 South @ Verot School Road US 90, Lafayette, LA, DOTD Ms. Roussel served as project manager. She oversaw 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. | | |

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| 04/19 – 09/20 | Sarasota Drive Bridge, Baton Rouge, LA, GEC Ms. Roussel served as project manager of the geotechnical exploration project which included the advancement of 2 test borings to approximately 100 feet below existing site grades. Pile capacities were developed for the bridge bents. |
| 07/18 – 12/18 | H.009481 LA 20 Bayou Chevreuil Bridge, St. James Parish, LA, DOTD Ms. Roussel has served as project manager in the subsurface evaluation and lab testing. Reviewed all pile capacity calculations and settlement analysis for approach embankment and roadway embankment widening. All testing was performed in accordance with LADOTD sampling and guidelines. |
| 10/16 – 01/18 | H.002238 Robinson Canal Bridge, Terrebonne Parish, LA, DOTD Ms. Roussel served as project manager and provided geotechnical engineering services for the project that included field exploration, laboratory testing and geotechnical engineering for the bridge. Pile capacities were developed for the bridge bents. |
| 01/12 – 01/13 | H.009187.5 – 23rd Street Bridge over Canal No. 17, Jefferson Parish, LA, DOTD Ms. Roussel served as project engineer in the subsurface evaluation and engineering design of this DOTD Off System Bridge project. The bridge at 23rd Street over Canal No. 17 was replaced. DOTD boring logs and LRFD Pile Calculations were provided to the design engineer. |
| 01/10 – 01/12 | H.0051.21 - LA-1 to I-10 Connector, Port Allen, LA, DOTD Ms. Roussel served as project manager for the design of a new connector between LA 1 and I-10 near the Intracoastal Canal in West Baton Rouge Parish, Louisiana. The project consisted of a bridge over the Intracoastal Canal, a flyover connector to LA-1 and associated roadway. Soil borings and Cone Penetrometer Test (CPT) probes associated with the bridges and roadway were completed. All calculations were consistent with DOTD pavement design standards. Settlement analysis was performed for the approach embankments. Pile capacities were also provided for the elevated structure. |

16. Staff Experience:**Additional Support - Geotechnical**

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| Firm employed by: Terracon | | | |
| Name | Matt Minton | | Years of relevant experience with this employer 19 |
| Title | Department Manager Laboratory Services | | Years of relevant experience with other employer(s) 0 |
| Degree(s) / Years / Specialization | | Associate Degree / 2001 / Design Drafting Technology | |
| Active registration number / state / expiration date | | N/A | |
| Year registered | N/A | Discipline | N/A |
| Contract role(s) / brief description of responsibilities | | Laboratory Manager Matt has 19 years of experience in laboratory testing and construction QA/QC testing for geotechnical projects, civil construction and landfill construction. Mr. Minton currently serves as the Laboratory Manager of Terracon's Baton Rouge full-service geotechnical and construction materials laboratory. Mr. 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. | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| 06/20 – 01/21 | H.005121 LA-1 and LA-415 Connector, Port Allen, Louisiana, DOTD Served as lab manager on this project. | | |
| 06/19 – 01/20 | H.004100: I-10- Widening East Baton Rouge Parish, Louisiana DOTD Served as lab manager on this project. | | |
| 07/18 – 10/18 | H.011235.5: I-49 South @ Verot School Road US 90 Lafayette, Louisiana, DOTD Served as lab manager on this project. | | |
| 06/18 – 08/18 | H.005967.5: Nelson Rd. Extension and Bridges, Calcasieu Parish, Louisiana, DOTD Served as lab manager on this project. | | |
| 06/17 – 02/18 | H.002980.5: I-10 Overpass US 165 & MPRR, Project; Iowa, Louisiana, DOTD Served as lab manager on this project. | | |
| 03/17 – 04/17 | H.001140 LA 124: Hooter Creek Bridge, Jena, Louisiana, DOTD Served as lab manager on this project. | | |

16. Staff Experience:

Additional Support - Geotechnical

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| Firm employed by: Terracon | | | |
| Name | Brian Alexander | | Years of relevant experience with this employer 15 |
| Title | Drilling Operations Manager | | Years of relevant experience with other employer(s) 0 |
| Degree(s) / Years / Specialization | | Master of Physical Therapy / 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 | | Drilling Operations Manager Brian manages the geotechnical drilling operations for Louisiana and Mississippi. 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. Mr. Alexander has met the Louisiana DOTD work zone training requirements of Traffic Control Supervisor and the Traffic Control Flagger Instructor. Relevant Training: Work Zone Traffic Control Supervisor, Work Zone Traffic Control Flagger, Instructor. | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| 06/19 – 11/19 | H.004100: I-10- Widening East Baton Rouge Parish, Louisiana, DOTD Mr. Alexander has supervised drill crews and worked in the field as a logger. | | |
| 05/18 – 06/18 | H.005967.5: Nelson Rd. Extension and Bridges, Calcasieu Parish, Louisiana, DOTD Mr. Alexander has supervised drill crews and worked in field as a logger for water borings. | | |
| 10/18 – 07/19 | H.011235.5: I-49 South @ Verot School Road US 90, Lafayette, Louisiana, DOTD Mr. Alexander has supervised drill crews. | | |
| 02/10 – 5/11 | LA 1/Interstate 10 Connector, Port Allen, Louisiana, DOTD Mr. Alexander has supervised drill crews. | | |
| 05/08 – 03/09 | I-12 Widening – East Baton Rouge and Livingston Parishes, Louisiana, DOTD Mr. Alexander served as field supervisor for this contract. | | |
| 11/04 – 07/12 | Off System Bridges throughout Louisiana, DOTD Mr. Alexander has supervised drill crews and worked in the field as a logger on several of these projects. | | |
| 01/17 – 01/17 | H.001140 LA 124: Hooter Creek Bridge; Jena, Louisiana, DOTD Mr. Alexander served as field supervisor for this project. | | |

16. Staff Experience:**Additional Support – Traffic Analysis**

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| Firm Employed By: Stanley Consultants, Inc. | | | |
| Name: | Blake Roussel, P.E., PMP | | Years of relevant experience with this employer: |
| Title: | Project Principal | | Years of relevant experience with other employer(s): |
| Degree(s) / Years / Specialization: | BS / 2003 / Civil Engineering | | |
| Active Registration Number / State / Expiration Date: | PE.0033279 / LA / March 2023 | | |
| Year Registered: | 2007 | Discipline: | Civil Engineering |
| Contract role(s) / brief description of responsibilities: | | Blake will serve as Project Principal on this contract. Blake will lead our team with overall contract management, resource allocation, Quality Assurance (QA)/Quality Control (QC) processes, client needs, and attending meetings as necessary. Prior to joining Stanley Consultants, Blake gained valuable transportation experience while employed by LaDOTD which he will use to focus and direct our team into a successful completion of this contract. | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| Blake’s relevant experience includes serving as Project Manager and Senior Transportation Engineer providing project oversight; overseeing project schedules and cost analysis; overall supervision of subconsultants and in-house engineers performing the survey, design and plan preparation; coordination with the owner and stakeholders; QA/QC; checking compliance with design criteria; and completing all required forms and documents in support of the plan package. His design experience includes geometrics, earthwork, drainage, utilities relocation, traffic control, quantities computations, cost estimating, preparation of final contract documents, development of three-dimensional roadway models, and roadway design using MicroStation. | | | |
| 01/17 – 09/20 | LADOTD, Bootlegger Road Mill and Overlay and Bootlegger Road Bridge Design, St. Tammany Parish, LA; St. Tammany Parish Government: Serving as Project Principal, Blake was responsible for resource allocation, overall project performance, and tending to client needs as they arise. Scope of work included approximately 3-miles of mill and overlay, bridge replacement over Timber Branch Creek, and a shared-use path connecting LA 1077 to LA 21. | | |
| 05/19 – 07/20 | LaDOTD/Buchart Horn, Inc, LA 117 Between LA 8 and LA 118 Bridge Study, Statewide LA.: Blake was transitioned into the project management role during the project execution phase. His responsibilities included monitoring adherence to the scope of work, budget and schedule. Blake coordinated with the prime consultant regarding scope, schedule, budget and invoicing. Additionally, he performed QA/QC on project deliverables. As a sub-consultant the Stanley Consultants scope of work included evaluation and concept plan productions for bridge alternatives for five bridges along the LA 117 corridor located in Vernon Parish to tie-in to new roadways. | | |

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| 09/16 – 05/21 | LADOTD, I-12, LA 21 to US 190 Widening Design, St. Tammany Parish, LA: Serving as Project Principal, Blake was responsible for overall contract management, resource allocation, Quality Assurance (QA)/Quality Control (QC) processes, client needs, and attending meetings as necessary. Additional responsibilities included QC of plans, project coordination, and scheduling. |
| 06/18 – 01/21 | LADOTD, US 61: Bluebonnet Blvd to S. End US 190, Baton Rouge, LA: As Project Manager, Blake was 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. Stanley Consultants was contracted by the 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. |
| 06/15 – Ongoing | LADOTD, LA 675 & LA 87 Improvements, New Iberia, LA: Serving as Project Manager, Blake is 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. The project includes installation of a parallel subsurface drainage trunkline to reduce frequent street and area flooding. The project also requires roadway reconstruction and mill and overlay of existing pavement. |

16. Staff Experience:**Additional Support – Traffic Analysis**

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| Firm Employed By: Stanley Consultants, Inc. | | | |
| Name: | Jesse Tisdale, P.E. | | Years of relevant experience with this employer: 3 |
| Title: | Senior Civil Engineer | | Years of relevant experience with other employer(s): 6 |
| Degree(s) / Years / Specialization: | | BS / 2013 / Civil Engineering | |
| Active Registration Number / State / Expiration Date: | | PE.0040972 / LA / March 2023 | |
| Year Registered: | 2016 | Discipline: | Civil Engineering |
| Contract role(s) / brief description of responsibilities: | | Jesse will serve as Project Manager for this contract. Jesse will be responsible for providing oversight on all aspects of engineering design and related services including roadway design, signing and striping, maintenance of traffic, and suggested sequence of construction plans (MOT). Jesse has his TCT and TCS certifications. | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| Jesse has nine years of relevant transportation experience. He will lead the Stanley Consultants design team with a focus on the coordination of all design elements and the production of a high-quality, biddable set of plans and construction documents. He is well suited for this assignment having completed the design and roadway construction plan preparation for numerous major local roads, state highways and interstate highway projects designed to LaDOTD specifications and standards. His projects have involved both asphalt and concrete roadways and have encompassed new boulevard typical roadway sections, new alignments, realignments, reconstruction and widening and intersection improvements. | | | |
| 09/16 – 05/21 | LADOTD, I-12: LA 21 to US 190 & I-12: LA 1077 to LA 21, St. Tammany Parish, LA: Serving as Project Manager, Jesse was 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 project manager duties including coordination, QC of plans and design, project coordination and scheduling. Design tools used for this project included MicroStation, Inroads, CADConform, Bentley InRoads, DOTD HydrWIN and Microsoft Project. | | |
| 04/17 – 09/21 | LADOTD, US 171 at Boone St. Roundabout, Vernon Parish, LA: Serving as Project Manager, Jesse was responsible for assisting the design of a three-legged multi-lane roundabout and multiple intersection improvements along US 171. Tasks also included, budgeting, project cost estimation, utility coordination, and QA for the design and construction plans. This project involved 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. | | |

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| <p>04/17 – 05/21</p> | <p>LADOTD, LA 30 Roundabouts at Tanger & I-10, Ascension Parish, LA: Serving as Deputy Project Manager/Lead Design Engineer then transitioning into the Project Manager role, Jesse was responsible for providing oversight for all necessary engineering and related services required for the design of three multi-lane roundabouts along LA 30 at the heavily traversed commercial interchange at I-10 in Gonzales, LA. Jesse also provided QA of typical sections, pedestrian and bicycle design, roadway geometrics, roundabout geometrics, drainage design and driveway details for this project.</p> |
| <p>04/16 – 01/18</p> | <p>Dijon Drive Extension Phase I & II, East Baton Rouge Parish, LA Confidential Client: Serving as Project Manager/Lead Designer, Jesse was responsible for a proposed four-lane divided highway project between Essen Lane and Bluebonnet Boulevard. Project management responsibilities included budget coordination with local, city and state agencies, design and construction scheduling, coordination to prevent conflict from major construction in the surrounding areas, and coordinating subsurface drainage. Design responsibilities included the geometric roadway design, roadway modeling and overseeing drainage design.</p> |
| <p>11/16 – 12/17</p> | <p>LA 30: South Blvd. to W. Chimes, Baton Rouge, LA; LaDOTD: Project Manager and lead designer responsible for the preliminary design, preliminary plan development and planning coordination of the project. The overall project included pavement patching, full curb replacement, re-establishment of the grass medians, additional drainage, access management implementation, addition of pedestrian facilities, relocation of the existing I-10 Nicholson ramp termini, and a complete asphalt overlay on 1.5 miles of Nicholson Drive. This project included the addition of drainage to a complicated and limited existing drainage system.</p> |

16. Staff Experience:***Additional Support – Traffic Analysis***

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| Firm Employed By: Stanley Consultants, Inc. | | | |
| Name: | Adam Fields, P.E. | | Years of relevant experience with this employer: 4 |
| Title: | Senior Transportation Engineer | | Years of relevant experience with other employer(s): 12 |
| Degree(s) / Years / Specialization: | | BS /2005 / Civil Engineering | |
| Active Registration Number / State / Expiration Date: | | PE.0035614 / LA / September 2022 | |
| Year Registered: | 2010 | Discipline: | Civil Engineering |
| Contract role(s) / brief description of responsibilities: | | Adam will serve as Lead Road Design Engineer responsible for roadway design, maintenance of traffic, and suggested sequence of construction plans (MOT). Adam's experience performing complex MOT will be utilized on this contract. | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| Adam has 16 years of specialized transportation design experience for local roads, state highways and interstate highways. His experience includes development of traffic control and staging plans; roadway alignment studies; development of horizontal and vertical geometrics; typical sections; intersection details; roadway drainage calculations, earthwork design; 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 and InRoads software. Adam will implement his experience developing suggested sequence of construction plans in a lead road design engineer role for this project. | | | |
| 01/14-10/16 | IDIQ for Bridge Inspection Services, LA; LaDOTD H.013076 US 90 Over I-10: Lockmoor Flyover; US EB at I-10, Calcasieu Parish, LA; LaDOTD H.011494 US 90 Over Atchafalaya River; US 90 at LA 182; St. Mary Parish, LA; LaDOTD H.009630 Ted Hickey Bridge Inspection; Leon C. Simon Boulevard, Orleans Parish, LA; LaDOTD H.013052 LA 442 Emergency Bridge Replacement, Tangipahoa Parish, LA; LaDOTD H.013052 US 90 Over LA 14: US 90 at LA 14; Iberia Parish, LA; LaDOTD Serving as roadway engineer, Adam was responsible for implementing maintenance of traffic while bridge inspections and repairs were under construction into the plans for numerous task orders under this IDIQ contract for Bridge Inspection Services. Adam designed suggested sequence of construction according to LaDOTD standards including temporary signing and striping plans and quantities, detours and alternate route plans, temporary sections, and general sequencing notes. Also designed roadway components for bridge design contracts as necessary. | | |

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| <p>09/16 – 05/21</p> | <p>I-12, LA 1077 to US 190 Widening Design, St. Tammany Parish, LA; LaDOTD: Serving as Roadway Engineer, Adam was responsible for horizontal and vertical alignment, typical sections, sequence of construction with 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. Stanley Consultants performed roadway design, modeling, DOTD formatting, and CADConform compliance. The LaDOTD requested an expansion of the project that included the addition of the auxiliary lane to the exit inclusive of the roadway widening two lane ramps.</p> |
| <p>04/17 – 05/21</p> | <p>LA 30 Roundabouts at Tanger & I-10, Ascension Parish, LA; LaDOTD: Serving as Roadway Engineer, Adam was 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 MOT design, QA of typical sections, pedestrian and bicycle design, roadway geometrics, roundabout geometrics, drainage design, and driveway details for this LaDOTD Project. This project scope involves engineering and related services to develop construction plans for a reconstruction of LA 30 from near Isom Sanders Rd. to Veterans Boulevard.</p> |
| <p>04/17 – 09/21</p> | <p>US 171 at Boone St., LaDOTD, Vernon Parish, LA; LaDOTD: Serving as Lead Roadway Design Engineer, Adam was responsible for plan development, engineering design of sequence of construction and maintenance of traffic, temporary typical sections, temporary pavement markings and minimum construction signing, erosion control plans and permanent pavement marking and signing layout according to LaDOTD minimum design guidelines and standards.</p> |

16. Staff Experience:**Additional Support – Traffic Analysis**

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| Firm Employed By: Stanley Consultants, Inc. | | | | |
| Name: | Jared Blohowiak, EI | | Years of relevant experience with this employer | 3 |
| Title: | Engineer-In-Training 2 | | Years of relevant experience with other employer(s) | 1 |
| Degree(s) / Years / Specialization: | | | BS / 2017 / Civil Engineering | |
| Active Registration Number / State / Expiration Date: | | | EI.0033683 / LA / September 2022 | |
| Year registered: | 2018 | Discipline: | Civil Engineering | |
| Contract role(s) / brief description of responsibilities: | | | Jared will be responsible for roadway design, signing and striping, and quantity tabulation of materials and services required. Jared has his TCT, TCS and Flagger certifications. | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | | |
| Jared has worked on LaDOTD and USACE projects under the oversight of professional engineers. His responsibilities include road design, the design of guard rails, design of site plans, and quantity tabulation of materials and services required for a project. He is often responsible for detailed corrections and adjustments to plan sets and ensuring plan sets are in compliance with LaDOTD specifications and standards. | | | | |
| 01/17 – 09/20 | Bootlegger Road Mill & Overlay, Bridge Design, St. Tammany Parish, LA; St. Tammany Parish Government: Serving as Engineering Intern, Jared was responsible for assisting with quantity calculations for this project. | | | |
| 09/16 – 05/21 | LADOTD, I-12, LA 21 to US 190 Widening Design, St. Tammany Parish, LA: Serving as Engineer Intern, Jared was responsible for assisting with drafting of typical section sheets, quantity tables, guardrail layout designs, plan/profile sheets, signing and striping sheets using CADConform and MicroStation. Responsible for designing guardrail layouts and quantity calculations. Also assisted with the development of cost estimates. Responsible for following the Stanley Consultants QA/QC Plan. | | | |
| 06/15 – 02/21 | LADOTD, LA 675 and LA 87 Improvements, New Iberia, LA: Serving as Engineer Intern, Jared was responsible for assisting with the drafting of geometric layout sheets, detour signing and map, temporary benchmarks, pavement marking sheets and additional detail sheets. His additional responsibilities include assisting with developing cost estimates and providing a summary of drainage structures tables and quantity calculations. | | | |

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| 04/17 – 05/21 | LADOTD, LA 30 Roundabouts at Tanger & I-10, Ascension Parish, LA: Serving as Engineer Intern, Jared was responsible for assisting with drafting of plan/profile sheets, drainage plan/profile sheets, geometric layout sheets, sequence of construction sheets and pavement marking sheets. His additional responsibilities included review of existing drainage maps, design drainage maps, providing a summary of drainage structures tables and assisting with quantity calculations and cost estimates. |
| 06/18 – 02/20 | LADOTD, LA 1, Iberville, Port Allen Canal Misc. Pavement Preservation, West Baton Rouge Parish, LA: As Engineer Intern, Jared was responsible for assisting with topographic survey field work. He assisted with the drafting of typical section sheets, quantity tables, guardrail layouts, miscellaneous detail sheets using MicroStation and performing quantity calculations. Responsible for following the Stanley Consultants QA/QC Plan. |
| 03/17 – 09/21 | LADOTD, LA 67: EBR P/L to 8 Miles North of EB, East Feliciana Parish, LA: Serving as Engineer Intern, Jared is responsible for assisting with topographic survey field work. He assisted with the drafting of typical section sheets, quantity tables, guardrail layouts, miscellaneous detail sheets using MicroStation, and performed quantity calculations. Jared also assisted with the development of cost estimates and is responsible for following the Stanley Consultants QA/QC Plan. |
| 06/18 – 12/20 | LADOTD, US 61: Bluebonnet Blvd to S. End US 190, Baton Rouge, LA: Serving as Engineer Intern, Jared was responsible for assisting with topographic survey field work. He assisted with the drafting of typical section sheets, quantity tables, guardrail layouts, miscellaneous detail sheets using MicroStation, and performed quantity calculations. Jared also assisted with the development of cost estimates and is responsible for following the Stanley Consultants QA/QC Plan. |

16. Staff Experience:***Additional Support – Traffic Analysis***

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| Firm Employed By: Stanley Consultants, Inc. | | | |
| Name: | Kayla Lafitteau, EI | Years of relevant experience with this employer | 3 |
| Title: | Engineer-In-Training 1 | Years of relevant experience with other employer(s) | 0 |
| Degree(s) / Years / Specialization: | | -- | |
| Active Registration Number / State / Expiration Date: | | EI.0034158/ LA / March 2022 | |
| Year registered: | 2018 | Discipline: | Civil Engineering |
| Contract role(s) / brief description of responsibilities: | | Kayla will be responsible for roadway design, signing and striping, and quantity tabulation of materials and services required. Kayla has her TCT, TCS and Flagger certifications. | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| <p>Kayla’s experience includes working on LaDOTD and City of New Orleans projects under the oversight of professional engineers. Kayla has been responsible for detour signing, permanent pavement markings, geometric layout and guard rail design. She prepares quantity calculations, cost estimates, and is proficient in MicroStation and AutoCAD. Kayla is often responsible for detailed corrections and adjustments to plan sets to ensure they are compliant LaDOTD specifications and standards.</p> | | | |
| 09/16 – 05/21 | LADOTD, I-12, LA 21 to US 190 Widening Design, St. Tammany Parish, LA: As Engineer Intern, Kayla was responsible for assisting with drafting of typical section sheets, pavement marking sheets, and plan/profile sheets. Responsible for assisting with quantity calculations, guard rail design and developing a cost estimate. Responsible for following the Stanley Consultants QA/QC Plan. | | |
| 06/15 – 02/21 | LADOTD, LA 675 and LA 87 Improvements, New Iberia, LA: Serving as Engineer Intern, Kayla was responsible for assisting with the drafting of geometric layout sheets, detour signing and map, temporary benchmarks, pavement marking sheets and additional detail sheets. Kayla also assisted with developing cost estimates, summary of drainage structures tables, and quantity calculations. Responsible for following the Stanley Consultants QA/QC Plan. | | |

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| 04/17 – 05/21 | LADOTD, LA 30 Roundabouts at Tanger & I-10, Ascension Parish, LA: Serving as Engineer Intern, Kayla was responsible for assisting with drafting of plan/profile sheets, drainage plan/profile sheets, geometric layout sheets, sequence of construction sheets and pavement marking sheets. Her additional responsibilities included review of existing drainage maps, design drainage maps and summary of drainage structures tables. Kayla also assisted with quantity calculations and cost estimates. Responsible for following the Stanley Consultants QA/QC Plan. |
| 06/18 – 02/20 | LADOTD, LA 1, Iberville, Port Allen Canal Misc. Pavement Preservation, West Baton Rouge Parish, LA: Serving as Engineer Intern, Kayla was responsible for assisting with topographic field work. She assisted with quantity calculations, guard rail design and additional detail sheets. Additionally, Kayla assisted with developing the cost estimate and summary sheets. Responsible for following the Stanley Consultants QA/QC Plan. |
| 03/17 – 09/21 | LADOTD, LA 67: EBR P/L to 8 Miles North of EB, East Feliciana Parish, LA: Serving as Engineer Intern, Kayla is responsible for assisting with topographic survey field work. Assisted with the drafting of typical section sheets, quantity tables, guardrail layouts, miscellaneous detail sheets using MicroStation, and performed quantity calculations. Also assisted with the development of cost estimates. Responsible for following the Stanley Consultants QA/QC Plan. |
| 06/18 – 12/20 | LADOTD, US 61: Bluebonnet Blvd to S. End US 190, Baton Rouge, LA: Serving as Engineer Intern, Kayla was responsible for assisting with topographic survey field work. She assisted with the drafting of typical section sheets, quantity tables, guardrail layouts, miscellaneous detail sheets using MicroStation, and performed quantity calculations. Kayla also assisted with the development of cost estimates. Responsible for following the Stanley Consultants QA/QC Plan. |

16. Staff Experience:**Additional Support – Traffic Analysis**

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| Firm Employed By: Stanley Consultants, Inc. | | | |
| Name: | Jackie Wood | Years of relevant experience with this employer | 4 |
| Title: | Senior Designer | Years of relevant experience with other employer(s) | 37 |
| Degree(s) / Years / Specialization: | | -- | |
| Active Registration Number / State / Expiration Date: | | -- | |
| Year registered: | -- | Discipline: | -- |
| Contract role(s) / brief description of responsibilities: | | Jackie will provide roadway design and graphics services on this contract. Previously, Jackie worked with LaDOTD graphics to add symbology parameters for the Road Design Standards for CADConform and continues to have frequent contact with LaDOTD CADConform managers. Her skills include proficiency in MicroStation Inroads, LaDOTD CADConform and knowledge of AutoCAD. | |
| Experience dates (mm/yy–mm/yy) | Experience and qualifications relevant to the proposed contract, <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s). | | |
| Jackie has experience in road design since 1980, including creation of roadway plans (design and drafting); assisting contractors and engineers with the coordination of field changes, creation of work drawings and change orders; completing feasibility studies; and training of engineer-interns and CAD technicians. | | | |
| 09/16 – 05/21 | LADOTD, I-12, LA 21 to US 190 Widening Design, St. Tammany Parish, LA: Served as Senior Designer responsible for sheet creation, roadway design, plan production, LaDOTD formatting and CADConform compliance. | | |
| 06/15 – 02/21 | LADOTD, LA 675 and LA 87 Improvements, New Iberia, LA: Serving as Senior Designer, Jackie was responsible for sheet creation, preliminary backcheck of plans, correcting and CAD Conforming of plans. | | |
| 04/17 – 05/21 | LADOTD, LA 30 Roundabouts at Tanger & I-10, Ascension Parish, LA: Serving as Senior Designer, Jackie was responsible for the design of three multi-lane roundabouts along the LA 30 corridor in Gonzales, LA, as well as the preparation of the typical section sheets, geometric sheets and plan/profile sheets. | | |
| 06/18 – 02/20 | LADOTD, LA 1, Iberville, Port Allen Canal Misc. Pavement Preservation, West Baton Rouge Parish, LA: Serving as Senior Designer, Jackie was responsible for preliminary backcheck of plans, correcting and CADD conforming of plans. | | |

| | |
|------------------------|---|
| 04/17 - Ongoing | LADOTD, Roundabout: US 171 at Boone St., Vernon Parish, LA: Serving as Senior Designer, Jackie is responsible for the design of intersection and corridor improvements along US 171. Design includes a roundabout, J-turn and turn lanes. |
| 03/16 – 12/18 | LADOTD, I-10/Loyola Interchange Improvements, Kenner, LA: Serving as Senior Designer, Jackie was responsible for assisting with Environmental Assessment and IMR alternative concepts and exhibits. Additionally, she aided in MicroStation and ArcGIS conversions and aerials. |
| 05/19 – 07/20 | LADOTD, I-12 Widening Design-Build (O’Neal Ln. to Pete’s Hwy), Baton Rouge, LA: Serving as Lead Designer, Jackie was responsible for designing and producing MicroStation and InRoads files associated with this project. She also assisted with the preparation of roadway plans and revisions during the construction phase. |

17. Firm Experience:

| | | | | | | |
|---|--|--|---|---|-------------------------------------|----------|
| Firm name | WSP USA Inc. | | | Past Performance Evaluation Discipline(s)* | Bridge | |
| Project name | Fracture-critical Member Bridge Inspections, Texas | | | | Firm responsibility (prime or sub?) | Prime |
| Project number | 188359 | Owner's name | Texas Department of Transportation (TxDOT) | | | |
| Project location | Statewide, Texas | | Owner's Project Manager | Lu Trujillo, P.E. Transportation Engineer Supervisor | | |
| Owner's address, phone, email | | 125 E. 11th Street, Austin, TX 78701, (512) 416-2075, Lu.Trujillo@TxDOT.gov | | | | |
| Services commenced by this firm (mm/yy) | | 06/16 | Total consultant contract cost (\$1,000's) | | | \$10,000 |
| Services completed by this firm (mm/yy) | | Ongoing | Cost of consultant services provided by this firm (\$1,000's) | | | \$2,964 |

WSP is providing statewide fracture-critical inspection, tunnel inspection and ultrasonic bridge pin testing services for the TxDOT on a work authorization basis. This was a renewal of a previous \$4,000,000 Fracture-Critical Member Bridge Inspection contract with TxDOT. Inspection services and load ratings are provided throughout the state, as directed by the Department. Work is performed on structures both on and off the state system, often requiring extensive coordination and pre-planning with traffic control, equipment providers, railroad entities, and TxDOT inspection and maintenance personnel. Services include: reviewing previous inspection reports and load ratings, completing the necessary inspection activities, preparing inspection reports that identify the condition evaluation of the structure, recommending maintenance activities, reporting critical findings, generating any requested load ratings, and updating database records, where necessary.

To date, WSP has performed inspections on numerous structure types, including cable-stayed, tub girders, through and pony trusses, plate caps, box caps, railroad flat cars, and two or three-girder framing systems. Services have included non-destructive testing (dye penetrant and magnetic particle) and ultrasonic testing of fracture-critical pins, performed by our Level II certified pin testing technicians. Traditional access equipment utilized in conducting the inspections includes boom lifts, bucket trucks, and under-bridge inspection vehicles. Throughout the contract, WSP utilized innovative access techniques to eliminate or reduce the need for costly traffic control, including the use of technical climbing techniques, rope access, and novel aerial lift equipment (bucket boats).

Key Staff: Michael Craig; Matt Sullivan; Casey Howard; William Mitchell; Wes Weir; Ross Dewey; Brendon Jones; Troy Torbett

TxDOT FC Contract Stats to Date:

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

17. Firm Experience:

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|--|--|--|---|----------------------|
| Firm name | WSP USA Inc. | | Past Performance Evaluation Discipline(s)* | Bridge |
| Project name | Engineering Services for Cable-Stayed Structures, Georgia | | Firm responsibility (prime or sub?) | Prime |
| Project number | 188658 | Owner's name | Georgia Department of Transportation (GDOT) | |
| Project location | Georgia | | Owner's Project Manager | Robbie Koirala, P.E. |
| Owner's address, phone, email | 935 East Confederate Avenue, Building 24, Room 408, Atlanta GA, (404)635-2893, rkoirala@dot.ga.gov | | | |
| Services commenced by this firm (mm/yy) | 06/16 | Total consultant contract cost (\$1,000's) | | \$5000 |
| Services completed by this firm (mm/yy) | Ongoing | Cost of consultant services provided by this firm (\$1,000's) | | \$3000 |

This task-order basis contract has included: **Special member inspection of the Sidney Lanier Bridge.** The scope included the in-depth inspection of 49 cable stays within the deck level guide pipes. Sever deterioration and holed-through sections were noted to the HDPE pipe sheathing in 25 cable stays of 49 inspected at the interface with the tight-fit neoprene washer assemblies. **Routine safety inspection of the Talmadge Memorial Bridge.** The routine inspection consisted of a “eyes on” inspection of all faces of the bridge, including the bridge deck, inside and outside of towers, substructure, exterior surfaces of the cables, and all light poles and overhead sign structures. **Repair plans for the Sidney Lanier Bridge.** Repair plans addressed significant deficiencies associated with excessive cable vibration including cracked stay piles and neoprene bearing failures, and corrosion of the stay strands. **Dampening retrofit plans for the Sidney Lanier Cable Stays.** Performed the design of the retrofit to minimize the excessive vibration in the cables utilizing an external viscoelastic damping system for cable stay and rewinding of the cables to prevent water intrusion. **Dampening retrofit plans for the Talmadge Memorial Bridge.** Like task #4 above, **in-depth inspection of the Talmadge Bridge.** The scope of work consisted of performing an in-depth, visual inspection of all primary structural elements to assess the present condition and provided repair recommendations. **Load Rating of the Sidney Lanier and Talmadge Bridges.** **In-depth inspection of Sidney Lanier Bridge.** The scope of work consists of performing an in-depth, visual inspection of all primary structural elements, internal guide pipe inspection, dampening system, and forced vibration testing, to assess the present condition and provide repair recommendations. **Operation and Maintenance (M&O) manual for the Sidney Lanier and Talmadge Bridges.** This manual is intended to assist the GDOT's staff in the efforts to maintain the bridge elements throughout their service life.

Key Staff: Michael Craig; Matt Sullivan; Casey Howard; William Mitchell; Wes Weir; Ross Dewey; Raul Acosta Garcia; Brendon Jones; Ricardo Cornejo; Troy Torbett



17. Firm Experience:

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|--|--|--|---|-----------------------------|
| Firm name | WSP USA Inc. | | Past Performance Evaluation Discipline(s)* | Bridge |
| Project name | Delaware Memorial Bridge, General Engineering Consulting | | Firm responsibility (prime or sub?) | Prime |
| Project number | 191705 | Owner's name | Delaware River and Bay Authority (DRBA) | |
| Project location | New Castle, Delaware | | Owner's Project Manager | Shekhar Scindia, PE, ENV SP |
| Owner's address, phone, email | Delaware River & Bay Authority, PO Box 71, New Castle, DE 19720, (302) 571-6166, Shekhar.Scindia@DRBA.net | | | |
| Services commenced by this firm (mm/yy) | 01/14 | Total consultant contract cost (\$1,000's) | \$4,000 | |
| Services completed by this firm (mm/yy) | Ongoing | Cost of consultant services provided by this firm (\$1,000's) | \$4,000 | |

WSP was retained to perform General Engineering Consulting Services for the Delaware Memorial Bridge (suspension) 1st and 2nd structures. Primary task assignments entail conducting annual inspections of the Delaware Memorial Bridge and the adjoining infrastructure. Additional tasks have included design and construction inspection services for deck repairs, miscellaneous steel repairs, and steel span painting. Task assignments have included planning, design, shop drawing review, construction administration, inspection, off-site and on-site material testing, surveying, and environmental consulting services for pavements, lighting, signage, navigational aids, utilities, and infrastructure correlating with the assigned single span. More specifically, tasks have included:

- Design, civil, mechanical, electrical, structural, and geo-technical engineering services and surveys, preparation of contract drawings, technical specifications, cost estimates, design reports, structural assessments,
- permitting, and grant administration services.
- Perform annual bridge and structures inspections in accordance with National Bridge Inspection Standards. Comprehensive inspections are performed on half of the structures every year with cursory inspections on the remaining structures.
- Planning efforts, updates to master plans, pavement management studies, concept plans, economic comparisons, feasibility studies, grant funding investigations, noise studies, security assessments, major/minor record plans, traffic impact studies, wildlife management and habitat conservation management planning.
- Environmental services, assessments, due diligence audits mitigation design, securing permits, inspections, testing, and other efforts necessary to maintain compliance with any government agency requirement.



Key Staff: Matt Sullivan; Casey Howard; William Mitchell; Brendon Jones; Troy Torbett

17. Firm Experience:

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|--|---|--|---|-------------|
| Firm name | WSP USA Inc. | | Past Performance Evaluation Discipline(s)* | Bridge |
| Project name | Inspection and Load Rating Contract | | Firm responsibility (prime or sub?) | Prime |
| Project number | 193656 | Owner's name | SCDOT Districts 2 and 7 | |
| Project location | South Carolina | | Owner's Project Manager | Emily Berry |
| Owner's address, phone, email | 955 Park Street Columbia, SC 29201, 803-737-1053, BerryEJ@scdot.org | | | |
| Services commenced by this firm (mm/yy) | 08/19 | Total consultant contract cost (\$1,000's) | \$14,300 | |
| Services completed by this firm (mm/yy) | Ongoing | Cost of consultant services provided by this firm (\$1,000's) | \$14,300 | |

The general scope of work for this contract consisted of the inspection and determination of the load capacity ratings for 2,558 structures, for state-owned, county-owned, and other municipality-owned structures within the state of South Carolina, including 14 complex structures across the Savannah River. The inspections and load capacity ratings were being performed in accordance with the SCDOT Load Rating Guidance Document (LRGD) to comply with the National Bridge Inspection Standards, 23 CFR Part 650 subpart C. WSP utilized drones during the inspection phase to inspect and screen bridges to identify where snoopers access was and was not needed. This process eliminated the need to close traffic lanes and provided expensive access equipment on several bridges saving the Department thousands of dollars.

Additionally, WSP performed load testing and material testing on 120 bridges to eliminate bridge postings. The data from the 120 bridges was utilized to extrapolate the results to over 1000 bridges saving the department millions of dollars in potential bridge replacements. WSP also created an innovative GIS platform to allow for quick field data gathering, and real time transfer of data between WSP staff, SCDOT staff, and other consultants.



Key Staff: Michael Craig; Matt Sullivan; Casey Howard; William Mitchell; Raul Acosta-Garcia; Ricardo Cornejo; Brendan Jones; Troy Torbett; Hamid Yaghoubi; Mark Pearson

17. Firm Experience:

| | | | | | |
|---|--|---|---|--------------------------------------|-------------------|
| Firm name | WSP USA Inc. | | Past Performance Evaluation Discipline(s)* | | Bridge |
| Project name | Structures Bridge Inspection Limited Services Contract | | | Firm responsibility (prime or sub?) | Prime |
| Project number | 30900678 | Owner's name | NC Dept. of Transportation | | |
| Project location | Statewide, NC | | Owner's Project Manager | David Snoke, PE Bridge inspection | |
| Owner's address, phone, email | | 1000 Birch Ridge Drive, Raleigh, NC 27610; dsnoke@ncdot.gov | | | |
| Services commenced by this firm (mm/yy) | | 2011 | Total consultant contract cost (\$1,000's) | | \$2,000 per cycle |
| Services completed by this firm (mm/yy) | | ongoing | Cost of consultant services provided by this firm (\$1,000's) | | \$2,000 per cycle |

Our team has performed over 2,000 bridge inspections across nearly all the counties in the state over the past 11 years. The following includes highlighted projects/tasks:

- ▶ **Albemarle Sound Corrosion and Detailed Deck Inspection, Washington County, NC:** WSP provided corrosion condition evaluation of the post-tensioned tendons, grout and the concrete deck of the 4,015-ft-long approach and main span box girder section of this 3.5-mile-long bridge.
- **Bonner Bridge Health Monitoring:** WSP performed health monitoring of the Bonner Bridge in using solar power and cellular data. WSP performed a repair inspection of the south end of the Bonner Bridge, recommended and prioritized repairs, and provided engineering.
- **Ultrasonic Inspection of Truss Structures, Haywood and Davidson Counties, NC:** WSP performed NBIS and ultrasonic inspections of three fracture critical truss bridges in 2015. WSP was re-selected in 2017 to assist NCDOT with this ultrasonic testing. WSP has developed an ASNT compliant pin testing procedure to be able to better identify deficiencies in bridge pins.
- **Bridge Preservation/Rehabilitation:** The ongoing work under this contract includes the bridge rehabilitation plans of one bascule bridge's approach spans, one segmental box girder bridge, and four large coastal bridges in Carteret, Craven and Pamlico Counties, NC. Work previously completed under a task order included the rehabilitation of a 14-span, prestressed concrete girder bridge, located along the east coast of NC, spanning the Banks Channel, and connecting Wilmington to Wrightsville Beach, NC.
- **Diagnostic Load Testing and Finite Element Analysis, Davidson and Gaston Counties, NC:** WSP provided load rating evaluation through diagnostic field load testing and 3D finite element analysis (FEA) of two steel girder bridges. Posting was removed for the Davidson County Bridge, and for Gaston the allowable posting was increased from Single Vehicle 26 tons to 31 tons.
- **Load Testing Evaluation of Culverts, Forsyth, Davidson and Iredell Counties, NC:** WSP provided load rating evaluation utilizing diagnostic load testing and advanced FEA of four reinforced concrete box culverts. WSP found that there was no need for load posting.

Key Staff: Michael Craig; Casey Howard; William Mitchell; Ross Dewey; Raul Acosta-Garcia; Brendon Jones; Troy Torbett

17. Firm Experience:

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|--|---|--|---|--------------|
| Firm name | WSP USA Inc. | | Past Performance Evaluation Discipline(s)* | Bridge |
| Project name | METRA Inspections, Illinois | | Firm responsibility (prime or sub?) | Prime |
| Project number | 188359 | Owner's name | METRA Rail | |
| Project location | Chicago Illinois | | Owner's Project Manager | Mark Delaney |
| Owner's address, phone, email | 547 W. Jackson Blvd, Chicago, IL, 60661, 312-322-6915, mdelaney@metrarr.com | | | |
| Services commenced by this firm (mm/yy) | 9-2021 | Total consultant contract cost (\$1,000's) | \$50 | |
| Services completed by this firm (mm/yy) | 9-2021 | Cost of consultant services provided by this firm (\$1,000's) | \$50 | |

WSP performed safety inspections for over 400 METRA, Chicago transit agency bridges. Structures inspected include multi-beam, girder/floorbeam, trusses, culverts, and tunnels. All inspections are required to be completed within a 3-month time frame to meet FRA requirements. To meet the deadlines on this project WSP utilized multiple crews, a top side team and an underside team working in tandem to maximize production.

All inspections were completed in conformance with FRA and METRA requirements. Also to accelerate production, WSP implemented a GIS- based data collection and report system that provides METRA personnel with real time field report information. This GIS-based system has been critical in communication and tracking of work completed as well as addressing critical findings in a timely manner. Reports are autogenerated directly out of the GIS Cloud system minimizing report creation time and saving METRA over \$50k.

Key Staff: Wesley Weir, Michael Crag; Casey Howard; William Mitchell; Raul Acosta; Ricardo Cornejo; Brendan Jones



17. Firm Experience:

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|--|--|--|---|-----------------|
| Firm name | WSP USA Inc. | | Past Performance Evaluation Discipline(s)* | Bridge |
| Project name | Biennial Inspections & Design of Miscellaneous Repairs, NY | | Firm responsibility (prime or sub?) | Prime |
| Project number | 188658 | Owner's name | Triborough Bridge & Tunnel Authority | |
| Project location | New York, NY | | Owner's Project Manager | Samir Salah, PE |
| Owner's address, phone, email | Triborough Bridge & Tunnel Authority Engineering & Construction, 2 Broadway New York, NY, (646) 252-7084, Samir.Salah@mtacd.org | | | |
| Services commenced by this firm (mm/yy) | 06/18 | Total consultant contract cost (\$1,000's) | | \$2500 |
| Services completed by this firm (mm/yy) | 06/20 | Cost of consultant services provided by this firm (\$1,000's) | | \$3000 |

Since 1998, WSP has been responsible for the inspection and analysis of several of the TBTA's long span bridges and viaducts, vitally important to New York City's infrastructure. These projects have included:

- **2020, 2018, 1998 Biennial Inspection & 1999, 2019 & 2021 Special Inspection of the Robert F. Kennedy Bridge and Approach Ramps** (thru-truss)
- **2017 Biennial & 2018 Special Inspections of the Henry Hudson & Queens Midtown Tunnel Bridges** (steel and concrete arch and multi-girder)
- **2012, 2008, 2004 & 2000 Biennial and 2013, 2009, 2005 & 2001 Special Inspection of the Verrazzano-Narrows Bridge** (suspension)
2016, 2010, 2006 & 2002 Biennial and 2017, 2011 & 2007 Special Inspection of the Robert F. Kennedy Bridge Mainline (suspension)
- **2015 Biennial Inspection of the Marine Parkway and Cross Bay Bridges** (lift bridge & concrete I-beam)
- **2014 Biennial Inspection of the Verrazzano Narrows Ramps** (steel viaducts)
2013, 2009, 2005 (suspension) & 1999 Biennial and 2014, 2010 & 2000 Special Inspection of the Bronx-Whitestone Bridge
2011, 2007 & 2001 Biennial & 2008 & 2002 Special Inspection of the Throgs Neck Bridge (suspension)

Overseeing the entire inspection operations and supervising up to six (6) concurrent inspection teams; directing all subconsultants, subcontractors, and suppliers for necessary services and equipment; utilizing a variety of access methods including rigging under bridge units and manlifts as well as extensive coordination between contractors and the TBTA maintenance and operations groups at the various sites;

Key Staff:; Matt Sullivan; Casey Howard; William Mitchel; Brendon Jones; Troy Torbett



17. Firm Experience:

| | | | | | |
|---|--|--|---|--|---------|
| Firm name | WSP USA Inc. | | | Past Performance Evaluation Discipline(s)* | Bridge |
| Project name | Bridge Inspection Services – Rhode Island Turnpike, RI | | | Firm responsibility (prime or sub?) | Prime |
| Project number | 191705 | Owner’s name | Rhode Island Turnpike And bridge Authority | | |
| Project location | Rhode Island | | Owner’s Project Manager | Eric Seabury, PE | |
| Owner’s address, phone, email | | Rhode Island Turnpike and Bridge Authority, PO Box 437, Jamestown, RI 02835, (401)423-0830, eseabury@ritba.org | | | |
| Services commenced by this firm (mm/yy) | | 01/11 | Total consultant contract cost (\$1,000’s) | | \$1,406 |
| Services completed by this firm (mm/yy) | | Ongoing | Cost of consultant services provided by this firm (\$1,000’s) | | \$1,000 |

WSP is currently performing bridge inspection and on-call engineering services for the Rhode Island Turnpike and Bridge Authority (RITBA) on the Newport Pell Bridge and performed bridge inspection services on the Mount Hope Bridge in 2016 and 2017. The Newport Pell Bridge is an 11,248-foot-long structure that includes a suspension bridge section consisting of a 1,600-foot-long main span and two (2), 687-foot-long side spans. The remainder of the bridge consists of various superstructure types including continuous and simply supported steel deck truss spans, built-up steel plate girder spans, steel multistringer spans and prestressed concrete girder spans. The supporting substructure consists of steel towers for the suspension spans as well as reinforced concrete piers, abutments and anchorages, founded on caissons, piles and spread footings. The bridge carries the four lanes of vehicular traffic of RI State Route 138 and opened on June 28, 1969. The Mount Hope Bridge is a 4,858-foot-long structure, including a suspension bridge section over the Mount Hope Bay with a 1,200-foot-long main span flanked by two 504'-2" long side spans. The bridge carries two lanes of vehicular traffic on Rhode Island State Route 114 over the Mount Hope Bay, between the towns of Bristol and Portsmouth on Aquidneck Island. The bridge opened to traffic on October 24, 1929.

As part of this contract, WSP is performing in-depth structural integrity Biennial Inspections in accordance with NBIS criteria including 100% hands-on inspection of the fracture critical components of the Newport Pell and Mount Hope structures, and visual inspection of all other elements. Other tasks performed by WSP under this contract include the preparation and submission of all required inspection reports, documentation, and coding of the structure, providing advice and recommendations to RITBA as to the proper repair and maintenance of the bridge and recommendations regarding funding requirements for future maintenance purposes.

Key Staff: Matt Sullivan; Casey Howard; William Mitchell; Brendon Jones; Ricardo Cornejo Troy Torbett



17. Firm Experience:

| | | | | | | |
|---|--|---|--------------|---|-------------------------------------|-----------------|
| Firm name | WSP USA Inc. | | | Past Performance Evaluation Discipline(s)* | | Bridge |
| Project name | Biennial Inspection of Various NY SBA Structures, NY | | | | Firm responsibility (prime or sub?) | Prime |
| Project number | 188658 | | Owner's name | NY State Bridge Authority | | |
| Project location | New York | | | Owner's Project Manager | Jeffery Wright, PE | |
| Owner's address, phone, email | | New York State Bridge Authority, PO Box 1010 Highland, NY 12528, 845-691-7245, jwright@nysba.ny.gov | | | | |
| Services commenced by this firm (mm/yy) | | | 08/19 | Total consultant contract cost (\$1,000's) | | \$200 per cycle |
| Services completed by this firm (mm/yy) | | | Ongoing | Cost of consultant services provided by this firm (\$1,000's) | | \$200 per cycle |

WSP was selected to provide Biennial Inspections for the NYBA for a 3-year cycle from 2017 – 2019 and another 3-year cycle from 2020 to 2022. As part of this contract, WSP performed the 2017 Biennial Inspection of the Kingston-Rhinecliff Bridge (KRB) which is a continuous under deck truss which carries NY 199, the 2018 Biennial Inspection of the Rip Van Winkle Bridge (RVW) which is a steel cantilever through truss and deck truss, the 2019 Biennial Inspection of the Newburgh Beacon Bridge – North Span which is a continuous deck truss bridge, the 2020 Biennial Inspection of the Bear Mountain Bridge which is a suspension bridge and the 2021 Biennial Inspection of the Newburgh Beacon Bridge – South Span which is a continuous deck truss bridge.

The tasks performed by WSP under this contract included the preparation and submission of all required inspection reports, including an in-house narrative style report which described the condition of the bridge by section, summarized the data in tabular format, providing recommendations to NYSBA for the proper repair and maintenance of the bridge, and included primary member condition ratings for future tracking. Additionally, NYSDOT BDIS reports were submitted as well using Element Level Condition State Ratings.

Key Staff: Matt Sullivan; Casey Howard; William Mitchell; Brendon Jones; Troy Torbett



17. Firm Experience:

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|--|--|--|---|------------------|
| Firm name | WSP USA Inc. | | Past Performance Evaluation Discipline(s)* | Bridge |
| Project Name | Center Street Swing Bridge | | Firm Responsibility (Prime or Sub?) | Prime |
| Project Number | N/A | Owner's Name | City of Cleveland, Ohio | |
| Project Location | Cleveland, Ohio | | Owner's Project Manager | Thomas Boyer, PE |
| Owner's Address, Phone, Email | 601 Lakeside Avenue, Cleveland, Ohio 44114; 216.664.2379, tboyer@city.cleveland.oh.us | | | |
| Services Commenced by this Firm (mm/yy) | 06/19 | Total Consultant Contract Cost (\$1,000's) | \$556 | |
| Services Completed by this Firm (mm/yy) | Ongoing | Cost of Consultant Services Provided by this firm (\$1,000's) | \$425 | |

The Center Street Swing Bridge, originally constructed in 1901, is comprised of a rim-bearing swing truss with 145'-0" and 100'-0" long movable, pin-connected, Pratt through truss arms over the river and shore, respectively, and a rolled steel beam East Approach Span that varies from 59'-9" to 65'-10". Pneumatic end jacks are utilized at each corner of the swing truss to engage the live load shoes for vehicular traffic.

Firm Role: WSP was contracted by the City of Cleveland to perform an **in-depth, fracture critical structural inspection** of the bridge, including ultrasonic testing of the pins on the truss spans, and a **mechanical and electrical inspection** limited to the elements to be rehabilitated. Following the inspection, WSP updated the load rating and provided rehabilitation recommendations to the City. Additionally, a temporary retrofit repair was designed to address **severe section loss** that was noted on the stringers and had led to the **posting of the bridge** for reduced loading. Based upon the findings of the inspection and load rating, WSP prepared rehabilitation plans for the bridge to address areas of severe corrosion and deterioration and to improve the **overall operational reliability**.

Highlights: Structural: Replacement of roadway stringers, roadway grid deck, concrete filled steel grid deck sidewalk on the truss spans with fiberglass open grid deck. Replacement of the end floorbeams on the truss spans. Strengthening of the floorbeams in the River Span. Heat straightening of select truss members. Replacement of the traffic rail on the East Approach Span. Painting of the entire bridge. Improvements to increase pedestrian access on the bridge performed, which included relocation of the Operator's House stairs.

Mechanical and Electrical: Minor mechanical and electrical improvements, replacement and relocation of the warning gates, and installation of sidewalk lighting on the truss spans.

Key success factors: Continuous Coordination with Client as our inspection findings required change in scope of work; **proper design scheduling** ensures cross-disciplinary quality assurance, established **client preferences** early.

Key Staff: Wesley Weir; Noemy Roman; William Mitchell; Robert Algazi; David Nyarko; Robert Dudik; Graciela Patino; Bert Crouthamel



17. Firm Experience:

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|--|--|--|--|--------------|
| Firm name | CONSOR Engineers, LLC | | Past Performance Evaluation Discipline(s)* | Bridge |
| Project name | Retainer Contract for Underwater Bridge Inspection Services, Statewide | | Firm responsibility (prime or sub?) | Prime |
| Project number | 4400009105 | Owner's name | Louisiana Department of Transportation & Development | |
| Project location | Louisiana, Statewide | | Owner's Project Manager | Haylye Brown |
| Owner's address, phone, email | 1201 Capitol Access Road, Baton Rouge, LA 70804 / 225.349.1200 / haylye.brown@la.gov | | | |
| Services commenced by this firm (mm/yy) | 01/17 | Total consultant contract cost (\$1,000's) | \$ 4,492 to date | |
| Services completed by this firm (mm/yy) | Present | Cost of consultant services provided by this firm (\$1,000's) | \$ 4,492 to date | |



Under a second consecutive contract, CONSOR has performed 800+ underwater inspections of bridges in LADOTD Districts statewide. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, for concrete, steel, and timber bridges and culverts and 2D and 2D Acoustic Imaging on select bridges. Inspections have included challenging aspects specifically related to wildlife, fast currents, difficult access as well as culvert structures requiring penetration dives through extensive silt and debris build up.

CONSOR's most recently completed task order (2019) included 254 bridges in District 2, which encompasses the parishes of Orleans, Jefferson, Lafourche, and Terrebonne. The bridges inspected included I-10 Eastbound/Westbound bridges over Lake Pontchartrain, US 11 over Lake Pontchartrain, and I-10 Eastbound/Westbound over the Bonnet Carre Spillway. CONSOR's current task order, ending in June 2022, includes 350+ inspections to date in LADOTD Districts 2, 4, 5, 7, 8, 58, and 62.

Comprehensive engineering reports are prepared and submitted in LADOTD AssetWise Bridge Management System.

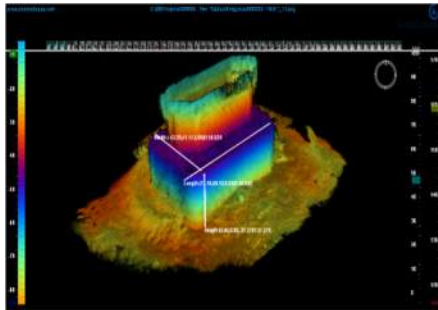
Key Staff: Heath Pope, PE; Sebastien Templeton, PE; Andrew Young, PE; Andrew Cronin, PE; Michael Dukes, PE; Jayce Cook; James Talacek; Travis Becker EIT; Greyson McDonald, EIT; Donald Roberts; Colton Powell; Adam Smith; Arthur LeForge; Eric Bolek; Wesley Trescott; Stephen Rowley; Jeffrey Lane; Jordan Ramirez.

17. Firm Experience:

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|---|---|--|--------------|---|-------------------------------------|--------------|---------|
| Firm name | CONSOR Engineers, LLC | | | Past Performance Evaluation Discipline(s)* | | Bridge | |
| Project name | Statewide Underwater Bridge Inspections | | | | Firm responsibility (prime or sub?) | | Prime |
| Project number | 4400003531 | | Owner's name | Louisiana Department of Transportation & Development | | | |
| Project location | Louisiana, Districts 04, 05, 08, and 58 | | | Owner's Project Manager | | Haylye Brown | |
| Owner's address, phone, email | | 1201 Capitol Access Road, Baton Rouge, LA 70804 / 225.349.1200 / haylye.brown@la.gov | | | | | |
| Services commenced by this firm (mm/yy) | | | 09/13 | Total consultant contract cost (\$1,000's) | | | \$1,712 |
| Services completed by this firm (mm/yy) | | | 12/15 | Cost of consultant services provided by this firm (\$1,000's) | | | \$1,712 |

CONSOR performed 300+ underwater inspections of bridges in LADOTD Districts 04, 05, 08 and 58 under a retainer contract. The project included Level I, II, and III inspections utilizing surface-supplied air and commercial SCUBA diving systems, as well as acoustic imaging. Comprehensive engineering reports were prepared in electronic and hard copy formats.

Key Staff: Andrew Young, PE; Greyson McDonald, EIT; Donald Roberts; Jeffrey Lane; Colton Powell.



17. Firm Experience:

| | | | | | | | |
|---|---|--|--------------|---|-------------------------------------|--------------|---------|
| Firm name | CONSOR Engineers, LLC | | | Past Performance Evaluation Discipline(s)* | | Bridge | |
| Project name | Underwater Acoustic Imaging for Bridge Inspection | | | | Firm responsibility (prime or sub?) | | Sub |
| Project number | H.005365.5 | | Owner's name | Louisiana Department of Transportation & Development | | | |
| Project location | Louisiana, Statewide | | | Owner's Project Manager | | Haylye Brown | |
| Owner's address, phone, email | | 1201 Capitol Access Road, Baton Rouge, LA 70804 / 225.349.1200 / haylye.brown@la.gov | | | | | |
| Services commenced by this firm (mm/yy) | | | 11/11 | Total consultant contract cost (\$1,000's) | | | N/A |
| Services completed by this firm (mm/yy) | | | 09/14 | Cost of consultant services provided by this firm (\$1,000's) | | | \$1,414 |



As a subconsultant, CONSOR assisted in the performance of underwater acoustic imaging and underwater inspection for the inspection of 100+ bridge piers throughout the state of Louisiana.

CONSOR provided diver investigations of any anomalies that were found. The pier inspections included both sides of the piers and the upstream and downstream noses of the piers. The scans were performed to identify and locate any major damage or deterioration, such as corrosion, loss of section, or scour undermining. Equipment required for the scans included a multi axis, steered beam imaging and profiling remote sensing system. All surface-supplied air diving was performed by ADCI-certified divers. Detailed reports were generated and submitted to LADOTD.

Key Staff: Michael Dukes, PE; Donald Roberts; Jeffrey Lane

17. Firm Experience:

| | | | | |
|--|---|--|---|-----------------------|
| Firm name | CONSOR Engineers, LLC | | Past Performance Evaluation Discipline(s)* | Bridge |
| Project name | Statewide Underwater Bridge Inspections and Acoustic Imaging | | Firm responsibility (prime or sub?) | Prime |
| Project number | 2084 (2018 contract) | Owner's name | South Carolina Department of Transportation | |
| Project location | Statewide | | Owner's Project Manager | Mark Hunter, PE |
| Owner's address, phone, email | 955 Park Street/Columbia, SC 29202-0191 / 809.737.4111 / MWHunter@scdot.org | | | |
| Services commenced by this firm (mm/yy) | 09/18 | Total consultant contract cost (\$1,000's) | | \$366 (2018 contract) |
| Services completed by this firm (mm/yy) | 02/20 | Cost of consultant services provided by this firm (\$1,000's) | | \$366 |



Since 2008 under five contracts, CONSOR has performed 550+ underwater bridge inspections throughout the state. Responsibilities included the investigation, evaluation, and recommendation of repairs to the bridges' substructure units (located in the water). Bridges ranged in size from small, completely submerged box culverts to large, river-crossing trusses, and cable stays. After the inspection, a complete report was prepared for each bridge detailing the findings, rating the bridges in both NBIS and BMS, and stating recommended repairs. 3D modeling was used on I-95 NBL over the Great Pee Dee River to assess the progress of channel migration and its encroachment on additional piers. Acoustic imaging was used on bridges over the Cooper and Wando Rivers to document scour for repair recommendations, a project for which CONSOR won an Engineering Excellence award from the American Council of Engineering Companies. CONSOR has received multiple perfect scores (500 out of 500) for our work on this contract.

CONSOR also provided emergency underwater inspections of 21 bridges affected by flooding in 2015. Fourteen of the bridges were located on I-95 and were inspected during the placement of concrete scour countermeasures. The concrete was pumped in from the bridge decks and was critical in preventing extreme scour during the flood. CONSOR performed underwater examinations of the concrete after it had been pumped in to determine its efficacy. CONSOR's assessment of the placement and quality of the concrete installation was the determining factor in reopening 70 miles of I-95 for the traveling public. Underwater acoustic imaging was also used during this process to assess substructure conditions when flow velocities prevented safe diving operations.

Key Staff: Michael Dukes, PE; Andrew Young, PE; Dustin Noel, PE; Sebastien Templeton, PE; Travis Becker, EIT; Greyson McDonald, EIT; Donald Roberts; Jeffrey Lane; Matthew Ratliff; James Talacek; William Cochran; Stephen Rowley; Colton Powell; Jayce Cook; Wesley Trescott; Jordan Ramirez; Adam Smith

17. Firm Experience:

| | | | | | | |
|---|---|---|---|-------------------------------------|-------------|-----------------------|
| Firm name | CONSOR Engineers, LLC | | Past Performance Evaluation Discipline(s)* | | Bridge | |
| Project name | Statewide Underwater Bridge Inspections | | | Firm responsibility (prime or sub?) | | Prime |
| Project number | 88-7IDP5002 (2017 contract) | Owner's name | Texas Department of Transportation | | | |
| Project location | Statewide | | Owner's Project Manager | | Lu Trujillo | |
| Owner's address, phone, email | | 118 East Riverside Drive, Austin, TX 78704 / 512.416.2075 / lu.trujillo@txdot.gov | | | | |
| Services commenced by this firm (mm/yy) | | 1/17 | Total consultant contract cost (\$1,000's) | | | \$583 (2017 contract) |
| Services completed by this firm (mm/yy) | | Present | Cost of consultant services provided by this firm (\$1,000's) | | | \$583 (2017 contract) |

Under two consecutive task order-based contracts, CONSOR provided underwater bridge inspection and acoustic imaging statewide in Texas. Each bridge is inspected from 2 ft. above the mean high tide waterline to the mudline. Each inspection requires a detailed engineering report that includes client-specific forms, channel cross-section sketches, follow-up action worksheets, elemental data inspection records, and inventory and defect photographs.

Task orders included the underwater inspection and acoustic imaging of on- and off-system bridges in the Atlanta, Beaumont, Dallas, Houston, Paris, Wichita Falls, and Yoakum Districts. We also provided emergency response services, assisting with Hurricane Harvey recovery on the Texas coast by scanning the navigation channel for debris at the Port Aransas Ferry Terminal to re-open service. CONSOR was recently selected for a third consecutive contract.

Key Staff: Michael Dukes, PE; Andrew Cronin, PE; Travis Becker, EIT; Donald Roberts; Jeffrey Lane; Colton Powell; Jayce Cook; Jeffrey Lane; Arthur LeForge; Stephen Rowley; James Talacek; Jordan Ramirez; Eric Bolek; Matthew Ratliff; Adam Smith



17. Firm Experience:

| | | | | | | |
|---|---|--|---|-------------------------|-------------------------------------|-----------------------|
| Firm name | CONSOR Engineers, LLC | | Past Performance Evaluation Discipline(s)* | | Bridge | |
| Project name | Statewide Underwater Bridge Inspections | | | | Firm responsibility (prime or sub?) | Prime |
| Project number | EC 1812 (2017 contract) | Owner's name | Oklahoma Department of Transportation | | | |
| Project location | Statewide | | | Owner's Project Manager | Leslie Lewis, PE | |
| Owner's address, phone, email | | 200 N.E. 21st Street, Oklahoma City, OK 73105/405.521.6500/llewis@odot.org | | | | |
| Services commenced by this firm (mm/yy) | | 04/17 | Total consultant contract cost (\$1,000's) | | | \$270 (2019 contract) |
| Services completed by this firm (mm/yy) | | 11/19 | Cost of consultant services provided by this firm (\$1,000's) | | | \$270 (2019 contract) |



Under seven consecutive contracts since 1999, CONSOR has performed 215+ underwater bridge inspections for bridges statewide. Two of the bridges cross Lake Texoma and include 116 piers with an average depth of 70 ft., as well as bridges with depths of up to 100 ft. Underwater crack gauges were installed on one bridge with major foundation distress. Each inspection includes a detailed report with repair recommendations. CONSOR was recently selected for an eighth consecutive contract.

Key Staff: Michael Dukes, PE; Andrew Young, PE; Donald Roberts; Jeffrey Lane; Colton Powell, Jayce Cook; Matthew Ratliff

17. Firm Experience:

| | | | | | | |
|---|---|---|---|-------------------------|-------------------------------------|-----------------------|
| Firm name | CONSOR Engineers, LLC | | Past Performance Evaluation Discipline(s)* | | Bridge | |
| Project name | Statewide Underwater Bridge Inspections | | | | Firm responsibility (prime or sub?) | Prime |
| Project number | 012310 (2018 contract) | Owner's name | Arkansas Department of Transportation | | | |
| Project location | Statewide | | | Owner's Project Manager | Andrew Nanneman | |
| Owner's address, phone, email | | 10324 Interstate 30, Little Rock, AR 72209 / 501.569.2000/Andrew.Nanneman@ardot.gov | | | | |
| Services commenced by this firm (mm/yy) | | 07/18 | Total consultant contract cost (\$1,000's) | | | \$189 (2018 contract) |
| Services completed by this firm (mm/yy) | | 10/18 | Cost of consultant services provided by this firm (\$1,000's) | | | \$189 (2018 contract) |



CONSOR was selected for a ninth consecutive cycle of NBIS underwater bridge inspections in Arkansas in locations around the state. The 2018 cycle included eight bridges with diving depths up to 120 ft., requiring an on-site recompression chamber. Many inspections were performed using surface-supplied air diving with acoustic scanning of piers.

The project required compliance with the Arkansas Game and Fish Commission regulation 32.16 for containment of zebra mussels. Each inspection required a detailed engineering report with narrative description of findings, substructure location plans, sounding and water elevation data, approximate stream velocity, elevation photographs, clear water box photographic documentation of deficiencies, sketches, drawings, and acoustic images (if required).

Key Staff: Michael Dukes, PE; Andrew Young, PE; Donald Roberts; Jeffrey Lane; Colton Powell, James Talacek; Jayce Cook.

17. Firm Experience:

| | | | | | | | |
|---|---|---|--------------|---|-------------------------------------|----------------|-------|
| Firm name | CONSOR Engineers, LLC | | | Past Performance Evaluation Discipline(s)* | | Bridge | |
| Project name | Golden Gate Bridge Underwater Inspection Services | | | | Firm responsibility (prime or sub?) | | Prime |
| Project number | PSA 2018-B-102 | | Owner's name | Golden Gate Bridge, Highway and Transportation District | | | |
| Project location | Statewide | | | Owner's Project Manager | | Wilson Lau, PE | |
| Owner's address, phone, email | | Box 9000, Presidio Station, San Francisco, CA 94129/wlau@goldengate.org | | | | | |
| Services commenced by this firm (mm/yy) | | | 02/19 | Total consultant contract cost (\$1,000's) | | | \$260 |
| Services completed by this firm (mm/yy) | | | 03/20 | Cost of consultant services provided by this firm (\$1,000's) | | | \$260 |



CONSOR provided underwater inspection services for the South and North Tower Piers and the South Tower Pier Fender of the Golden Gate Bridge in San Francisco, California. Inspections services for this project included visual assessments of the underwater surfaces from the water line to rock or mud line to identify obvious structural defects, cleaning portions of the structures to identify damage and deterioration hidden by marine growth and performing selective non-destructive and/or destructive testing if warranted. Sonar scanning and imaging were specified prior to performing Level I and Level II inspections. The sonar scanning and imaging will be used to create a bathymetric map, which extends 100 ft. from the South Tower Fender and North Tower Pier. A detailed engineering report was prepared for each inspection summarizing the procedures and work plan, locations of the work, daily inspection reports, photos and videos, bathymetric maps plotted to scale (including a plan view of the piers), inspection results, pertinent findings, and recommendations for repairs.

Key Staff: Andrew Young, PE; Michael Dukes, PE; Dustin Noel, PE; Jeffrey Lane

17. Firm Experience:

| | | | | | | |
|---|---|--|---|--|-------------------------------------|-------|
| Firm name | CONSOR Engineers, LLC | | | Past Performance Evaluation Discipline(s)* | Bridge | |
| Project name | Statewide Underwater Bridge Inspections | | | | Firm responsibility (prime or sub?) | Prime |
| Project number | BR-NBIS (101)/105324-109000 (2017 contract) | Owner's name | Mississippi Department of Transportation | | | |
| Project location | Statewide | | | Owner's Project Manager | Richard Withers | |
| Owner's address, phone, email | | P.O. Box 1850 Jackson, MS 39215 / 601.359.7200 / rwithers@mdot.state.ms.us | | | | |
| Services commenced by this firm (mm/yy) | | 01/17 | Total consultant contract cost (\$1,000's) | | | \$858 |
| Services completed by this firm (mm/yy) | | 12/19 | Cost of consultant services provided by this firm (\$1,000's) | | | \$858 |

CONSOR has performed on four consecutive cycles of statewide underwater bridge inspections in accordance with the NBIS. The contracts have included 600+ inspections. Underwater acoustic imaging and hydrographic surveying was performed on six bridges on the Mississippi and Pearl Rivers. Diving conditions included fast flow with debris and limited visibility. Structural conditions were documented with underwater photography.

Non-destructive testing was used to accurately determine section loss of steel piles, and timber piles were inspected using a resistograph instrument. Soundings were taken upstream and downstream of the bridge while full contours were developed for each bridge site. Reports included NBIS component ratings and Pontis Element Level inspections. Scour countermeasures were designed for the I-10 Bridge in Pascagoula when soundings indicated excessive scour had occurred.

Key Staff: Heath Pope, PE; Michael Dukes, PE; Andrew Young, PE; Greyson McDonald, EIT; Donald Roberts; Jeffrey Lane; Matthew Ratliff; Colton Powell; Jayce Cook;; James Talacek; Wesley Trescott; Stephen Rowley.



17. Firm Experience:

| | | | | |
|--|--|--|---|--------------------|
| Firm name | CONSOR Engineers, LLC | | Past Performance Evaluation Discipline(s)* | Bridge |
| Project name | Statewide Underwater Bridge Inspections | | Firm responsibility (prime or sub?) | Prime |
| Project number | 42246 (2014 contract) | Owner's name | Virginia Department of Transportation | |
| Project location | Virginia, Statewide | | Owner's Project Manager | John Cleveland, PE |
| Owner's address, phone, email | 1401 E. Broad Street, Richmond, VA 23219 /804.786.5500 / johna.cleveland@vdot.virginia.gov | | | |
| Services commenced by this firm (mm/yy) | 01/14 | Total consultant contract cost (\$1,000's) | | \$1,702 |
| Services completed by this firm (mm/yy) | 08/18 | Cost of consultant services provided by this firm (\$1,000's) | | \$1,702 |



Under four consecutive contract cycles, CONSOR provided professional diving services for inspection and analysis on bridges at various locations throughout the state of Virginia. The first two cycles of underwater inspections each included 33 complex bridges and ferry terminals along the coast of Virginia. The two subsequent task order-based contract cycles included bridges statewide, totaling 32 task order assignments to date for hundreds of bridges.

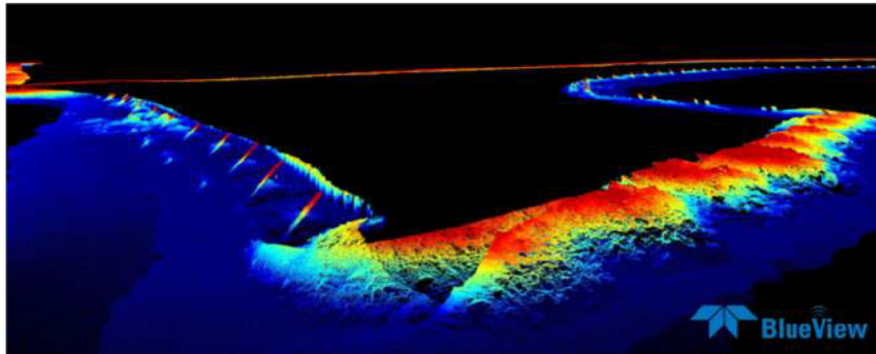
The bridges over Smith Mountain Lake required the company recompression chamber and additional planning due to the depth and altitude of the lake. Underwater assessment included, but was not limited to underwater inspection, analysis of existing conditions, engineering calculations, recommendations for follow-up action, and documentation of findings. A detailed engineering report was prepared for each inspection summarizing the procedures and work plan, locations of the work, daily inspection reports, photos and videos, pertinent findings, and recommendations for repairs.

Key Staff: Jeffrey Rowe, PE; Dustin Noel, PE; Andrew Young, PE; Michael Dukes, PE; Travis Becker, EIT; Greyson McDonald, EIT; Fred Meek; Donald Roberts; Jeffrey Lane; Colton Powell; James Talacek; Matthew Ratliff

17. Firm Experience:

| | | | | | | |
|---|---|---|---|---|-------------------------------------|-------|
| Firm name | Linfield, Hunter & Junius, Inc. | | Past Performance Evaluation Discipline(s)* | | Survey | |
| Project name | South Shore Harbor Marina Dredging Survey | | | | Firm responsibility (prime or sub?) | Prime |
| Project number | N/A | | Owner's name | Non-Flood Protection Asset Management Authority | | |
| Project location | New Orleans, LA | | | Owner's Project Manager | Ms. Wilma Heaton | |
| Owner's address, phone, email | | 6001 Stars & Stripes Blvd., Suite 149, New Orleans, LA 70126 – 504-355-5990 | | | | |
| Services commenced by this firm (mm/yy) | | 09/18 | Total consultant contract cost (\$1,000's) | | | \$55 |
| Services completed by this firm (mm/yy) | | 03/19 (Est.) | Cost of consultant services provided by this firm (\$1,000's) | | | \$55 |

LH&J provided hydrographic and topographic surveying services to the Lakefront Management Authority (Non-Flood Protection Asset Management Authority) to dredge the entrance to the Southshore Harbor on Lake Pontchartrain in New Orleans. The project consisted of pre-construction surveys and a dredge fill analysis to determine the amount of fill available to rebuild approximately 20 acres of the North Peninsula with the dredge material approximately ¼ of a mile away. A Teledyne RESON SeaBat T20P High resolution multibeam echosounder was used to conduct the hydrographic survey. HYPACK/HYSWEEP was used for the post processing of the data with Teledyne Blueview for data imaging and viewing. Carlson Survey was used to calculate dredge volumes from the existing hydrographic data. The project was permitting through CPRA, LADEQ, USACE and SLFPA-E.



Relevant Key Features

- ✓ Hydrographic Surveying
- ✓ Hydrographic Surveying
- ✓ GEOID03, 09, & 12A Conversion
- ✓ SeaBat T50 Multibeam
- ✓ Dredge Volumes
- ✓ HYSWEEP Post Processing

Relevant Key Personnel

- ✓ Nathan J. Junius, P.E., P.L.S.
- ✓ William J. Muller, P.L.S.
- ✓ Daniel D. Bindewald
- ✓ Paul H. Morales, IV

17. Firm Experience:

| | | | | |
|--|--|--|---|--------------|
| Firm name | Linfield, Hunter & Junius, Inc. | | Past Performance Evaluation Discipline(s)* | Survey |
| Project name | Mississippi River Dredging Survey-Avondale Shipyard Redevelopment | | Firm responsibility (prime or sub?) | Prime |
| Project number | N/A | Owner's name | Host Terminals, LLC | |
| Project location | Avondale, LA | | Owner's Project Manager | Scott Graves |
| Owner's address, phone, email | 150 West Main Street, Suite 1600, Norfolk, VA 23510 – 757-627-6286 | | | |
| Services commenced by this firm (mm/yy) | 08/18 | Total consultant contract cost (\$1,000's) | \$135 | |
| Services completed by this firm (mm/yy) | Ongoing | Cost of consultant services provided by this firm (\$1,000's) | \$135 | |

LH&J is providing hydrographic surveying in the Mississippi River and topographic surveying on the batture for the redevelopment of the former Avondale Shipyard property in Avondale, LA. The topographic and hydrographic surveys serve as the base for preliminary plans for dredging plans to allow draft for post-Panamax vessels. These surveys were correlated with the USACE surveys to assist with the USACE, CPRA and Southeast Louisiana Flood Protection Authority-West (SLFPA-W) permitting to deepen the water depth at the face of the existing docks.

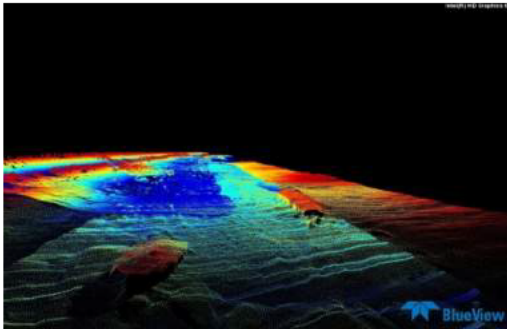
The Teledyne RESON SeaBat T50-P multibeam echosounder with a POS MV WaveMaster II sensor was used for the hydrographic data collection. HYSWEEP by HYPACK was used to post process the data including system alignment and calibration, editing, QC and performance testing. Carlson Survey was used to create contours and TIN surfaces to calculate dredge volumes.

Relevant Key Features

- ✓ Hydrographic Surveying
- ✓ Mississippi River Levee
- ✓ USACE, CPRA, SLFPA-E Permitting
- ✓ SeaBat T50 Multibeam
- ✓ HYPAC/HYSWEEP Post Processing
- ✓ Dredging
- ✓ Side Scan Sonar

Relevant Key Personnel

- ✓ Nathan J. Junius, P.E., P.L.S.
- ✓ Daniel D. Bindewald
- ✓ Paul H. Morales, IV



17. Firm Experience:

| | | | | | |
|---|---|--|---|-------------------------------------|-------|
| Firm name | Linfield, Hunter & Junius, Inc. | Past Performance Evaluation Discipline(s)* | | Survey | |
| Project name | Chris Kennedy Bridge Replacement | | | Firm responsibility (prime or sub?) | Prime |
| Project number | 21-096 | Owner's name | St. Tammany Parish | | |
| Project location | St. Tammany Parish, Louisiana | | Owner's Project Manager | Jason Cambre, P.E. | |
| Owner's address, phone, email | 21454 Koop Drive, Mandeville, LA 70471 / 985-898-2552 / jpcambre@stpgov.org | | | | |
| Services commenced by this firm (mm/yy) | | 11/21 | Total consultant contract cost (\$1,000's) | | 134 |
| Services completed by this firm (mm/yy) | | 03/22 (Est.) | Cost of consultant services provided by this firm (\$1,000's) | | 108 |

This project consists of the replacement of an existing two-lane vehicular bridge over Gum Creek along Chris Kennedy Road in St. Tammany Parish, Louisiana. This project is currently in preliminary design. Preliminary design includes conducting a topographic survey of the existing bridge and vicinity and a hydraulic analysis of the proposed replacement bridge using HEC-RAS to confirm that the new bridge will not adversely impact upstream creek flows.

Also included in preliminary design is an environmental assessment, geotechnical analysis of the proposed replacement bridge, development of preliminary plans and preparation of a preliminary construction cost estimate.

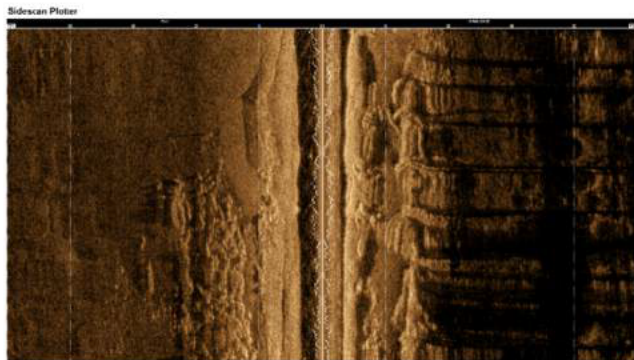
Key personnel: *Nathan J. Junius, P.E., P.L.S.; Daniel D. Bindewald; and Paul H. Morales, IV.*



17. Firm Experience:

| | | | | | |
|--|---|--|---|--|-------|
| Firm name | Linfield, Hunter & Junius, Inc. | | Past Performance Evaluation Discipline(s)* | Survey | |
| Project name | Lake Borgne Shoreline Protection- Resident Inspection, Construction Administration and Side Scan Sonar Survey | | | Firm responsibility (prime or sub?) | Prime |
| Project number | N/A | Owner's name | Coastal Protection and Restoration Authority | | |
| Project location | St. Bernard, LA | | | Owner's Project Manager | |
| Owner's address, phone, email | 150 Terrace Avenue, Baton Rouge, LA 70802 – 225-539-4260 | | | | |
| Services commenced by this firm (mm/yy) | 08/18 | Total consultant contract cost (\$1,000's) | | | \$68 |
| Services completed by this firm (mm/yy) | 09/21 (Est.) | Cost of consultant services provided by this firm (\$1,000's) | | | \$68 |

LHJ was hired to perform a side scan sonar survey for the CPRA Lake Borgne Shoreline Protection Project in St. Bernard Parish, LA. The project involved a side scan sonar survey along both sides of an existing sheet pile wall located near the southwestern shore of Lake Borgne. The side scan would be used by CPRA in an effort to determine the existing conditions of the wall. LHJ utilized a Starfish 452F Side Scan Sonar connected to RTK GPS to perform the survey. Sonar images were reviewed in real time during the survey to ensure necessary sections of the wall were properly scanned. The project is estimated to start construction in June at which time LH&J will perform Resident Inspection, Construction Administration and Project Management services.



Relevant Key Features

- ✓ Side Scan Sonar Surveying
- ✓ Hydrographic Surveying
- ✓ Starfish 452F
- ✓ Starfish Scanline Software
- ✓ Resident Inspection
- ✓ Construction Administration

Relevant Key Personnel

- ✓ Nathan J. Junius, P.E., P.L.S.
- ✓ William J. Muller, P.L.S.
- ✓ Daniel D. Bindewald
- ✓ Paul H. Morales, IV

17. Firm Experience:

| | | | | |
|--|---|--|---|--------------------|
| Firm name | ELOS Environmental, LLC | | Past Performance Evaluation Discipline(s)* | Environmental |
| Project name | DOTD Rural Bridge Replacements (Phase I & Phase II) | | Firm responsibility (prime or sub?) | Sub |
| Project number | REFER TO LIST ON NEXT PAGE | Owner's name | Louisiana DOTD | |
| Project location | Throughout Louisiana | | Owner's Project Manager | Amanda Ranck, P.E. |
| Owner's address, phone, email | 1201 Capital Access Road, Baton Rouge, LA 70002, 225-379-1338, amanda.ranck@la.gov | | | |
| Services commenced by this firm (mm/yy) | 8/20 | Total consultant contract cost (\$1,000's) | | \$314 |
| Services completed by this firm (mm/yy) | Current | Cost of consultant services provided by this firm (\$1,000's) | | \$314 |

ELOS environmental was contracted by DOTD for environmental services as part of the DOTD Rural Bridges Replacement Initiative. The project purpose is to replacement aging and degrading bridges in rural areas throughout Louisiana. ELOS is responsible for conducting Wetland Delineations for several locations. ELOS is was contracted to prepare and send out a Solicitation of Views as part of the requirements of the National Environmental Policy Act (NEPA) of 1970 for federally funded projects. ELOS is also responsible for preparing and submitting permit application packets to the United States Army Corps of Engineers (USACE) and Louisiana Department of Natural Resources (DNR) for Section 10/404 authorization, or Coastal Use Permits, where appropriate. **Services Provided:** NEPA Consulting Services, Wetland Delineations, and Permitting

Key Staff Involved: Lucas Watkins, James Prather, Brian Fortson, Cory Ricks, and Jesse McQuigg.

Phase I Projects

H.013952 H.013955 H.013956 H.013957 H.013958
H.013959 H.013963 H.013964 H.013964 H.013966
H.013966 H.013966 H.013968 H.013968 H.013968
H.013968 H.013970 H.013970 H.013976 H.013976
H.013982 H.013982 H.013982 H.013982 H.013984
H.013984 H.013984 H.013984 H.013984 H.013989
H.013996 H.013996 H.013996 H.013996 H.013997

Phase II Projects

H.014242 H.014243 H.014245 H.014246 H.014247
H.014248 H.014249 H.014250 H.014268



17. Firm Experience:

| | | | | |
|--|---|--|---|-----------------------------|
| Firm name | ELOS Environmental, LLC | | Past Performance Evaluation Discipline(s)* | Environmental |
| Project name | U.S. 51 Improvements (LA 22 - Club Deluxe Rd) | | Firm responsibility (prime or sub?) | Sub |
| Project number | H.008399 | Owner's name | N-Y Associates/NORPC/DOTD | |
| Project location | Hammond to Ponchatoula, LA | | Owner's Project Manager | Bruce Richards/Nick Olivier |
| Owner's address, phone, email | 2750 Lake Villa Drive, Metairie, LA 70002, (504) 885-0500, brichards@n-yassociates.com | | | |
| Services commenced by this firm (mm/yy) | 12/14 | Total consultant contract cost (\$1,000's) | | \$148 |
| Services completed by this firm (mm/yy) | 07/18 | Cost of consultant services provided by this firm (\$1,000's) | | \$148 |

In compliance with National Environmental Policy Act (NEPA) requirements, ELOS assisted in the preparation of an environmental assessment (EA) for the proposed project which included responsibility for developing sections of the EA addressing threatened and endangered species, wetland issues, recreational resources, hazardous and toxic materials impacts, public involvement issues, and agency coordination through SOV letters. ELOS also provided extensive data collection and GIS and mapping production. The DOTD is proposing to expand approximately 2.59 miles of U.S. Route 51 Business between its intersections with Louisiana Highway 22 and Club Deluxe Road in Ponchatoula, Tangipahoa Parish, Louisiana. ELOS was tasked to write a Wetlands Finding report.

ELOS performed site visits and collected data to determine the potential jurisdictional wetlands and other waters of the U.S. Representative sample locations were chosen to characterize the site. At each sample location, vegetation species were recorded and dominance was estimated, soil samples were collected and examined for identification and determination of hydric properties, and observations were made on hydrologic conditions. Data forms and photographs were taken to document site conditions, which will aid in the development of project alternatives. Compensatory mitigation may be required for the unavoidable loss of wetlands, and a mitigation cost analysis will be conducted. **Services Provided:** NEPA Consulting Services, Environmental Assessment, Data Collection, Wetlands Findings Report, and GIS Services.

Key Staff Involved: Lucas Watkins, James Prather, Brian Fortson, and Jesse McQuigg.



17. Firm Experience

| | | | | |
|--|--|--|---|-------------|
| Firm name | ELOS Environmental, LLC | | Past Performance Evaluation Discipline(s)* | Planning |
| Project name | Land Use, Transportation, and Resilience Scenario Planning Study (RPC Task ETangi) | | Firm responsibility (prime or sub?) | Prime |
| Project number | H.013576 | Owner's name | New Orleans Regional Planning Commission/DOTD | |
| Project location | East Tangipahoa Parish, LA | | Owner's Project Manager | Tom Haysley |
| Owner's address, phone, email | 10 Veterans Memorial Blvd, New Orleans, LA 70124, (225) 293-7270, thaysley@norpc.org | | | |
| Services commenced by this firm (mm/yy) | 10/18 | Total consultant contract cost (\$1,000's) | | \$120 |
| Services completed by this firm (mm/yy) | 12/20 | Cost of consultant services provided by this firm (\$1,000's) | | \$62 |

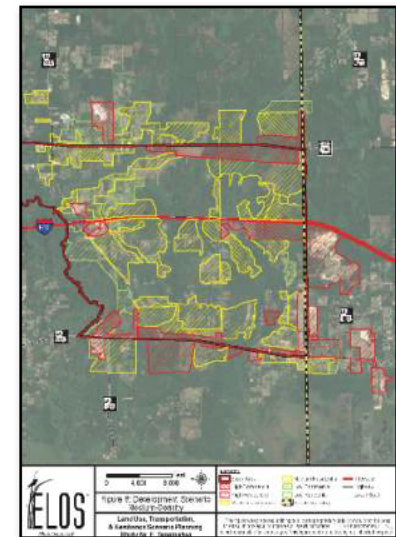
ELOS Environmental was contracted for the land use, transportation, and resilience planning study of the southeastern area of Tangipahoa Parish. The study area's limits are as follows: U.S. Highway 190 to the north, the Tangipahoa River to the west, Louisiana Highway 22 to the south, and the St. Tammany Parish line to the east. On August 9, 2016 the Regional Planning Commission amended and expanded the Metropolitan Planning Area for the South Tangipahoa Urbanized area to include the portion of the parish south of Louisiana Highway 40 and east of the Tangipahoa River in recognition of significant land use development occurring in that area of the parish.

The project is being carried out in coordination with Tangipahoa Parish and the Regional Planning Commission. The ELOS Team performed a study to identify land use scenarios that forecast future residential, commercial, and industrial development within the study area. A traffic study was conducted to determine the existing traffic volume and to model and project future transportation demands. The transportation network in the project area was studied to determine the need for capacity and connectivity projects. With the Tangipahoa River as the Parish's largest watershed, the study also considered flood resilience in the future land use scenarios.

Scenario alternatives were developed to compare impacts from various density levels of commercial, residential, institutional, industrial, and recreational land uses. The ELOS Team suggested a hybrid of the Low- and Medium-Density Scenarios with an I-12 interchange at Firetower Road as the most beneficial option for the Study Area.

A list of transportation improvement projects was identified as were policy suggestions for the Parish to enhance economic development, to use existing infrastructure to the highest and best use, to provide for a wide range of housing costs and living styles, and to consider the natural environment for resilience and storm protection. **Services Provided:** DOTD Stage 0 Checklist, GIS-based Population Model Projections, Land Use Policy Guidance, and Resilience Planning.

Key Staff Involved: Lucas Watkins, James Prather, and Jesse McQuigg.



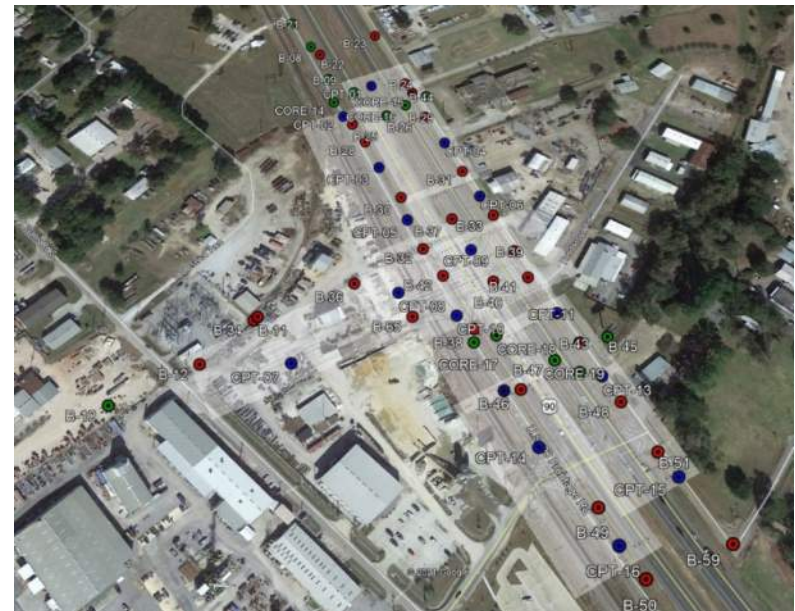
17. Firm Experience:

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| Firm name | Terracon | | Past Performance Evaluation Discipline(s)* | Geotechnical |
| Project name | I-49 South at Verot School Road | | | Firm responsibility (prime or sub?) Sub |
| Project number | H.011235 | Owner's name | Louisiana Department of Transportation and Development | |
| Project location | Lafayette Parish | | Owner's Project Manager | Corey Landry, PE |
| Owner's address, phone, email | 1201 Capitol Access Rd, Baton Rouge, LA 70802 225-379-1889; Corey.Landry@la.gov | | | |
| Services commenced by this firm (mm/yy) | 06/18 | Total consultant contract cost (\$1,000's) | \$442 | |
| Services completed by this firm (mm/yy) | current | Cost of consultant services provided by this firm (\$1,000's) | \$382 | |

Geotechnical subconsultant to Huval and Associates. Provided soil borings, lab testing, piezometer installation and monitoring, soil surveys and boring logs for planned new bridges, roadway widening, and retaining wall structures. Provided pile nominal resistance calculations for bridge substructure, performed stability analysis and settlement predictions for MSE Walls. Traffic control and lane closures were required as part of this project.

Key Members:

Steve Greaber, PE, Lynne Roussel, PE, Matthew Minton,
Brian Alexander



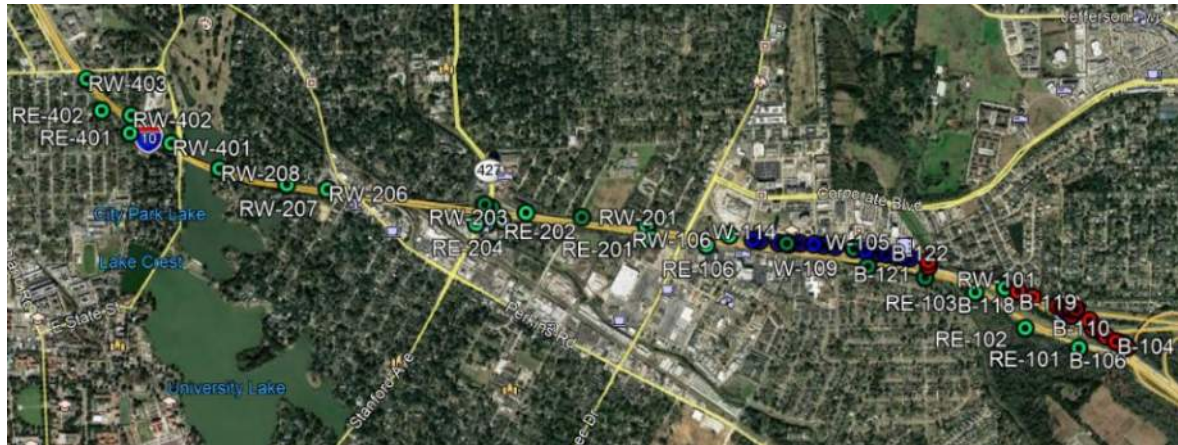
17. Firm Experience:

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| Firm name | Terracon | | Past Performance Evaluation Discipline(s)* | Geotechnical |
| Project name | I-10 Widening | | Firm responsibility (prime or sub?) | Prime |
| Project number | H.004100 EH185220 | Owner's name | Louisiana Department of Transportation and Development | |
| Project location | Baton Rouge, Louisiana | | 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) | 06/19 | Total consultant contract cost (\$1,000's) | \$285 | |
| Services completed by this firm (mm/yy) | 03/20 | Cost of consultant services provided by this firm (\$1,000's) | \$285 | |

Provided soil borings, lab testing, soil surveys and boring logs for planned retaining wall, flyover, and widened roadway. Traffic control and lane closures were required as part of this project.

Key Members:

Steve Greaber, PE, Lynne Roussel, PE,
Matthew Minton, Brian Alexander



17. Firm Experience:

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|--|---|--|---|-------------------|
| Firm name | ECM Consultants | | Past Performance Evaluation Discipline(s)* | Bridge |
| Project name | Crescent City Connection Division - Annual Bridge Inspection | | Firm responsibility (prime or sub?) | Sub |
| Project number | S.P. No. 700-99-0405 | Owner's name | LADOTD | |
| Project location | Orleans Parish, LA | | Owner's Project Manager | Rick Skoien, P.E. |
| Owner's address, phone, email | 1440 US Hwy 90, Bridge City, LA 70094, 504-437-3210, Richard.skoien@la.gov | | | |
| Services commenced by this firm (mm/yy) | 07/07 | Total consultant contract cost (\$1,000's) | | \$540 |
| Services completed by this firm (mm/yy) | 10/08 | Cost of consultant services provided by this firm (\$1,000's) | | \$208 |

ECM provided annual bridge and facility inspection services and report preparation support in accordance with National Bridge Inspection Standards (NBIS) as subconsultant to Michael Baker, Jr. for this **Cantilever Truss Bridge couplet** over the Mississippi River. The east bound bridge was built in 1958 and the west bound bridge was built in 1988. The main span is 1575 ft. and is the 5th longest in the world. The project scope included inspection the following: structural inspection of the Main Bridge both east and westbound structures including approaches and ferry facilities, pontoons, mooring, toll facilities, roadways, striping, drainage, signages, pedestrian bridges, pump station, as well as various buildings of CCCD-owned facilities in Jefferson, Orleans, and St. Bernard Parishes.

Bridge inspection work included inspection of the all superstructure elements such as main steel trusses and connections, girders, columns, concrete deck, joints, pedestals, bearings including support bents, pads, anchor bolts, ramp structures, roadways and signage etc. Physical inspection also included in-depth paint/coating inspection by ECM's NACE certified inspectors. ECM inspectors used aerial boom and scissor lifts for inspections. The annual inspection reports for bridge and facility was prepared conforming to LADOTD requirements and included excel listing all deficiencies with remediation recommendations. ECM coordinated with the CCCD for traffic control plans and lane and shoulder closures during inspection periods.

A report was prepared each year during the biennial inspection detailing specific findings of the inspection, recommendations for repair or maintenance, and a detailed listing of all defects that extended the current established defect listing.



Key Staff: Ujjal DasGupta, PE; Larry Langenstein, PE; Emilio Rodriguez; Ben Dow

17. Firm Experience:

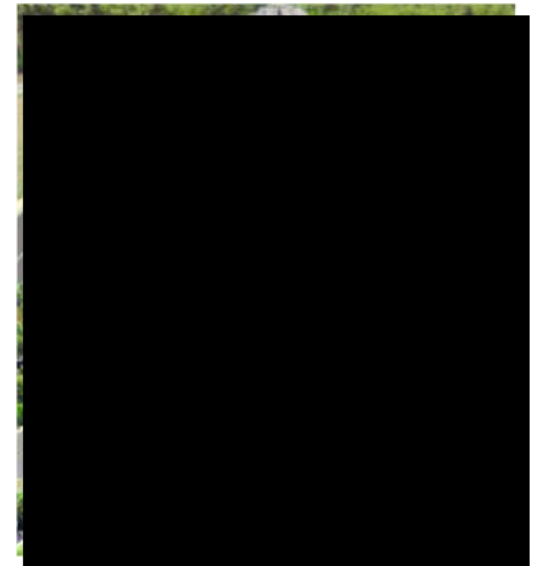
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17. Firm Experience:

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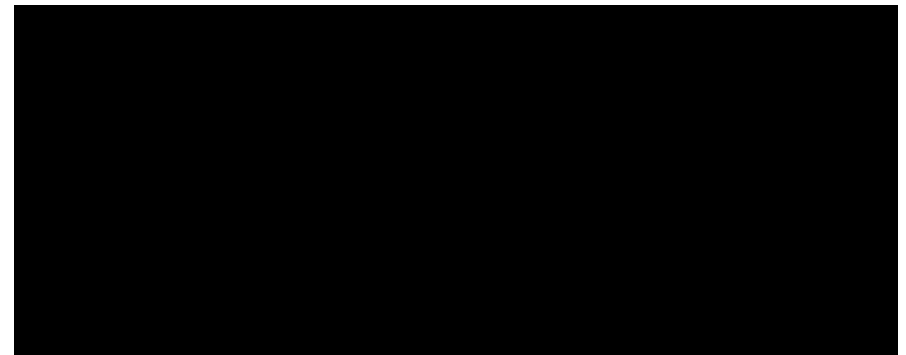
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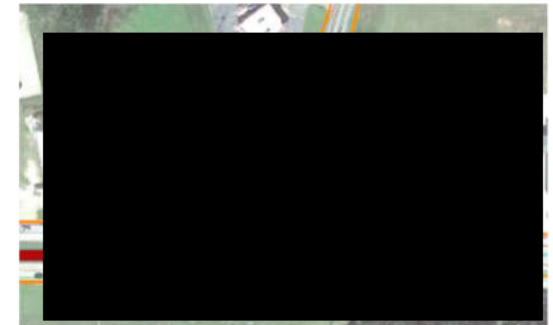
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17. Firm Experience:

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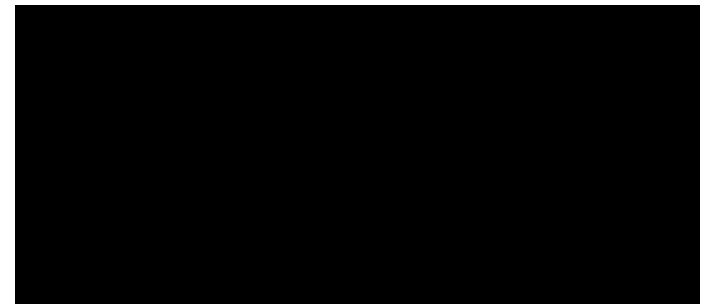
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17. Firm Experience:

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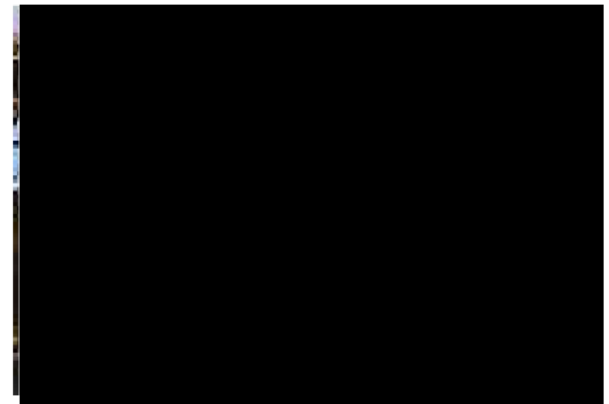
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17. Firm Experience:

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17. Firm Experience:

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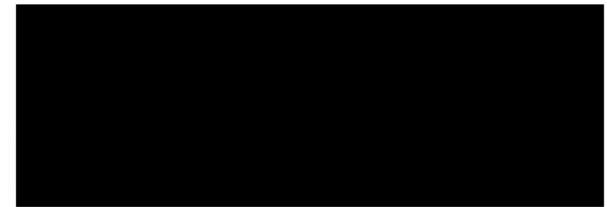
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17. Firm Experience:

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18. Approach and Methodology:

Typical Inspection Task Approach

TASK 1: Mobilization, Start Up and Project Management

For each task assigned, our firm will submit Insurance certificates, schedule, and overall methodology for the performance of the field inspections, Quality Control/Quality Assurance (QA/QC) Plan, Contract Safety Plan, Traffic Control Plans, and fee estimate to LADOTD for approval. Work Zone Training Requirement — Jesse Tisdale, PE has participated in Traffic Control Supervisor training and will ensure all field staff receive Traffic Control Technician training prior to contract execution to meet the work zone requirements. A staff member will collect the available data on AssetWise and LADOTD's microfilm depository, as needed. All project documents will be uploaded on a shared TEAMS site for easy access for all team members where review comments and coordination of notes can be done real time. Reviewing inspection, maintenance and repair history, and rating records will help refine the schedule and provide an opportunity to prepare blank inspection forms and sketches. Once the document review is complete (including inspection reports, fatigue details, and plans), the team leaders will meet to generate an inspection plan for each bridge location. The discussion will be coordinated by Michael Craig, our PM with the safety of the traveling public and our inspection personnel as top priority and will identify site specific needs for the inspection such as support staff, specialty staff, safety equipment, access, and maintenance of traffic (MOT) for both the traveling public and marine traffic. Our team will coordinate the inspection requirements and MOT with local governments, rail agencies, the U.S. Coast Guard (USCG) and other maritime stakeholders to develop an inspection schedule that allows the inspections to be completed expeditiously with minimal impacts to water/vehicular/rail traffic and the surrounding community. Aging complex structures may have welded repairs creating new fatigue-prone details and over constrained conditions may have been introduced. These areas will be identified and accounted for in our inspection plans. Michael will identify and notify LADOTD of any FC members that are misidentified in terms of their fracture critical status.

TASK 2: Field Inspection

Our field staff will be led by Raghuvveer Surapaneni, PE who led a similar complex inspection contract with LADOTD in the past. **CONSOR Engineers** and **ECM** will assist with the bridge inspection services

(underwater and above water) and **KTA** will assist with paint inspection and NDT services.

A detailed in-depth inspection will be performed on all elements of the Deck, Superstructure, and the Substructure. We will also inspect traffic safety features, roadway approaches, channel and channel protection and any bridge postings. In addition, ancillary items such as walkways, railings, safety curbs, barriers, sign gantries, sign structures, signal lights, bridge navigation lights, aerial obstruction lights, drainage systems, and maintenance platforms and supports will be included in the field inspection.

Upon arrival to the site and after reviewing the previous inspection report our inspectors will perform a general evaluation looking across the structure for misalignment of spans horizontally and vertically, unusual movement or noise, distortions or damage created by traffic, flooding, and other environmental influences. We will inspect all FCMs with 100% hands-on access and identify all retrofitted areas and fatigue-prone details in categories D, E and E' and special emphasis locations. Areas of significant section loss or member deterioration will be identified, measured with a D-meter, and documented. If any deterioration is determined to be progressive or significant, we will make recommendations for a load rating update.

CEC, our preferred vendor will assist traffic control set up and inspection access including pin cap removal. We will utilize both our WSP SPRAT NDT bridge inspectors and **KTA** NDT inspectors to perform Ultrasonic testing on bridge pins, based on expertise and minimizing cost for LADOTD. When a crack is found in a steel member, a photograph will be taken to document the condition prior to grinding. The area will then be lightly ground to remove paint around the crack. The team will then use Magnetic Particle (**MT**) testing kit with suspended particle spray and a permanent magnetic yoke to identify the limits of the crack. For determining the limits of cracks overhead our team will use Dye Penetrant (**PT**). A Photograph of the MT or PT on the metal surface will be taken for each crack. Crack length, direction, and location will be documented in our field notes. The tip of the crack and the date of observation will be marked on the base metal with a permanent marker. A final photograph of the marked crack with a 2d scale will be taken. For **Trusses** our team will pay special attention to section loss on the interior faces of the gusset plates and pack rust between the gusset plates and truss members leading to distortion along the free edge of the gusset plates. A scaled drawing of the gusset plates, including fastener lines will be created to document exact locations

of section loss. In addition, our inspectors will identify and document, all areas of pack rust with section loss, typically between cover plates on truss members and floor beams as well as at lacing bars and batten plates on built-up members, and truss members below deck joints or animal nesting. For trusses the most efficient way to access the structure is by rope access by our SPRAT-trained team leaders supported by a UBIU team to inspect directly below the deck. When possible, MOT plan will close the outside right lane for a section of the bridge length where staff will be working. One team will include two members on a UBIU truck to inspect below-deck elements. The second team will include two SPRAT inspectors to perform rope access and structure climbing near the UBIU team to access all fracture critical members (FCMs) that are inaccessible to the UBIU. After completing the inspection for half of the bridge, the MOT plan will switch to the other side of the bridge and inspection will repeat as detailed above.

For **Cable-stayed structures** our teams MOT plan will close the right lane for the section of the bridge where staff will be working. We will utilize one SPRAT level 3 and two SPRAT level 2 inspectors to inspect the pylons. For the underside of the deck, edge girders and floorbeams we will utilize a two-member team in a UBIU and or the bridge traveler if in working condition. Matthew Sullivan and William Mitchell will lead the effort to open (or borescope) the required number of boots and for inspection of the neoprene bearing and the HDPE ducts. This approach was used on the Sidney Lanier, Talmadge, and Sunshine Skyway Cable-stays. The interior of the stay pipes will be inspected for moisture, standing water, grease, and debris from worn HDPE ducts. In locations where the HDPE ducts are worn through the team will closely inspect the wire strands for corrosion. In all cases we will follow the guidelines/procedures from the original designer's Inspection manual. All findings will be documented with multiple photographs. If directed by LADOTD we can utilize forced excitation of the cable stays to determine each cables natural frequency and use this data to determine both the existing tension in the cables as well as determine the optimal dampening system to reduce cable vibrations. WSP recently completed this testing and analysis on the Sidney Lanier and Talmadge bridges in GA. The free length of the cables will be inspected utilizing a robotic cable crawler or a combination of a man lift and drones, as directed by LADOTD.

Underwater inspection of substructure elements, if required, will be performed by our subconsultant **CONSOR Engineers**.

For moveable bridges, the process will be like the Truss Inspection process outlined above and will include in-depth structural, mechanical, electrical inspections according to AASHTO Movable Bridge Inspection, Evaluation Manual, LA Bridge Inspection Manual 5-29-202. Lock out tag out safety precautions will be utilized.

Paint assessment will be performed primarily by **KT A** with WSP NACE staff assisting as needed to maintain the schedule.

Any critical findings during the inspection will be brought to District Inspection Supervisor and ADA of Operations or District Bridge Engineer's attention. The critical finding reports with detailed photos and sketches will be uploaded to AssetWise and will also be included in the inspection report.

Task 3: Report Development and Inspection QC

Upon completion of the inspection WSP will submit initial inspection findings to the LADOTD. We will then prepare a final narrative report including a description of the bridges and relevant structures and an overall summary of the condition of the structures. Repair recommendation, repair quantities, load analysis recommendations and other maintenance recommendations will also be included in the final report.

The QA/QC Manager, Wes Weir, PE, will conduct a review on all project deliverables, including subconsultants, prior to submittal. Once the QC process is complete, Wes will sign and date a QA review certification form attached to the deliverable and return it to Michael for submittal to LADOTD. If Wes finds errors, he will note them and return the package to Michael for correction by the project team member responsible for the deliverable. Once corrected and verified, Wes will sign and date the QA review certification form and return the deliverable to Michael for submittal to LADOTD. Wes will maintain a record of each review and the disposition of prior review comments.

All subconsultants will provide and adhere to their QA/QC plan. Deliverables to WSP will include documentation signed by the subconsultant task lead certifying completion of the QA/QC review. The deliverable will then go through WSP's QMP/QA review prior to submission to LADOTD.

AssetWise program will be used to record all element level inspection notes, condition states, stream profiles, under clearances, etc. All Fracture Critical inspection findings for each fracture critical member and fatigue prone detail will also be included in the AssetWise. These will include a

description of the member, inspection findings, recommendations for repair or testing, and any other significant findings.

Submissions to LADOTD: Bridge inventory forms in AssetWise will be updated. All reports will be submitted electronically to the LADOTD within 45 calendar days from the completion of the field inspections.

Task 4: Load Ratings, Design Repairs and Develop Rehab Plans

Analysis or load rating will only be performed if conditions found during the inspection warrant such action and upon LADOTD's approval. Bridge Load Rating Analysis will be performed utilizing MBE 3rd edition and bridge modeling software applications and procedures approved by LADOTD. WSP has access to most prominently used software applications for complex bridges, such as CSi Bridge, Midas, LARSA, STAAD, and AASHTOWare BrR. WSP recently completed 2,558 load ratings in BrR for SCDOT and are very efficient performing this task if needed. WSP can also provide load testing as needed to avoid unnecessary load postings.

Task 5 Work Proposal, Schedule, Project Management

Repair and rehabilitation design and plans will be developed if tasked by the LADOTD. Upon NTP, Project Manager Michael Craig will schedule a kickoff meeting to initiate the project document review process, review objectives and establish baselines for the work proposal and schedule. The WSP team will develop a work proposal and schedule and submit it to the LADOTD Project Manager for review. Next, the Pre-Design Meeting with the LADOTD Project Manager will be scheduled. Michael will coordinate Discipline Leads monitor the schedule of deliverables and hold regular

| Project Milestones | | | | | | | | | | | | |
|---|--------------|---|---|---|---|---|---|---|---|----|----|----|
| Deliverables | Predecessors | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| TASK 1 – Kick-off, Existing Document Review, Pre-Inspection Review & Coord, Site Visit, Submit Fee Est, Site Inspection Plan, Safety Plan, Traffic Control Plans, QA/QC Plan, Inspection Schedule | | | | | | | | | | | | |
| TASK 2 – NBIS In-depth Inspection, Document Findings in Assetwise, Underwater Inspection (if required), Coating Assessment (if necessary), Update SI&A and BMS forms | | | | | | | | | | | | |
| TASK 3 – Prepare and Submit Inspection Reports – Assetwise and Narrative reports; Recommended Maintenance, Repairs & Rehabilitation. | | | | | | | | | | | | |
| TASK 4 – LRFR Load Rating (if required) - Load Rating Report (30%, 60%, 95%, 100%), As-Built Plan Set (60%, 95%, 100%); Additional Recommended Maintenance, Repairs & Rehabilitation. | | | | | | | | | | | | |
| TASK 5 – Kick-off, Work Proposal, Schedule, Pre-Design Meeting | | | | | | | | | | | | |
| TASK 6 - Survey | | | | | | | | | | | | |
| TASK 7 – Traffic Engineering Study/Report (if required); Environmental Studies/Reports (by supplemental agreement) | | | | | | | | | | | | |
| TASK 8 – Preliminary Design: Pre-design Conf, Design Criteria, Design Application Synopsis, Preliminary Plans, Plan-in-Hand, Estimate, Construction Sequence, Permit Drawings, Drainage and Utility Plans, Geotechnical services (if tasked) | | | | | | | | | | | | |
| <i>Preliminary Plans, Plan-in-Hand</i> | | | | | | | | | | | | |
| <i>Permit Sketches</i> | | | | | | | | | | | | |
| TASK 9 – Final Plans: Final Plans for Construction, Design Calculations, Technical Specs, Estimate, As-Designed LRFR Load Rating, ACP Reviews | | | | | | | | | | | | |
| <i>Final Plans (30%, 60%, 95%, 100%)</i> | | | | | | | | | | | | |
| <i>Miscellaneous Deliverables¹:</i> | | | | | | | | | | | | |
| TASK 10 - Construction Related Engineering Services (CRES) - Engineering Services ² , Final Site Inspection and Testing Report | | | | | | | | | | | | |

¹Miscellaneous Deliverables: Marine and Vehicular Closure Schedule, Transportation Management Plan, Technical Specifications, Construction Cost Estimate, Design Calculations, Theory of Operation Document, Other DOTD Documents and Forms, Pre-Bid Questions/Responses, Plan Revisions/Addenda

²Engineering Services: Shop Drawing & RFI Review, Change Order Documents, Shop Inspection Report, Site Inspection Report.

progress meetings and provide regular progress reports to the LADOTD Project Manager to ensure the LADOTD is involved and/or aware of any needs, issues, and possible solutions and that they are being resolved in a timely manner and that the project is staying on budget and on schedule.

Task 6 Survey: If required **Linfield** will perform the survey work.

Task 7a Traffic Engineering/Study: If required **Stanley Group** will perform the necessary traffic services.

Task 7b Environmental Services: If required **ELOS** will perform the necessary environmental services.

Task 8 Preliminary Design: Our team will prepare the preliminary design as outline below:

- **8.1** Assemble and study data, hold Predesign Conference, generate Design Criteria for LADOTD approval, submit Design Application Synopsis.
- **8.3** Prepare preliminary bridge/road repair/rehab plans.
- **8.4** Prepare construction cost estimates.
- **8.5** If necessary, prepare Sequence of Construction from the preliminary design concepts.
- **8.6** If necessary, prepare permit drawings for navigation permit and wetlands permit.
- **8.7** If necessary, prepare plans for drainage and utility modifications and relocations.
- **8.8** If necessary, railroad coordination, will be provided by LADOTD unless identified and included in the task.
- **8.9** If necessary, Geotechnical Services will be provided by **Terracon**.

Task 9 Final Plans: Arun Saha, Mark Shlyakov and other team members have valuable experience preparing successful repair and rehab plans for LADOTD in the past.

- **9.1 Final Plans Preparation:** Bridge repair and rehabilitation plans will be based on our team's extensive experience, guidance from LADOTD, the AASHTO MBE 3rd Edition, AASHTO LRFD/LFR/ASD Bridge Design Specifications, LADOTD Bridge Design Manual, LADOTD General Guide for Bridge Plan Preparation and the Hydraulics Manual.
- **9.2 Estimate:** Submit the construction cost estimates based on the quantities developed from the final plans.
- **9.3 Load Rating:** An as repaired structural load rating analysis will be performed for the final condition of the bridge.
- **9.4 QC and Constructability:** Bluebeam Studio sessions will be used for electronic QC calculation and plan reviews. All subconsultants are required to submit a copy of their QC plan to WSP for approval and each will conduct quality reviews of their submittals and provide evidence of their review. WSP

will review each subconsultant's work prior to its incorporation into the project. In addition, the WSP Team will use expert construction inspection (CEI) staff to perform independent **constructability reviews**.

- **9.5 Submittals:** All submittals will be made in accordance with current LADOTD policies and procedures, including the ACP review process.

Task 10 Construction Phase Services:

WSP will attend the Preconstruction Meeting. RFIs, and Shop Drawings will be reviewed in a timely manner in accordance with the LADOTD requirements. Michael will continue to be the direct point of contact during the CRES phase and will keep a tracking log of all information; when received, who reviewed, and when review deliverables were returned, to minimize delays. **ECM** will provide Construction Inspection as needed.

Our Approach will minimize cost and provides quality deliverables

Our team provides a combination skilled staff and equipment that will save LADOTD time and cost on this project.

- SPRAT (Rope) Access inspectors with UT 2 certification (minimizing traffic impacts and removing the need for a separate UT team to travel to the site).
- Robotic Cable Crawlers (perform close up inspection of the cables without damaging the outer covering).
- Drones (WSP utilizes US Made Skydio drones to inspect areas that don't require hands on inspection reducing cost.
- 3-D Laser Scanners (for rapid digital modeling of trusses and other complex structures reducing cost for LADOTD).
- In-House Load testing capabilities and extensive experience utilizing load test to remove bridge postings

Proprietary Technologies, Methods or Approaches

WSP does not anticipate utilizing Technologies Methods or Approaches that are Proprietary to WSP or its subs.

19. Workload:

| Firm(s) | Past Performance Evaluation Discipline(s) * | State project number | Project name | Remaining Unpaid Balance** |
|--|---|-----------------------------------|---|----------------------------|
| WSP USA Inc. | Bridge | H.010565.5 | ELEC. & MECH. ENG. ON CALL TO4 | \$5,001 |
| | Bridge | H.972249 | ELEC. & MECH. ENG. ON CALL TO5 | \$24,921 |
| | Bridge | H.010253.5 | ELEC. & MECH. ENG. ON CALL TO6 | \$9,888 |
| | Bridge | H.010251.5 | ELEC. & MECH. ENG. ON CALL TO8 | \$6,281 |
| | Bridge | H.010253.5 | ELEC. & MECH. ENG. ON CALL TO9 | \$85,689 |
| | Bridge | H.010253.5 | ELEC. & MECH. ENG. ON CALL TO10 | \$21,303 |
| | Bridge | H.004791 | Belle Chasse Bridge & Tunnel | \$357,712 |
| | Bridge | H.004791 | Belle Chasse Tunnel Inspection | \$26,432 |
| | Bridge | H.003931.5 | LADOTD P3 Advisory Svcs On Call TO2 | \$543,903 |
| CONSOR Engineers, LLC | Bridge | H.009730.5 | Underwater Bridge Inspection Statewide – Task Order No.4 | \$418,774 |
| Linfield, Hunter & Junius, Inc. | Bridge | H.008145 F.A.P. NO. H001234 | LA 1: Leeville to Golden Meadow, Phase 2 (T-Wall); Route: LA 1 Lafourche Parish | \$59,872.00 |
| ELOS Environmental, LLC | Environmental | H.013958 | Rural Bridge Replacement Initiative: Carpenters Bridge Rd Over Whiskey Chitto | \$15 |
| | Environmental | H.013959 | Rural Bridge Replacement Initiative: Reeds Bridge Rd Over Calcasieu River | \$53 |
| | Environmental | H.013963 | Rural Bridge Replacement Initiative: LA 384 Canal Bridge | \$617 |
| | Environmental | H.013970 | Rural Bridge Replacement Initiative: LA 717 Klondike Canal & Bayou Bridges | \$275 |
| | Environmental | H.013976 | Rural Bridge Replacement Initiative: LA 376 Bayou Bridges | \$432 |
| | Environmental | H.013976 | Rural Bridge Replacement Initiative: LA 376 over Bayous | \$2,876 |

| | | | | |
|-----------------------|---------------|--------------|--|-------------|
| | Environmental | H.013982 | Rural Bridge Replacement Initiative: LA 10 Spur, LA 1042 Bridges Near Greensburg | \$15 |
| | Environmental | H.013984 | Rural Bridge Replacement Initiative: LA 16 Bridges (Isabel to Sun) | \$15 |
| | Environmental | H.013996 | Rural Bridge Replacement Initiative: LA 1074, LA 1075 Bridges Near Rio | \$15 |
| | Environmental | H.013997 | Rural Bridge Replacement Initiative: Local Rd Over Borrow Pit (Blind River) | \$578 |
| ECM Consultants, Inc. | CE&I/OV | H.011767.6-1 | Retainer Contract for Construction Engineering Management & Staff Augmentation Services for District 61, West Feliciana, East Feliciana, Pointe Coupee, West Baton Rouge, East Baton Rouge, Iberville, Ascension, St. James & Assumption Parishes (<i>Bayou Crab Road Bridge Assumption Parish</i>) | \$67,090 |
| | CE&I/OV | H.013579.6 | Retainer Contract for Construction Engineering Management & Staff Augmentation Services for District 61, West Feliciana, East Feliciana, Pointe Coupee, West Baton Rouge, East Baton Rouge, Iberville, Ascension, St. James & Assumption Parishes (<i>DOTD I-10 Pecue Lane I-10 Interchange Phase II</i>) | \$74,641 |
| | CE&I/OV | H.013114.6 | Retainer Contract for Construction Engineering Management & Staff Augmentation Services for District 61, West Feliciana, East Feliciana, Pointe Coupee, West Baton Rouge, East Baton Rouge, Iberville, Ascension, St. James & Assumption Parishes (<i>Southern University Erosion Road Improvements</i>) | \$215,813 |
| | CE&I/OV | H.013606.6 | Retainer Contract for Construction Engineering Management & Staff Augmentation Services for District 61, West Feliciana, East Feliciana, Pointe Coupee, West Baton Rouge, East Baton Rouge, Iberville, Ascension, St. James & Assumption Parishes (<i>Low Cost Safety Improvements Ph. 2</i>) | \$76,668 |
| | CE&I/OV | H.014747.6 | Retainer Contract for Construction Engineering Management & Staff Augmentation Services for District 61, West Feliciana, East Feliciana, Pointe Coupee, West Baton Rouge, East Baton Rouge, Iberville, Ascension, St. James & Assumption Parishes (<i>Southern University Ravine Protection</i>) | \$339,085 |
| | CE&I/OV | H.003370 | I-220/I-20 Interchange Imp & Barksdale Airforce Base (BAFB) Access Road. Design-Build Project. Bossier Parish, LA. | \$709,082 |
| | CE&I/OV | H.0044791 | Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project | \$3,510,031 |

| | | | | |
|----------------------------------|---------------|-------------------------|---|--------------|
| | CE&I/OV | H. 009175.6 | IDIQ CE&I for Safety Projects Statewide with Majority of Work in District 03, 07, and 08 (<i>St. Bernard Signing and Striping Local Road Safety Program</i>) | \$49,670 |
| | CE&I/OV | H.011949.6 | IDIQ CE&I for Safety Projects Statewide with Majority of Work in District 03, 07, and 08 (<i>RWD Signing Plaquemines Parish Local Road Safety Program</i>) | \$155,069 |
| | CE&I/OV | H.012682.6 | IDIQ CE&I for Safety Projects Statewide with Majority of Work in District 03, 07, and 08 (<i>Pedestrian Crosswalk Enh [NO PH2]</i>) | \$419,679 |
| | CE&I/OV | H.006528.6 | IDIQ CE&I for Safety Projects Statewide with Majority of Work in District 03, 07, and 08 (<i>Fenton Elementary Sidewalks</i>) | \$73,099 |
| | CE&I/OV | H.007233.6 | IDIQ CE&I Inspection Services Statewide with Majority of Work in District 03 (<i>Lafayette MPO Non State Pavement Marking Lafayette Parish</i>) | \$35,955 |
| | CE&I/OV | H.0123936 | IDIQ CE&I Inspection Services Statewide with Majority of Work in District 03 (<i>LA 98 Roundabout at Mills St. Route LA 98</i>) | \$450,688 |
| | CE&I/OV | 4400020842 Task Order 1 | IDIQ Contract for Engineering & Inspection of State Regulated Dams with Majority of work in District 03, 07, 61, & 61 Statewide | \$87,345 |
| | CE&I/OV | H.008145.6 | LA1 Leeville to Golden Meadow | \$11,199,053 |
| Stanley Consultants, Inc. | Road | H.011781.5 | LA 675 & LA 87 Improvements in New Iberia | \$41,647 |
| | Road | H.011137 | I-12 (LA 21 to US 190) Widening Design and Construction | \$45,152 |
| | Road | H.013643.5 | LA 951 Roadway Washout Repairs | \$1,373 |
| | Road | H.011909 | US 171 at Boone St. Roundabout | \$6,053 |
| | Road | H.010960 | LA 30 Roundabouts Design | \$5,926 |
| | Road | H.012863.5 | Cypress Island Highway | \$18,029 |
| | Road | H.001344 | US 190: LA 437 to US 190 BUS (Ph.1) | \$2,529 |
| Terracon | Environmental | H.004273.5 | Lafayette Urban Section (I-49 Lafayette Connector) Phase II ESA, Lafayette Parish | \$14,241 |

| | | | | |
|------------------------|--------------|-------------|--|-----------|
| | Geotechnical | H.005967 | Nelson Road Extension and Bridge \$52,423 | \$51,782 |
| | Geotechnical | H.012235.5 | I-49 & Verot School Road | \$22,110 |
| | Geotechnical | H.005121 | LA 1 to LA 415 | \$227,217 |
| | Geotechnical | H.012569 | Little Sugar Creek Bridge | \$4,423 |
| | Geotechnical | H.000385.5 | US190: LA415 & RR Overpass | \$213,763 |
| | Geotechnical | H.003931 | I-10 Lake Charles | \$567,705 |
| | Geotechnical | H.011670 | Loyola Interchange Design-Build | \$346,595 |
| | Geotechnical | H.012033 | Cross Bayou and Caney Bayou | \$94,094 |
| | Geotechnical | H. 002794.5 | LA 308 – Canal Bridges Near Larose | \$87,947 |
| KTA-Tator, Inc. | Bridge | 4400013321 | IDIQ Contract for In-Depth Bridge Inspection Statewide (sub to HNTB) – KTA has not received any task order assignments on this contract to date. | N/A |
| | Bridge | 4400013322 | IDIQ Contract for In-Depth Bridge Inspection Statewide (sub to Gresham, Smith & Partners) | N/A |
| | Bridge | | Task Order #4 – In-Depth Inspection of Complex Structures | \$59,234 |
| | Bridge | 4400020156 | State Project No. H.011965.5, LA 47; IWGO Bridge Rehabilitation (sub to TRC) | \$11,294 |

20. Certifications/Licenses:

WSP USA Inc. Staff Certs

Brendan Jones

| | | | | | | |
|--|--|---|---|--|--|---|
|  | <p style="text-align: center;">National Highway Institute</p> <p style="text-align: center;"><i>Certificate of Training</i></p> <p style="text-align: center;">Brenden Jones</p> <p style="text-align: center;"><small>Has participated in</small></p> <p style="text-align: center;"><i>FHWA-NHI-130055 Safety Inspection of In-Service Bridges</i></p> <p style="text-align: center;"><small>Issued by</small></p> <p style="text-align: center;"><i>C. V. Associates NY; PE, LS, P.C.</i></p> <table border="0" style="width: 100%;"><tr><td style="width: 50%;"><p><small>Date:</small> <i>February 17-28, 2020</i></p><p><small>Location:</small> <i>Harriman, NY</i></p></td><td style="width: 50%;"><p><small>Hours of Instruction:</small> <i>67</i></p></td></tr></table> <table border="0" style="width: 100%;"><tr><td style="width: 50%;"><p> <small>Instructor</small></p><p> <small>Instructor</small></p></td><td style="width: 50%;"><p> <small>Local Coordinator</small></p><p> <small>Michael Davis, P.E. Director, National Highway Institute</small></p></td></tr></table> | <p><small>Date:</small> <i>February 17-28, 2020</i></p> <p><small>Location:</small> <i>Harriman, NY</i></p> | <p><small>Hours of Instruction:</small> <i>67</i></p> | <p> <small>Instructor</small></p> <p> <small>Instructor</small></p> | <p> <small>Local Coordinator</small></p> <p> <small>Michael Davis, P.E. Director, National Highway Institute</small></p> |  |
| <p><small>Date:</small> <i>February 17-28, 2020</i></p> <p><small>Location:</small> <i>Harriman, NY</i></p> | <p><small>Hours of Instruction:</small> <i>67</i></p> | | | | | |
| <p> <small>Instructor</small></p> <p> <small>Instructor</small></p> | <p> <small>Local Coordinator</small></p> <p> <small>Michael Davis, P.E. Director, National Highway Institute</small></p> | | | | | |

SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS



Acknowledges that

BRENDEN REID JONES

*has demonstrated through practical and written examinations,
attainment of SPRAT's*

*Certification Requirements for Rope Access Work,
and is therefore*

CERTIFIED

Level III Rope Access Technician

SPRAT #161236

**AWARDED: May 12, 2019
Expires: May 12, 2022**


ROBERT D. DOHERTY, EVALUATIONS COMMITTEE CHAIR


WILLIAM B. DOHERTY (TRILL), SPRAT PRESIDENT

©2012 - Present - Society of Professional Rope Access Technicians

AdvanceOnline Solutions Online Institute
Certificate of Completion

Brenden Jones

has met the online course completion requirements for

OSHA 10-Hour Construction Safety

This student has completed the formal instruction for the 10-Hour Construction Outreach Program. Topics covered in this program were Introduction to OSHA, Struck-by and Caught-In or Between Hazards, Electrical Safety, Excavation Safety, Fall Protection, Crane Safety, Ladder Safety, Materials Handling, Permit-Required Confined Spaces, Personal Protective Equipment, and Scaffold Safety.

Course ID A0301
Certificate ID 307_1403594
Instructor Rick Gleason
Continuing Education Units 1.0
AdvanceOnline Solutions, Inc. is
authorized by IACET to offer 1.0 CEUs
for this program.

Date 4/25/2017 7:25:00 PM
Time Online 10:06:08
AdvanceOnline Solutions, Inc.,
2400 Augusta Drive, Suite 465
Houston, Texas 77057
www.advanceonline.com
Phone: (713) 621-1100



AdvanceOnline Solutions, Inc. is accredited by the International Association for Continuing Education and Training (IACET) and is authorized to issue the IACET CEU.



**Bureau of Professional and Occupational Affairs
State Registration Board for Professional Engineers, Land Surveyors and Geologists**

P.O. Box 2649
Harrisburg, PA 17105-2649

Telephone: 7177837049
Fax: 7177055540
Website: <http://www.dos.pa.gov/eng>
E-Mail: st-engineer@pa.gov

Courier Address:
2601 North Third Street
Harrisburg PA 17110

December 28, 2020

BRENDEN JONES
185 S 4TH ST
APT 12B
BROOKLYN New York 11211

**Engineer in Training
CERTIFICATE**

| | |
|----------------------------|----------------------|
| Name: | BRENDEN R JONES |
| Certificate Type: | Engineer in Training |
| Certificate Number: | ET029172 |
| DATE OF APPROVAL: | Dec 22 2020 |

Signature — Certificate Holder

Commissioner of Professional and Occupational
Affairs



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

Casey Howard
has participated in

FHWA-NHI-130053 Safety Inspection Refresher Training

hosted by
WSP USA


Date: January 16-18, 2018

Location: Cary, NC

Hours of Instruction: 18


Instructor


Instructor


Local Coordinator


Valerie Briggs, Director
National Highway Institute



U.S. Department
Of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training



NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Casey Howard

has participated in

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

hosted by

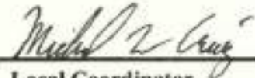
WSP GROUP


Date: *January 27- February 7, 2014*
Location: *Charlotte, NC*

Hours of Instruction: 60


Instructor


Instructor


Local Coordinator


Richard Barnaby, Director
National Highway Institute



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

Casey Howard

has participated in

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

hosted by

Stantec

Date: *August 23-26, 2016*

Hours of Instruction: *25*

Location: *Denver, CO*



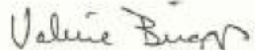
Instructor



Local Coordinator



Instructor



**Valerie Briggs, Director
National Highway Institute**



U.S. Department
Of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training



NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Casey Howard

has participated in

FHWA-NHI-134029 Bridge Maintenance Training

hosted by


WSP GROUP


Date: *October 1-4, 2013*


Hours of Instruction: *24*

Location: *Charlotte, NC*


Instructor


Local Coordinator


Instructor


Richard Barnaby, Director
National Highway Institute



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute
Certificate of Training



Casey Howard

has participated in

FHWA-NHI-130087

Inspection and Maintenance of Ancillary Highway Structures

hosted by

WSP | Parsons Brinckerhoff, Inc.

Date: July 18-19, 2016

Hours of Instruction: 11

Location: Herndon, VA

Instructor

Local Coordinator

Instructor

Valerie Briggs, Director
National Highway Institute



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute
Certificate of Training



Casey Howard

has participated in

FHWA-NHI-130110 Tunnel Safety Inspection


hosted by

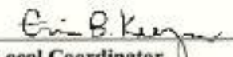
Wetherill Engineering

Date: May 02-06, 2016

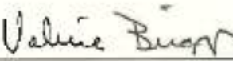
Hours of Instruction: 32

Location: Cary, NC


Instructor


Local Coordinator


Instructor


Valerie Briggs, Director
National Highway Institute



CERTIFICATE OF TRAINING

this certificate is presented to

Casey Howard

for successfully completing a course of instruction on the safe
operation of the aerial basket of the Aspen UB-60


Richard Austin, Instructor

April 3, 2017
Date

<http://freewordtemplates.net/>

Certified Bridge Inspector

Whereas ***Casey Howard*** has shown competency and fitness to conduct bridge inspection as set forth in the National Bridge Inspection Standards and Florida Statute 335.074 Bridge Inspection Standards,

Therefore, under the authority granted by Chapter 14-48 Florida Administrative Code, the State of Florida Department of Transportation hereby issues this certificate numbered ***00556*** as provided by law and object to the powers or revocation vested in said Department on this ***14th*** day of ***June 2016***, A.D.




BRIDGE MANAGEMENT INSPECTION ENGINEER


STATE STRUCTURES MAINTENANCE ENGINEER



Casey Howard

has completed 7 hours of training in

Introduction to Element Level Bridge Inspection

Date: **January 8, 2014**

Location: **Raleigh, NC**

Larry O'Donnell

Henry A. Black, Jr.

Earl Dubin

Timothy S. Earp

Instructor(s)

Coordinator(s)

Welder Training and Testing Institute

Certificate of Completion

Be it known that

Casey Howard

Has attended and successfully completed the
Professional Development Course

Ultrasonic Testing (UT)

Level II

(40 Hours)

Awarded this 18th day of September 2015



Thomas R. Martin

Thomas R. Martin
Instructor / NDT Level III

Robert K. Wiswesser

Robert K. Wiswesser
Director / ASNT Level III



SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS



Acknowledges that

CASEY HOWARD

*has demonstrated through practical and written examinations,
attainment of SPRAT's*

*Certification Requirements for Rope Access Work,
and is therefore*

CERTIFIED

Level 2 Rope Access Technician

SPRAT #151444

AWARDED: February 19, 2021

Expires: February 19, 2024

TROLL, EVALUATIONS COMMITTEE CHAIR

TOM WOOD, SPRAT PRESIDENT


©2012 - Present; Society of Professional Rope Access Technicians



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 2/24/2022 the Louisiana Professional Engineering and Land Surveying Board (LPELS)
has the following information on file:

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

| | | |
|---|--|--|
|  | LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com | |
| | Mr. Casey Jordan Howard | |
| License/Certificate Type - Number | Expiration Date | |
| PE.0042913 | 03/31/2023 | |
| Status: | Active | |

Fold Here →

← Cut Here

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

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

William “Coley” Mitchell



National Highway Institute

Certificate of Training



William Mitchell

has participated in

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

hosted by

WSP GROUP

Date: *January 27- February 7, 2014*
Location: *Charlotte, NC*

Hours of Instruction: 60



Instructor


Instructor



Local Coordinator


Richard Barnaby, Director
National Highway Institute



National Highway Institute
Certificate of Training



William Mitchell

has participated in

FHWA-NHI-130053 Safety Inspection Refresher Training

hosted by

WSP USA

Date: January 16-18, 2018

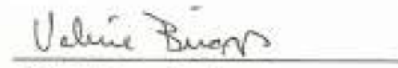
Hours of Instruction: 18

Location: Cary, NC


Instructor


Local Coordinator


Instructor


Valerie Briggs, Director
National Highway Institute



National Highway Institute

Certificate of Training

William Mitchell

has participated in

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

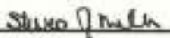
hosted by

WSP

Date: February 18-21, 2014

Hours of Instruction: 21

Location: Cary, NC



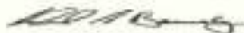
Instructor



Instructor



Local Coordinator


**Richard Barnaby, Director
National Highway Institute**





U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute
Certificate of Training



William Mitchell

has participated in

FHWA-NHI-130087

Inspection and Maintenance of Ancillary Highway Structures

hosted by

WSP | Parsons Brinckerhoff, Inc.

Date: July 18-19, 2016

Hours of Instruction: 11

Location: Herndon, VA

Instructor

Local Coordinator

Instructor

Valerie Briggs, Director
National Highway Institute



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute

Certificate of Training

William (Coley) Mitchell

has participated in

FHWA-NHI-130110 Tunnel Safety Inspection

hosted by

Wetherill Engineering

Date: May 02-06, 2016


Hours of Instruction: 32

Location: Cary, NC


Instructor


Local Coordinator


Instructor


Valerie Briggs, Director
National Highway Institute



Welder Training and Testing Institute

Certificate of Completion

Be it known that

William C. Mitchell

Has attended and successfully completed the
Professional Development Course

Ultrasonic Testing (UT)

Level II

(40 Hours)

Awarded this 18th day of September 2015



Thomas R. Martin

Thomas R. Martin
Instructor / NDT Level III

Robert K. Wiswesser

Robert K. Wiswesser
Director / ASNT Level III

Michael Craig



National Highway Institute
Certificate of Training



Michael Craig

has participated in

FHWA-NHI-130087

Inspection and Maintenance of Ancillary Highway Structures

hosted by

WSP | Parsons Brinckerhoff, Inc.

Date: July 18-19, 2016

Hours of Instruction: 11

Location: Herndon, VA



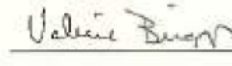
Instructor



Local Coordinator



Instructor



Valerie Briggs, Director
National Highway Institute



U.S. Department
Of Transportation
Federal Highway
Administration

National Highway Institute



NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Certificate of Training

Michael Craig

has participated in

BINS Workshop-013099

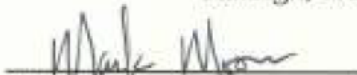
hosted by

North Carolina Department of Transportation

Date: **October 11, 2011**

Hours of Instruction: **6.5**

Location: **Raleigh, NC**




Instructor



Instructor

Local Coordinator



Richard Barnaby, Director
National Highway Institute



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

Michael Craig

has participated in

FHWA-NHI-130053 Safety Inspection Refresher Training

hosted by

WSP USA

Date: *January 16-18, 2018*

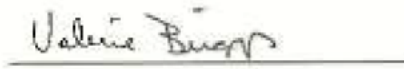
Location: *Cary, NC*

Hours of Instruction: 18


Instructor


Instructor


Local Coordinator


Valerie Briggs, Director
National Highway Institute



National Highway Institute *Certificate of Training*

MICHAEL W. CRAIG

has satisfactorily completed training in

SAFETY INSPECTION OF IN SERVICE BRIDGES

conducted by


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

Location: **RALEIGH, NORTH CAROLINA**

Hours of instruction: **80**

Date: **MARCH 5 - 16, 2001**

Continuing Education Units: **6.0**


Instructor


Coordinator


Director
National Highway Institute


Federal Highway Administrator



National Highway Institute
Certificate of Training



Michael Craig

has participated in

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

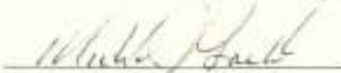
hosted by

Parsons Brinckerhoff

Date: Oct 06-09, 2015

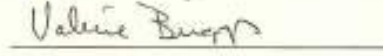
Hours of Instruction: 25

Location: Lawrenceville, NJ


Instructor


Local Coordinator


Instructor


Valerie Briggs, Director
National Highway Institute



National Highway Institute

Certificate of Training



Michael Craig

has participated in

FHWA-NHI-134029 Bridge Maintenance Training

hosted by

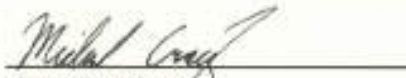
WSP GROUP

Date: October 1-4, 2013


Hours of Instruction: 24

Location: Charlotte, NC


Instructor


Local Coordinator


Instructor



Richard Barnaby, Director
National Highway Institute

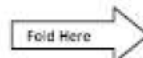
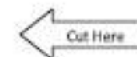


LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 2/22/2022 the Louisiana Professional Engineering and Land Surveying Board (LPELS)
has the following information on file:

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




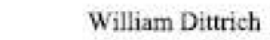

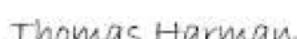
| | | | |
|--|--|---|--|
|  | | LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LPELS) | |
| | | 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com | |
| Mr. Michael Warren Craig | | | |
| License/Certificate Type - Number | | Expiration Date | |
| PE.0041964 | | 03/31/2024 | |
| Status: Active | | | |
| <p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p> | | | |



| | | | | | | | |
|---|--------------------------|--|--|--|--|----|--|
| I | UNITED STATES OF AMERICA | | | | | XI |  |
| DEPARTMENT OF TRANSPORTATION • FEDERAL AVIATION ADMINISTRATION | | | | | | | |
| IV NAME | | | | | | | |
| MICHAEL W CRAIG | | | | | | | |
| V ADDRESS 101 WILANDER DR | | | | | | | |
| CARY NC 27511-6106 | | | | | | | |
| VI NATIONALITY USA | | | | | | | |
| IVa D.O.B. 26 NOV 1972 | | | | | | | |
| SEX HEIGHT WEIGHT HAIR EYES | | | | | | | |
| M 75 225 BROWN BROWN | | | | | | | |
| IX HAS BEEN FOUND PROPERLY QUALIFIED TO EXERCISE THE PRIVILEGES OF | | | | | | | |
| II REMOTE PILOT | | | | | | | |
| III CERTIFICATE NUMBER 3962974 | | | | | | | |
| X DATE OF ISSUE 22 OCT 2019 | | | | | | | |
| XIV  | | | | | | | |
| VIII ADMINISTRATOR | | | | | | |  |

U
A
S

Ross Dewey

| | | |
|--|---|--|
|  U.S. Department of Transportation Federal Highway Administration | National Highway Institute <i>Certificate of Training</i> Ross Dewey <i>has participated in</i> FHWA-NHI-130053 Bridge Inspection Refresher Training <i>hosted by</i> Indiana Department of Transportation |  nhi national highway institute |
| <i>Date:</i> December 1-4, 2020 | <i>Hours of Instruction:</i> 18 | |
| <i>Location:</i> Virtual Delivery, MI | | |
|  Instructor |  Local Coordinator | |
|  Instructor |  Thomas Harman, Director National Highway Institute | |
| <small>Digitally signed by Colin A. McCaughey, P.E. Date: 2020.12.15 12:15:36 -0500</small> | | |
| <small>Finn K. Hubbard 2020.12.09 08:22:05 -0500</small> | | |



National Highway Institute
Certificate of Training



Ross Dewey

has participated in

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

hosted by

Ohio Department of Transportation

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

Hours of Instruction: 67

Guy R. Lang PE
Instructor

Raymond L. Brunk
Local Coordinator

Dennis R. Benjamin, P.E.
Instructor

Valerie Briggs
Valerie Briggs, Director
National Highway Institute



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute

Certificate of Training



Ross Dewey

has participated in

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

hosted by

Texas Department of Transportation

Date: August 15 –18, 2017

Location: Austin, TX

Hours of Instruction: 25

Instructor

Local Coordinator

Instructor

**Valerie Briggs, Director
National Highway Institute**



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

Ross Dewey

has participated in

FHWA-NHI-130110 Tunnel Safety Inspection

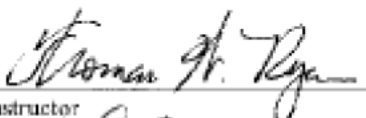
hosted by

WSP USA, Inc.

Date: November 18-22, 2019

Hours of Instruction: 30

Location: Austin, TX


Instructor


Local Coordinator


Instructor


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

CERTIFICATE OF TRAINING

This Is To Certify That

Ross Dewey

Has Successfully Completed

SNOOPER TRUCK TRAINING

Meeting OSHA Standard 1910.67, 1926.21 and 1926.453

Training was Completed On

June 14, 2015
(Date)

Training Was Conducted By:

Charles Brown
(Name of Instructor)

Certified By:


(Signature of Instructor)

***SOCIETY OF PROFESSIONAL
ROPE ACCESS TECHNICIANS***



Acknowledges that

ROSS DEWEY

*has demonstrated through practical and written examinations,
attainment of SPRAT's*

*Certification Requirements for Rope Access Work,
and is therefore*

CERTIFIED

Level II Rope Access Technician

SPRAT #170548

AWARDED: December 13, 2019

Expires: March 03, 2023

ROBERT DUNNEHA, EVALUATIONS COMMITTEE CHAIR

WILLIAM MACCABE (TREASURER), SPRAT PRESIDENT

©2019 - Property of Professional Rope Access Technicians

Joshua Fisher





Coating Inspector Program

Certificate of Completion

NACE International acknowledges that

Joshua Fisher

has successfully completed the
CIP Bridge eCourse and has earned 8.5
professional development hours.

A handwritten signature in black ink, appearing to read "Pamela Nicoletti".

Pamela Nicoletti, Education Director

This certificate of Completion denotes successful completion of the NACE course,
and should not be interpreted as the award of a NACE Institute Certification.



Raghu Surapaneni





National Highway Institute

Certificate of Training

Raghuveer Surapaneni

has participated in

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

hosted by

National Highway Institute

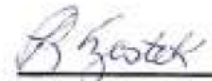
Date: April 8 - 19, 2013

Hours of Instruction: 67

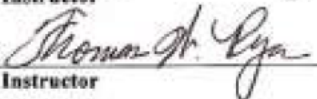
Location: Arlington, VA



Instructor



Local Coordinator



Instructor



Richard Barnaby, Director
National Highway Institute





National Highway Institute *Certificate of Training*

Raghuveer Surapaneni

has satisfactorily completed training in

Fracture Critical Inspection Techniques for Steel Bridges

NHI Course No. 130078

conducted by

Michael Baker Jr. Inc.

Location: Trenton, New Jersey

Hours of instruction: 28

Date: September 24-27, 2001

Continuing Education Units: 2.1

Phil Jil
Instructor

Tom Everett

Moges Pyele
Director, National Highway Institute
Federal Highway Administration

James Lane
Coordinator

M. J. Zuh
Director, Office of Professional Development
Federal Highway Administration



U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute



Certificate of Training

Raghuveer Surapaneni

has participated in

FHWA - NHI Course No. 130099A

Bridge Inspection Nondestructive Evaluation Seminar - BINS (2 Days)


hosted by


LA DOTD/LTRC

Date: October 6-7, 2015

Hours of Instruction: 13

Location: Baton Rouge, LA


Instructor


Local Coordinator


Instructor


Valerie Briggs, Director
National Highway Institute



U.S. Department
Of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training



NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Raghuveer Surapaneni

has participated in

FHWA-NHI-135046

STREAM STABILITY AND SCOUR AT HIGHWAY BRIDGES

hosted by

Pennsylvania Department of Transportation

Date: October 7, 2008
Indiana PA

Hours of Instruction: ¹⁸

Location:


Instructor


Local Coordinator


Instructor


Joseph S. Toole, Associate Administrator
Office of Professional and Corporate Development

CERTIFICATE OF COMPLETION

RAGHUVeer SURAPANENI

No license indicated

has successfully completed the following course

Mobile Elevating Work Platform (MEWP) Safety for Supervisors

this course is approved for **1** Continuing Education hours

December 2 2020

Course Completion Date



Victoria Carrasco, SM of Content & Communications

Two Urban Centre
4890 West Kennedy Boulevard
Suite 300, Tampa, FL 33609
888.546.1212



As an IACET Accredited Provider,
Vector Solutions offers CEUs for its
programs that qualify under the
ANSI/IACET Standard

VECTOR
SOLUTIONS

RedVector

vector.com | 888-546-1212 | 10/20/2020



American Welding Society® Certifies That

Raghuveer Surapaneni

Has Completed the AWS
Certified Welding Inspector Seminar
Charlotte, NC

8 Professional Development Hours

January 16, 2015

Date



Mark Ventura
Director of Operations, Education Services

Raul Acosta-Garcia

| | | |
|--|---|---|
|  U.S. Department of Transportation Federal Highway Administration | <p style="text-align: center;">National Highway Institute</p> <p style="text-align: center;"><i>Certificate of Training</i></p> <p style="text-align: center;"><i>Raul Acosta-Garcia</i></p> |  |
| | <p style="text-align: center;"><i>has participated in</i></p> <p style="text-align: center;">FHWA-NHI-130053 Bridge Inspection Refresher Training</p> <p style="text-align: center;"><i>hosted by</i></p> <p style="text-align: center;">Whitman, Requardt, & Assoc. and Moffatt & Nichol</p> | |
| <p><i>Date:</i> Dec. 4-6, 2017</p> <p><i>Location:</i> Richmond, VA</p> | <p><i>Hours of Instruction:</i> 18</p> | |
| <p>_____ <i>/s/ Jeff Rowe</i> Instructor</p> <p>_____ Instructor</p> | <p>_____ <i>/s/ Suzanne Wheat</i> Local Coordinator</p> <p><u>Thomas Harman</u> Thomas Harman, Director National Highway Institute</p> | |



National Highway Institute *Certificate of Training*

Raul E. Acosta

has participated in
FHWA-NHI Course No. 130055
SAFETY INSPECTION OF IN-SERVICE BRIDGES
hosted by

BOSTON SOCIETY OF CIVIL ENGINEERS & MASSACHUSETTS HIGHWAY DEPARTMENT

Location: Worcester, MA

Date: March 19-30, 2007

A. Cui-Mann
Instructor
Moges Ayale

Director, National Highway Institute
Federal Highway Administration

Hours of instruction: 72

Emil B. B. B.

Coordinator

J. H. K.
Director, Office of Professional Development
Federal Highway Administration



National Highway Institute
Certificate of Training



Raul Acosta

has participated in

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

hosted by

Whitman, Requardt & Associates, LLP

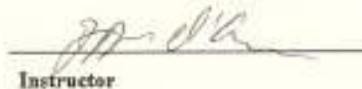
Date: February 4-5, 2015

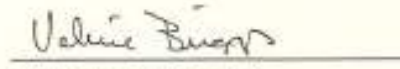
Hours of Instruction: 12 Hours

Location: Richmond, VA


Instructor

Local Coordinator


Instructor


Valerie Briggs, Director
National Highway Institute



U.S. Department
Of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training

Raul Acosta Garcia

has participated in

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

hosted by

ConnDOT

Date: December 3-6, 2013

Location: Newington, CT

Instructor

Instructor

Hours of Instruction: 21

Local Coordinator

Richard J. Barnaby, Director
National Highway Institute



NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence



Ricardo Cornejo

| | | |
|--|---|---|
|  | <p align="center">National Highway Institute</p> <p align="center"><i>Certificate of Training</i></p> |  |
| <p align="center">Ricardo Cornejo <i>has participated in</i></p> | | |
| <p align="center"><i>FHWA-NHI-130055 Safety Inspection of In-Service Bridges</i> <i>hosted by</i></p> | | |
| <p align="center"><i>Georgia Department of Transportation</i></p> | | |
| Date: September 28 –October 9, 2015 | Hours of Instruction: 67 hours | |
| Location: Atlanta, GA | | |
|  Instructor |  Local Coordinator | |
|  Instructor |  Valerie Briggs, Director National Highway Institute | |



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute
Certificate of Training



Ricardo Cornejo

has participated in

FHWA-NHI-130087

Inspection and Maintenance of Ancillary Highway Structures

hosted by

WSP | Parsons Brinckerhoff, Inc.

Date: July 18-19, 2016

Hours of Instruction: 11

Location: Herndon, VA

Instructor

Local Coordinator

Instructor

Valerie Briggs, Director
National Highway Institute

Welder Training and Testing Institute

Certificate of Completion

Be it known that

Ricardo Cornejo

Has attended and successfully completed the
Professional Development Course

UT Thickness Measurement

Level I / II Limited

(8 Hours)

Awarded this 6th day of February 2019



Robert K. Wiswesser

Robert K. Wiswesser
Director / ASNT Level III



Certified Bridge Inspector

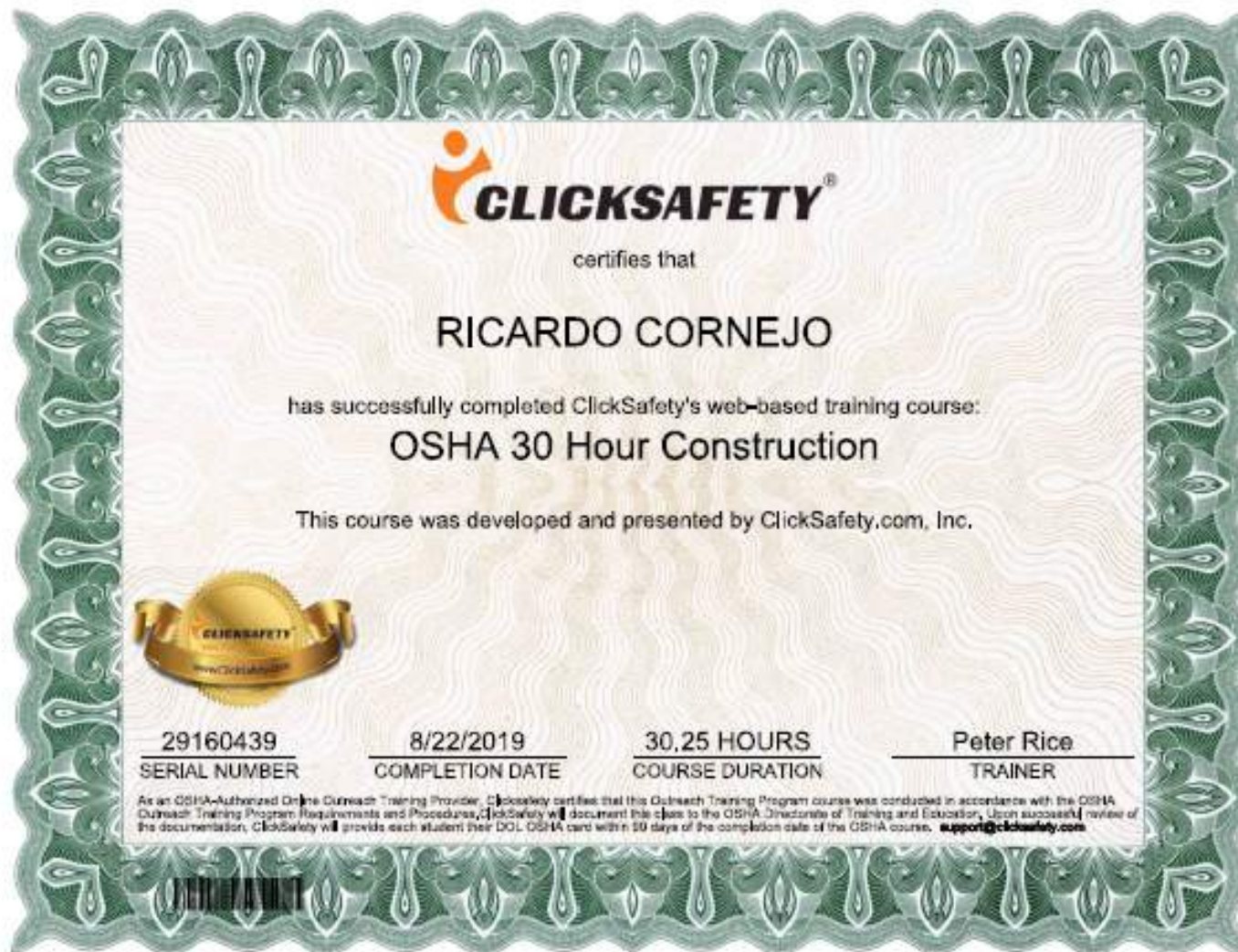
Whereas **Ricardo Cornejo** has shown competency and fitness to conduct bridge inspection as set forth in the National Bridge Inspection Standards and Florida Statute 335.074 Bridge Inspection Standards,

Therefore, under the authority granted by Chapter 14-48 Florida Administrative Code, the State of Florida Department of Transportation hereby issues this certificate numbered **00596** as provided by law and object to the powers or revocation vested in said Department on this **1st** day of **November 2019**, A.D.




BRIDGE MANAGEMENT INSPECTION ENGINEER


STATE STRUCTURES MAINTENANCE ENGINEER





CERTIFICATE OF TRAINING

this certificate is presented to

Ricardo Cornejo

for successfully completing a course of instruction on the safe
operation of the aerial basket of the Aspen UB-60


Richard Austin, Instructor

April 3, 2017
Date

<http://freewordtemplates.net/>



WORLDSPPEC

A Division of Hellier NDT

NDT TRAINING

CERTIFICATE OF TRAINING

Awarded for the successful completion of:

Ultrasonics Testing Level I

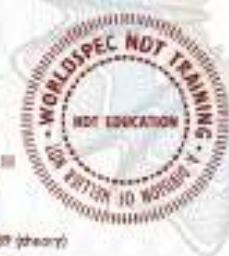
Ricardo Cornejo

Successful testing on:
Ultrasonic Testing Level I
Specific Principles & Applications
Materials & Processes

Effective Date: May 25, 2017

Parker Ray
Director of Operations
WorldSpec NDT Training

Randy Di Lallo
ASNT-ACCP #80073, NDT Level III
CGSB UT Level III MT PT Level II



A minimum of 48 hours Theory Training and Testing in accordance with Recommended Practice SNT-TC-1A 2011, NAS-410 and ASNT CP-105-2006, CP-105 (theory)

Qualification requirements

Ryan Bell





U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

Ryan W. Bell

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Nebraska LTAP

Date: February 2 - 4, 2021

Hours of Instruction: 18

Location: Virtual Delivery, NE

Digitally signed by Caleb A.
McCaughey, P.E.
Date: 2021.02.08 14:46:50 -0500

Instructor

Digitally signed by Randall
Leonard, P.E.
Date: 2021.02.05 15:22:03 -0500

Instructor

Phyllis Schwab

Local Coordinator

Thomas Harman

Thomas Harman, Director
National Highway Institute



National Highway Institute

Certificate of Training

Ryan Bell

has participated in

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

hosted by

Collins Engineers, Inc.

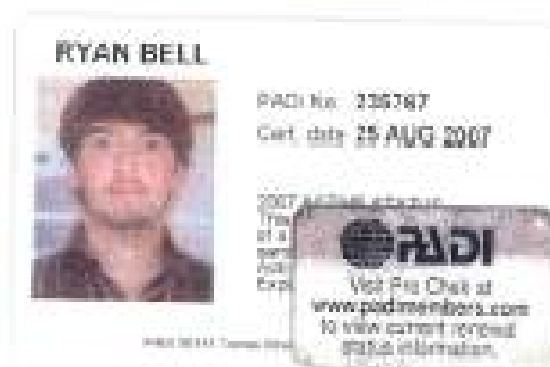
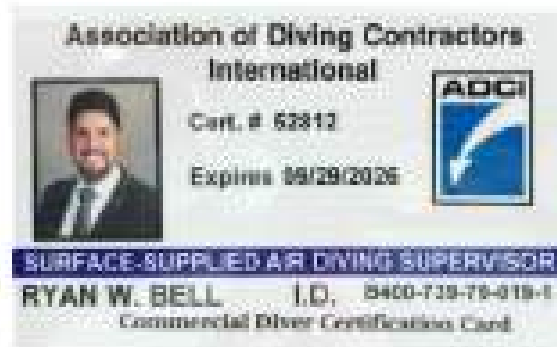
Date: December 6-8, 2013
Location: Dedham, MA

Hours of Instruction: 21

Steven J. Muller
Instructor
Joseph A. Flaherty
Instructor

Cynthia DiLauro
Local Coordinator
Richard Barnaby
Richard Barnaby, Director
National Highway Institute





CERTIFICATE OF COMPLETION



This is to certify that

RYAN BELL

has successfully completed

U2411-WB: Ultrasonic Testing-Basic Theory and Application

on

May 14, 2009

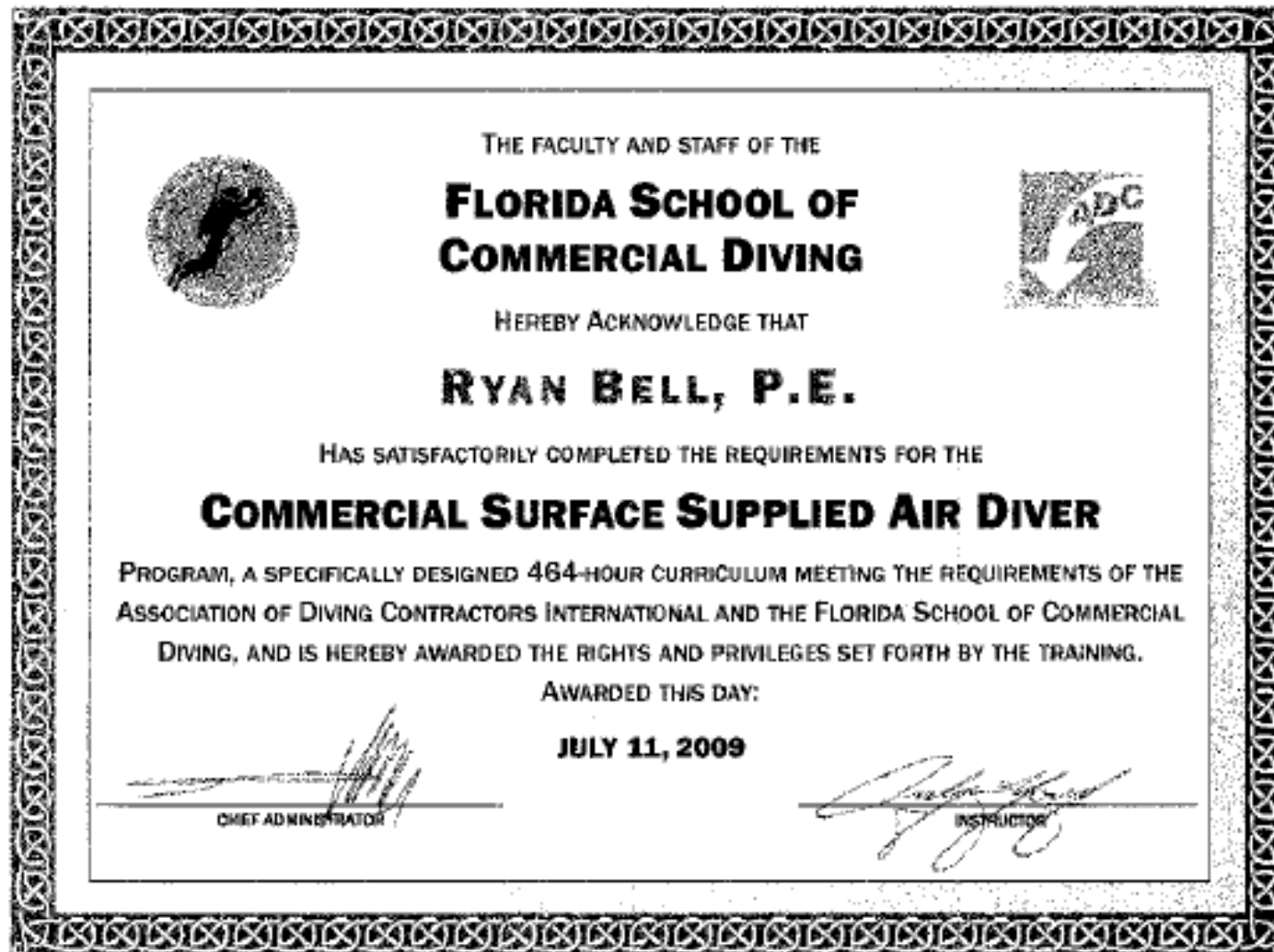
per the guidelines of the ASNT document, **SNT-TC-1A**, *Recommended Practice for Qualification and Certification of NDT Personnel*.

ASNT ACCP Professional Level III

Paul T. Marks

File # 8280

Paul T. Marks



Matthew Sullivan





U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute
Certificate of Training



Matthew Sullivan

has participated in

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


hosted by

MP Engineers, P.C.

Date: February 25-28, 2020
Location: Kingston, NJ

Hours of Instruction: 25


Instructor


Instructor


Local Coordinator


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



U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute
Certificate of Training



Matthew Sullivan

has participated in

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

hosted by

PKB Engineering Corporation

Date: July 14-15, 2015

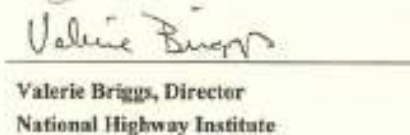
Hours of Instruction: 12

Location: Secaucus, NJ


Instructor


Local Coordinator


Instructor


Valerie Briggs, Director
National Highway Institute



U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training

Matthew Sullivan

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Rhode Island Department of Transportation

Date: February 26-28, 2019

Location: East Greenwich, RI

Hours of Instruction: ¹⁸
~~24~~


Instructor

Instructor


Local Coordinator


Michael Davies, Director
National Highway Institute





National Highway Institute
Certificate of Training



Matthew Sullivan

has participated in

FHWA-NHI-130110 Tunnel Safety Inspection


hosted by

National Highway Institute

Date: Sep. 12-16, 2016

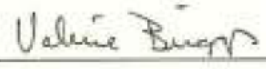
Hours of Instruction: 32

Location: Arlington, VA


Instructor


Local Coordinator


Instructor


Valerie Briggs, Director
National Highway Institute



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training

Matthew Sullivan

has participated in

130125 Tunnel Safety Inspection Refresher ILT

hosted by

BSCES

Date: March 30 - April 1, 2021

Hours of Instruction: 17

Location: Online Delivery, MA

Instructor

Instructor

Richard Keenan

Local Coordinator

Thomas Harman, Director
National Highway Institute



SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS



Acknowledges that

MATTHEW SULLIVAN

*has demonstrated through practical and written examinations,
attainment of SPRAT's*

*Certification Requirements for Rope Access Work,
and is therefore*

CERTIFIED

Level 2 Rope Access Technician

SPRAT # 130358

AWARDED: May 21, 2021

Expires: May 21, 2024


TOEEL, EVALUATIONS COMMITTEE CHAIR

TOM WOOD, SPRAT PRESIDENT

©2012 - Presents Society of Professional Rope Access Technicians

| | | | | | | |
|--|--|--|--------|---|-------|---|
| I UNITED STATES OF AMERICA | | XI | |  | | |
| DEPARTMENT OF TRANSPORTATION • FEDERAL AVIATION ADMINISTRATION | | | | | | |
| IV NAME | | | | | | |
| MATTHEW P SULLIVAN | | | | | | |
| V ADDRESS 31 BLITHEWOOD AVE APT 1006 | | | | | | |
| WORCESTER MA 01604-3555 | | | | | | |
| VI NATIONALITY USA | | SEX | HEIGHT | WEIGHT | HAIR | EYES |
| IVa D.O.B. 18 DEC 1984 | | M | 74 | 180 | BROWN | BLUE |
| IX HAS BEEN FOUND TO BE PROPERLY QUALIFIED TO EXERCISE THE PRIVILEGES OF | | | | | | A |
| I REMOTE PILOT | | | | | | S |
| III CERTIFICATE NUMBER | | | | 4172067 | | |
| X DATE OF ISSUE | | | | 28 AUG 2018 | | |
| XIV | |  | | | |  |
| VII | | ACTING ADMINISTRATOR | | | | |


Ian Chaney



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 2/18/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS)
has the following information on file:

Mr. Ian James Chaney
4649 Pleasant Avenue
Norfolk, Virginia 23518



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

Mr. Ian James Chaney

| | |
|-----------------------------------|-------------------|
| License/Certificate Type - Number | Expiration Date |
| PE.0042288 | 09/30/2022 |
| Status: Active | |

Cut Here


Fold Here

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

L.A.R. S. 37:589 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

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


Noemy Roman



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Ms. Noemy B. Roman
1509 Aqua Marine Boulev.
Avon Lake, OH 44012



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

Ms. Noemy B. Roman
License/Certificate Type - Number Expiration Date
PE.0043748 03/31/2022
Status: Active

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

L.A.R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

Cut Here

Fold Here


Wes Weir



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Wesley Reed Weir
228 Prestwick Drive
Broadview Heights, OH 44

| | |
|---|-----------------|
|  | |
| LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com | |
| Mr. Wesley Reed Weir | |
| License/Certificate Type - Number | Expiration Date |
| PE.0035035 | 03/31/2022 |
| Status: Active | |



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

LA R.S. 37:609 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

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



U.S. Department
Of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training



NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

WESLEY R. WEIR, TranSystems Corporation

has participated in

FHWA-NHI-130053/TxDOT BRG200 Bridge Inspection Refresher Training

hosted by

Texas Department of Transportation

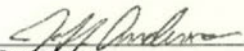
Date: December 12, 2013

Hours of Instruction: 24

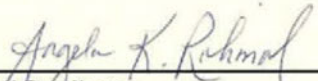
Location: Austin, TX




Instructor



Instructor



Local Coordinator



Richard Barnaby, Director
National Highway Institute



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute *Certificate of Training*

WESLEY WEIR

has satisfactorily completed training in

SAFETY INSPECTION OF IN-SERVICE BRIDGES

conducted by

MICHAEL BAKER JR., INC.

Location: NEWINGTON, CT.

Hours of instruction: 80

Date: JANUARY 23 - FEBRUARY 3, 1995

Continuing Education Units: 6

J. C. Mann
Instructor

Joseph K. Kawaihara
Coordinator

George M. Krieger
Director, National Highway Institute

Thomas E. Oster
Federal Highway Administrator



National Highway Institute
Certificate of Training



Wesley Weir

has participated in

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

hosted by

Texas Department of Transportation

Date: April 18-29, 2016

Location: San Antonio, TX

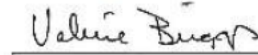
Hours of Instruction:

67

 ***P.E.***
Instructor


Instructor


Local Coordinator


Valerie Briggs, Director
National Highway Institute



U.S. Department
Of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training

Wesley Weir

has participated in

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


hosted by

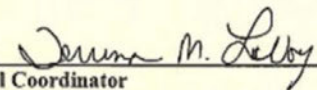
Michigan Department of Transportation

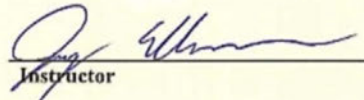
Date: March 6, 2009

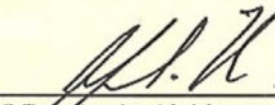
Location: Lansing, MI

Hours of Instruction: 28


Instructor


Local Coordinator


Instructor


Joseph S. Toole, Associate Administrator
Office of Professional and Corporate Development



NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

***SOCIETY OF PROFESSIONAL
ROPE ACCESS TECHNICIANS***



Acknowledges that

WESLEY WEIR

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

CERTIFIED

Level I Rope Access Technician

SPRAT #120956

AWARDED: December 16, 2016

Expires: December 16, 2019

CHARLEY RANKIN, EVALUATIONS COMMITTEE CHAIR

IAIN GAULT, SPRAT PRESIDENT

©2012 – Society of Professional Rope Access Technicians



U.S. Department
of Transportation
**Federal Highway
Administration**

National Highway Institute



Certificate of Training ***Wesley Weir***

has participated in

FHWA-NHI-130110 ~ Tunnel Safety Inspection


hosted by

Caltrans - Structure Maintenance & Investigations

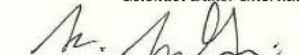
Date: January 9 - 13, 2017

Hours of Instruction: 32 hours

Location: Sacramento, California



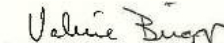
Instructor Paul McGuinness, P.E.
Michael Baker International



Instructor Matthew McGuire, P.E.
HDR



Local Coordinator Anthony Traina, CT-SM&I



Valerie Briggs, Director
National Highway Institute



pennsylvania
DEPARTMENT OF TRANSPORTATION

Certificate of Training

Wesley Weir

On 5/9/2019 successfully completed the

Bridge Inspection Refresher Course

Sponsored by the Highway Administration Deputate

Presented by: Michael Baker International
With the score of: 76.38%
Continuing Education Credits: 20 PDHs

A handwritten signature in blue ink, reading "Daryl R. St. Clair".

Daryl R. St. Clair
Highway Administration Deputate

Access the Technical Training and Development Section's Training Calendar for information on current program offerings <http://www.dot.state.pa.us/tc>



SOCIETY OF PROFESSIONAL ROPE ACCESS TECHNICIANS



Acknowledges that

WESLEY WEIR

*has demonstrated through practical and written examinations,
attainment of SPRAT's*

Certification Requirements for Rope Access Work,

and is therefore

CERTIFIED

Level 1 Rope Access Technician

SPRAT #120956

AWARDED: March 26, 2021


Expires: March 26, 2024

TROLL .. EVALUATIONS COMMITTEE CHAIR

GUY WOOD SPRAT PRESIDENT

©2012 - Presently Society of Professional Rope Access Technicians


Kevin Walsh



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018 , the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Kevin William Walsh
2202 North West Shore Bc
Tampa, FL 33607



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

Mr. Kevin William Walsh
License/Certificate Type - Number Expiration Date
PE.0044049 03/31/2022
Status: **Active**

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


LAR. 5:37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

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


Antonio Gonzalez



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018 , the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Antonio Gonzalez Jr.
2202 North West Shore Bc
Tampa, FL 33607-5747



**LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)**

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

Mr. Antonio Gonzalez Jr.


| | |
|-----------------------------------|-------------------|
| License/Certificate Type - Number | Expiration Date |
| PE.0038719 | 09/30/2022 |
| Status: Active | |

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

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

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


Trevor Johnson



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 2/18/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS)
has the following information on file:

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



**LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)**

9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6251
www.lapels.com

Mr. Trevor K. Johnson

| | |
|--|--------------------------------|
| <small>License/Certificate Type - Number</small> | <small>Expiration Date</small> |
| PE.0045518 | 09/30/2023 |
| Status: Active | |

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

LAR, S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

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


Amaka Anderson



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018 ,the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Ms. Amaka Rita Amalu-An
1000 Sawgrass Corp Parkv
Sunrise, FL 33027



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

Ms. Amaka Rita Amalu-Anderson

| | |
|--|--------------------------------|
| <small>License/Certificate Type - Number</small> | <small>Expiration Date</small> |
| PE.0041985 | 03/31/2022 |
| Status: Active | |

Cut Here ←

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

LAR. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

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

Christopher Ray



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

Certificate of attendance and participation for:


Christopher Ray

Training Course:
Maintenance and Rehabilitation of Historic Bridges

July 2020

You have earned 4 PDH units that can be applied to applicable
continuing education requirements for professional engineering
licensure.


Mead & Hunt Instructor
Amy Squitieri


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

CONSOR Engineers Staff Certs

Heath Pope





U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training



Heath Pope

has participated in

Bridge Safety Inspection Refresher Training

hosted by

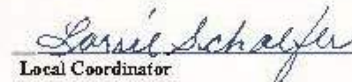
Oregon Department of Transportation

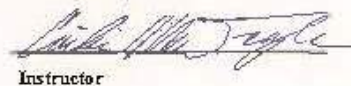
Date: January 23 through January 25, 2018

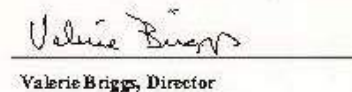
Hours of Instruction: 18

Location: Salem, Oregon


Instructor


Local Coordinator


Instructor


Valerie Briggs, Director
National Highway Institute



National Highway Institute *Certificate of Training*

Heath Pope

has participated in

Safety Inspection of In-Service Bridges

hosted by

Michigan Department of Transportation

Location: Lansing

Hours of instruction: 80

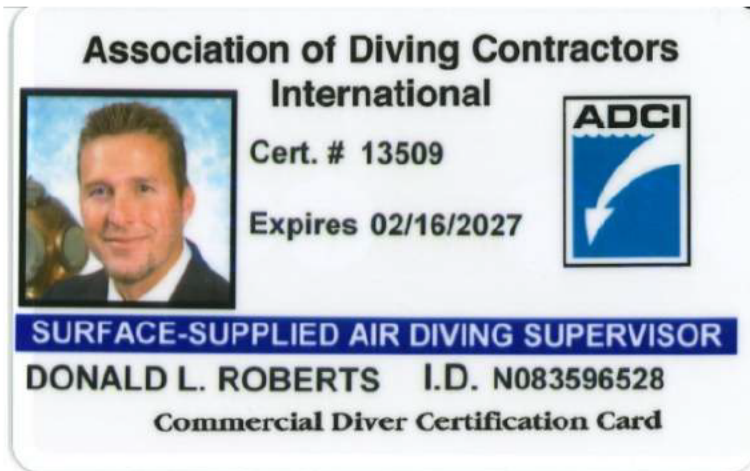
Date: February 4, 2005

William R. Sedris
Instructor
Morgan Syelle

Director, National Highway Institute
Federal Highway Administration

James M. Lelvy
Coordinator
M. L. K.
Director, Office of Professional Development
Federal Highway Administration

Donald Roberts






National Highway Institute

Certificate of Training

Donald Roberts

has participated in

FHWA-NHI-NI13-130053 Bridge Inspection Refresher

hosted by

Texas Department of Transportation

Date: April 3-5, 2018

Location: Austin, TX



Hours of Instruction: 18

[Signature]
Instructor

[Signature]
Local Coordinator

[Signature]
Instructor

[Signature]
Valerie Briggs, Director
National Highway Institute

National Highway Institute

Certificate of Training

Donald Roberts

has satisfactorily completed training in

Safety Inspection of In-Service Bridges
(Course 130055)

conducted by

Michael Baker Jr. Inc.

Location: Springfield, Illinois

Date: January 6-17, 2003

Hours of Instruction: 90

Continuing Education Units: 6.0

[Signature]
Inspector

[Signature]
Coordinator

[Signature]
Director, National Highway Institute
Federal Highway Administration

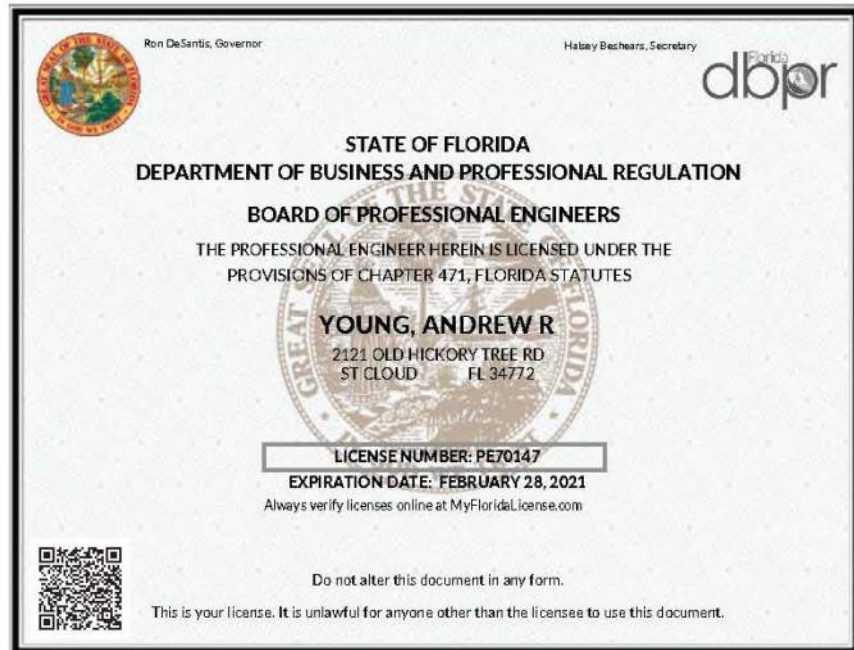
[Signature]
Director, Office of Professional Development
Federal Highway Administration

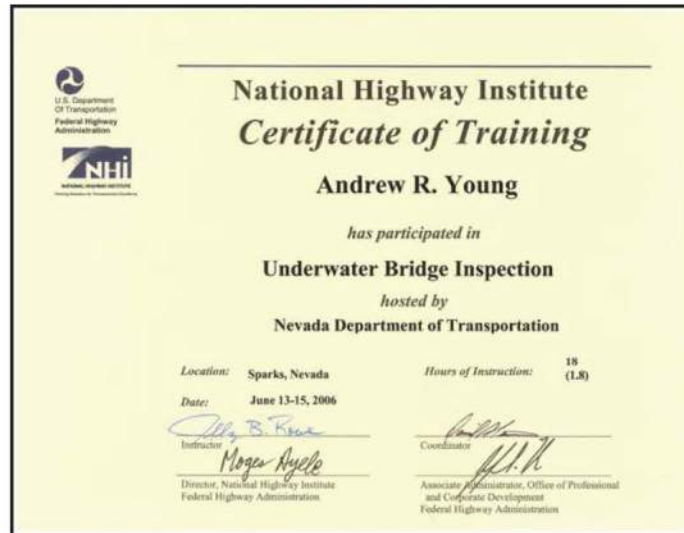
Michael Dukes





Andrew Young





Dustin Noel





FHWA-approved equivalent to NHI 130055, Safety Inspection of In-service Bridges



Sebastian Templeton





U.S. Department
Of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training

Sebastien Templeton

has participated in

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

hosted by

National Highway Institute

Date: April 8 - 19, 2013

Location: Arlington, VA

Hours of Instruction: 67




Instructor



Instructor



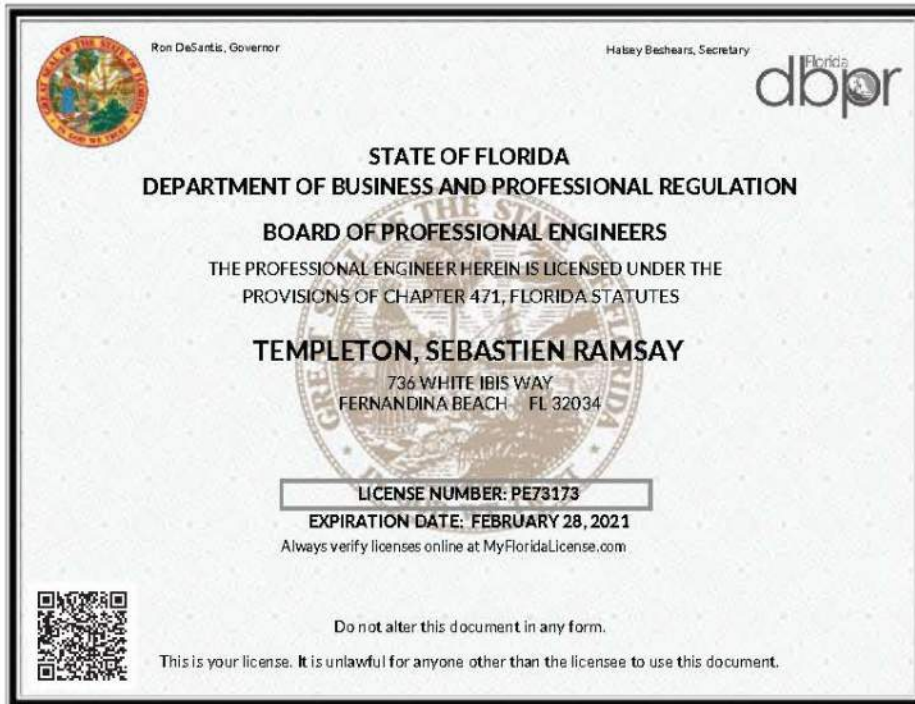
Local Coordinator




Richard Barnaby, Director
National Highway Institute



NATIONAL HIGHWAY INSTITUTE
Expanding Solutions for Transportation Challenges



Andrew Conin



Office of the Professions

Verification Searches

The information furnished at this web site is from the Office of Professions' official database and is updated daily, Monday through Friday. The Office of Professions considers this information to be a secure, primary source for license verification.


License Information *


06/04/2019

Name : CRONIN ANDREW DAVID
Address : FORT MITCHELL KY
Profession : PROFESSIONAL ENGINEERING
License No: 089647
Date of Licensure : 06/20/2011
Additional Qualification :
Status : REGISTERED
Registered through last day of : 05/22

* Use of this online verification service signifies that you have read and agree to the [terms and conditions of use](#). See [HELP glossary](#) for further explanations of terms used on this page.

- Use your browser's back key to return to licensee list.
- You may [search](#) to see if there has been recent disciplinary action against this licensee.
- Note: The Board of Regents does not discipline *physicians (medicine)*, *physician assistants*, or *specialist assistants*. The status of individuals in these professions may be impacted by information provided by the NYS Department of Health. To search for the latest discipline actions against individuals in these professions, please check the New York State Department of Health's [Office of Professional Medical Conduct](#) homepage.





Association of Diving Contractors International

Cert. # 46510

Expires 06/13/2024

SURFACE-SUPPLIED AIR DIVER

ANDY CRONIN I.D. 3462

Commercial Diver Certification Card



National Highway Institute

Certificate of Training



Andrew Cronin

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection


hosted by


U.S. Army Corps of Engineers


Date: April 8-11, 2014

Hours of Instruction: 21

Location: Portland, OR


Instructor


Local Coordinator


Instructor


Richard Barnaby, Director
National Highway Institute



National Highway Institute

Certificate of Training



Andrew David Cronin

has participated in

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


hosted by

MP Engineers, P.C.


Date: June 17-21, 2019


Hours of Instruction: 34

Location: Kingston, NJ

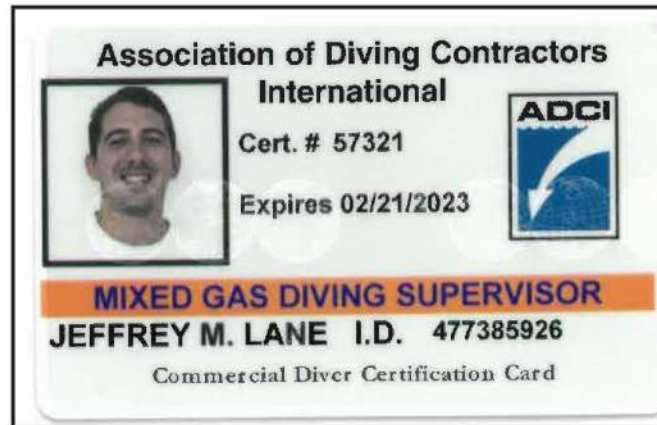

Instructor


Local Coordinator


Instructor


Michael Davies, Director
National Highway Institute

Jeffrey Lane






National Highway Institute

Certificate of Training

Jeff Lane

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Missouri Department of Transportation

Date: July 17-19, 2018
Location: Jefferson City, MO

Hours of Instruction: 18

[Signature]
Instructor

[Signature]
Local Coordinator

[Signature]
Instructor

[Signature]
Valerie Briggs, Director
National Highway Institute




National Highway Institute

Certificate of Training

Jeffrey Lane

has participated in

FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

MP Engineers, P.C.

Date: October 11-14, 2021
Location: Princeton, NJ

Hours of Instruction: 24

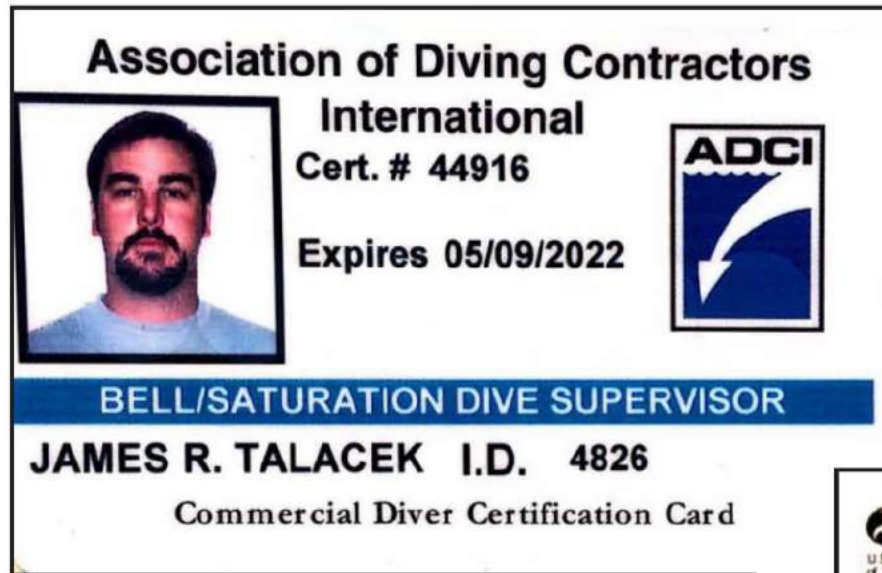
[Signature]
Instructor

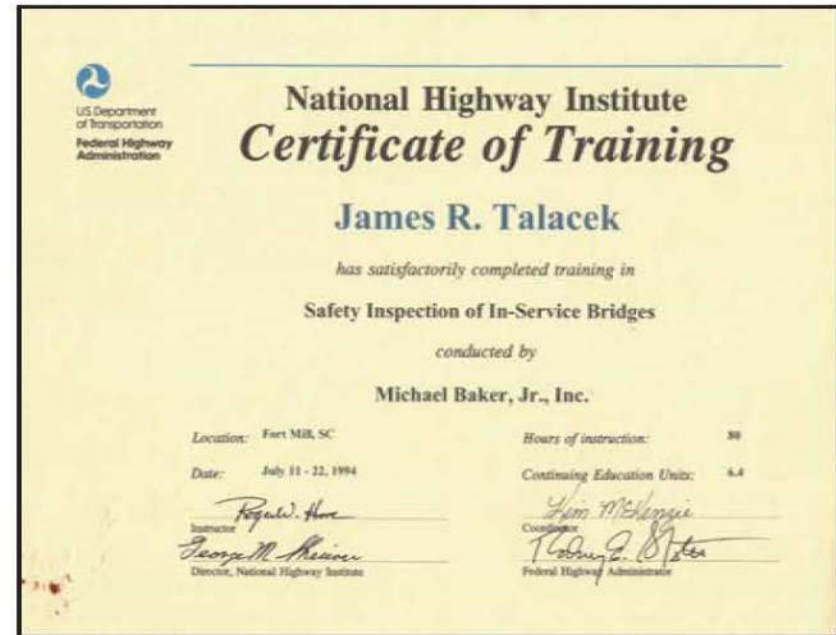
[Signature]
Local Coordinator: Mahendra Patel, P.E.

[Signature]
Instructor

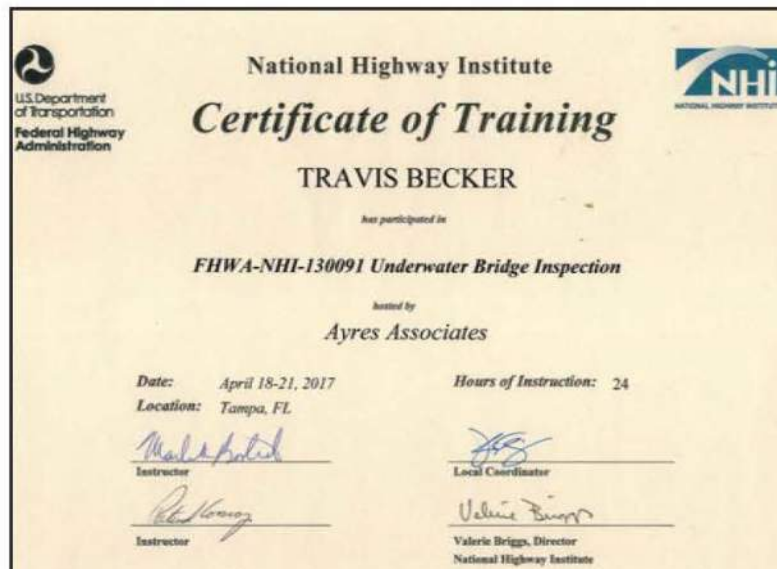
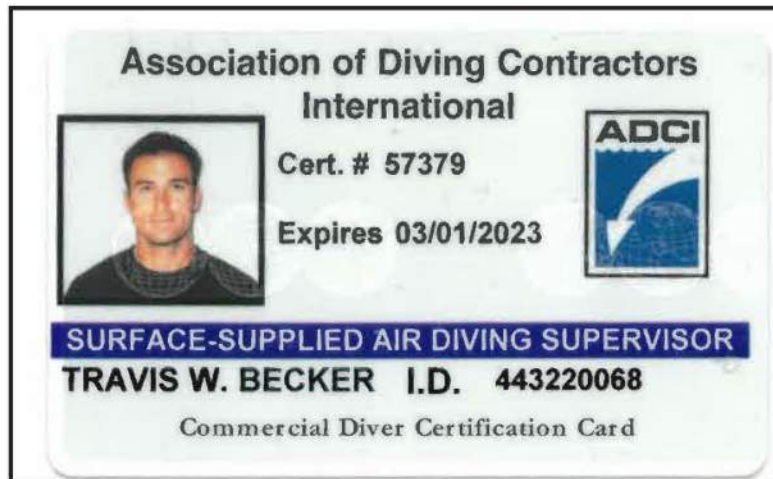
[Signature]
Thomas Harman, Director
National Highway Institute

James Talacek





Travis Becker





COMMONWEALTH of VIRGINIA

Department of Professional and Occupational Regulation

Terence R. McAuliffe
Governor

January 31, 2018

Todd Haymore
Secretary of
Commerce and Trade

Jay W. DeBoer
Director

TRAVIS W BECKER

6010 CLOVER LANE
HENRICO, VA 23228

Re: Designation Number 0420070662

Dear TRAVIS W BECKER:

Congratulations, you have met all testing and documentation requirements and have been granted the Engineer-in-Training (EIT) Designation, effective January 31, 2018. As the EIT designation is neither a license nor a certification, there is no expiration of the designation.

You may download a copy of the APELSCIDLA Board Regulations at <http://www.dpor.virginia.gov/Boards/APELS>. Please refer to the Regulations for information concerning the qualifications for licensing of Professional Engineers in Virginia.

If you need further assistance, please contact the Board office by email at apelscidla@dpor.virginia.gov or telephone at 804-367-8506

Sincerely,

Board for APELSCIDLA

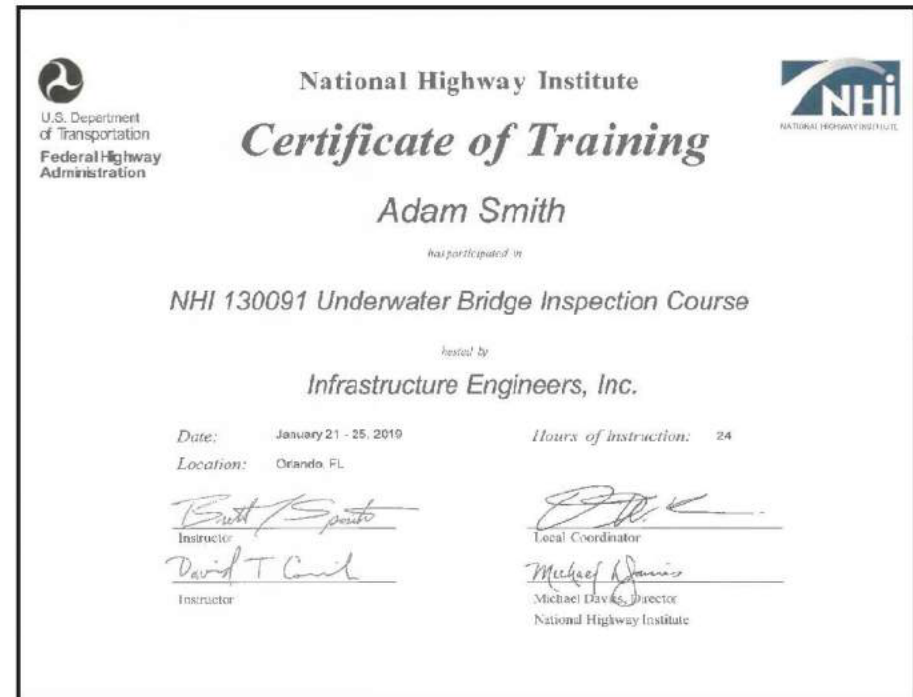
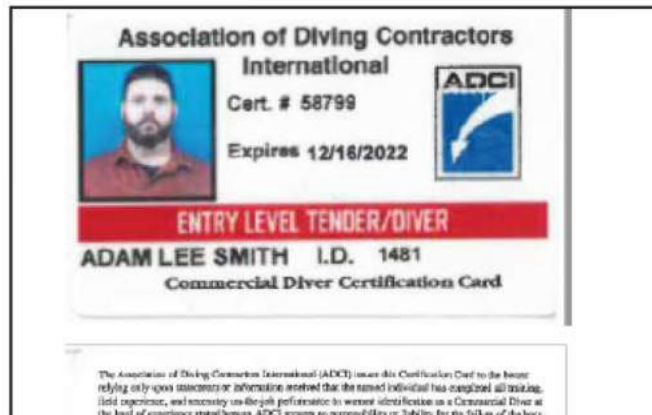
0420_DES
Rev. 12/19/2013
pmealy

Greyson McDonald

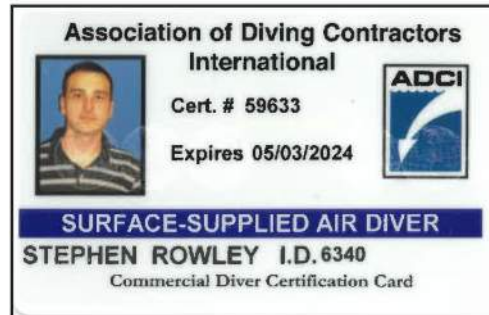


FHWA-approved equivalent to NHI 130055, Safety Inspection of In-service Bridges

Adam Smith



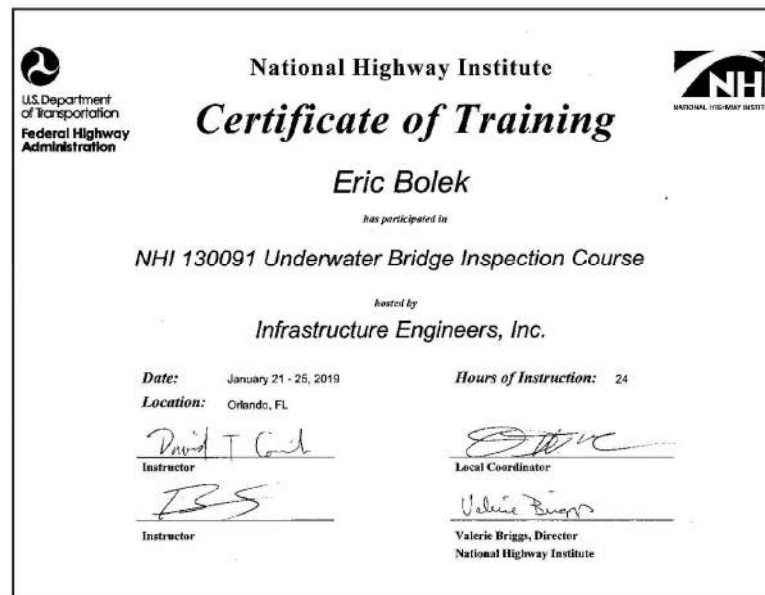
Stephen Rowley



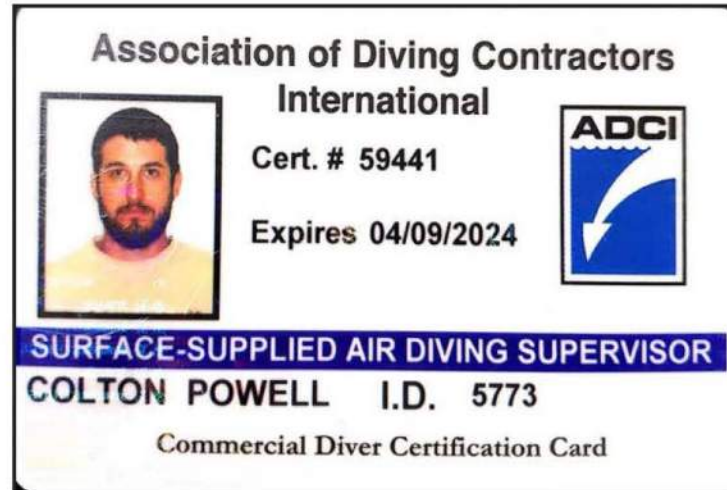
Jayce Cook



Eric Bolek



Colton Powell





U.S. Department
of Transportation
Federal Highway
Administration

National Highway Institute

Certificate of Training



Colton O. Powell

has participated in

FHWA-NHI-130091: Underwater Bridge Inspection

hosted by

Kansas Department of Transportation


Date: *June 15-18, 2015*

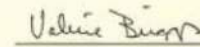
Hours of Instruction: **24**

Location: *Topeka, Kansas*


Instructor *Maria A. Batic*


Local Coordinator


Instructor *Brian D. Lister*


Valerie Briggs, Director
National Highway Institute

Jordan Ramirez





National Highway Institute



Certificate of Training

Jordan Ramirez

has participated in

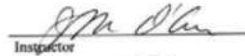
FHWA-NHI-130091 Underwater Bridge Inspection

hosted by

Florida Department of Transportation

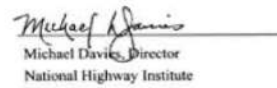
Date: July 29-August 01, 2019
Location: Miramar, FL

Hours of Instruction: 24

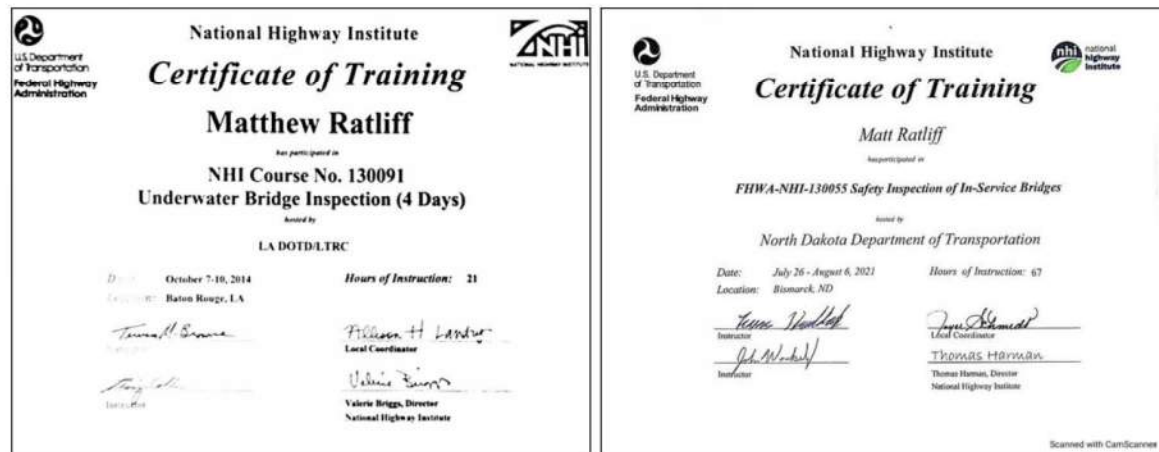
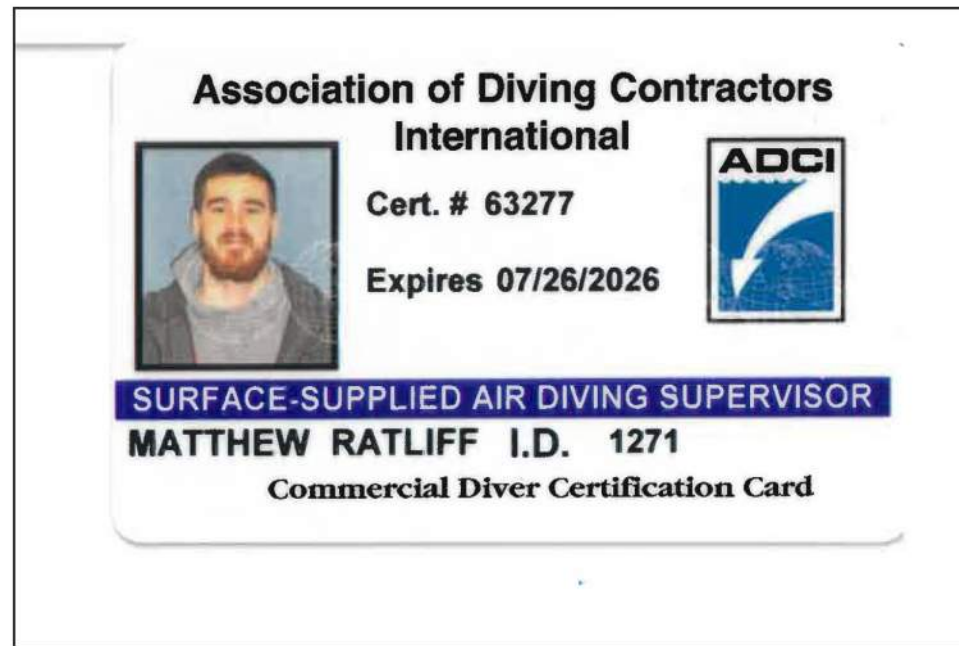

Instructor


Instructor


Local Coordinator


Michael Davies, Director
National Highway Institute

Matthew Ratliff



Wesley Trescott



Arthur LeForge



KTA Staff Certifications/Licenses

James Kretzler



**The American Society for Nondestructive Testing, Inc.
International Service Center**

1711 Arlinggate Lane, Columbus, Ohio 43228-0518
(614) 274-6000 | (800) 222-2708
fax (614) 274-6029 | asnt.org

September 3, 2020

Mr James A Kretzler
KTA Tator Inc
115 Technology DR
Pittsburgh, PA 15275-1005

ASNT ID# 186946

Dear Mr James A Kretzler:

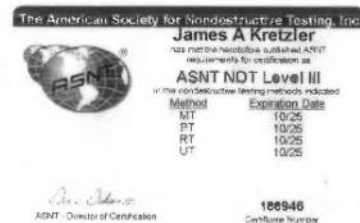
This letter is to inform you that you have successfully completed the requirements as set forth in the 'Renewal of NDT Level III Certificates Issued by ASNT'.

Please find attached your revised NDT Level III certification documentation, which consists of a wallet card, and new certificate. Review these materials for correctness, and contact me if you feel any are incorrect.

Your continued support of ASNT's NDT level III Certification Program is greatly appreciated.

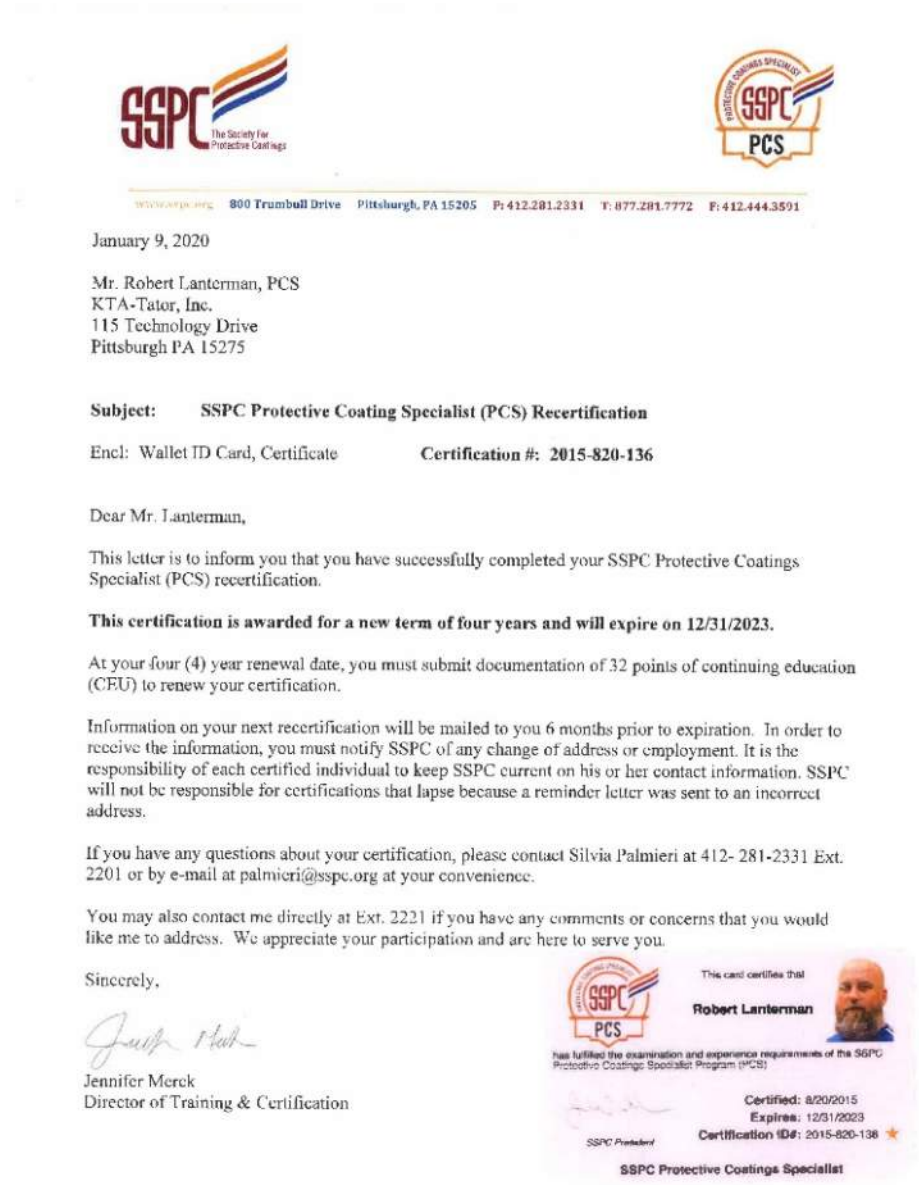
Sincerely,

The Certification Department,
The American Society for Nondestructive Testing, Inc.



ASNT...Creating a Safer World!

Robert Lanterman





April 22, 2019

Robert Lanterman
KTA-Tator Inc
115 Technology Dr.
Pittsburgh, PA 15275-1005

Your New Certification Card

Thank you for renewing your NACE International Institute certification. You are part of an elite group of certified professionals dedicated to protecting people, assets, and the environment from the effects of corrosion.

It is with great pleasure that we enclose your new NACE International Institute certification card. This important card includes your certification number and expiration date. If you ordered an embosser, plaque, or an update tag, it will be shipped separately. Please note that certification cards have recently been updated to better align with NACE branding. If you have any questions or need additional information regarding your certification, please call the First Service Department at 1-800-797-6223 (U.S. & Canada) or +1-281-228-6223 (Worldwide). Alternatively, you can e-mail us at FirstService@nace.org.

Thank you for choosing The NACE International Institute as your trusted source for corrosion information and expertise.



Linfield Staff Certifications/Licenses




Nathan Junius



Daniel Bindewald



Paul Morales

| | | |
|--|--|---|
|  <p>PROOF OF TRAINING THIS CERTIFICATE HEREBY RECOGNIZES THAT</p> <p>Paul H Morales, IV has attended Traffic Control Supervisor-LA State Specific Training Course</p> <p>5/5/2021 to 5/7/2025 Training Valid Through</p> <p>Metairie, LA Location</p> <p><i>James T. Walker</i> Director of Training President, CEO</p> <p><small>ATSSA provides training and certification but neither guarantees employment by ATSSA.</small></p>  <p><small>American Traffic Safety Services Association ATSSA.com</small></p> |  <p>PROOF OF TRAINING THIS CERTIFICATE HEREBY RECOGNIZES THAT</p> <p>Paul H Morales, IV has attended Traffic Control Technician-LA State Specific Training Course</p> <p>5/5/2021 to 5/5/2025 Training Valid Through</p> <p>Metairie, LA Location</p> <p><i>James T. Walker</i> Director of Training President, CEO</p> <p><small>ATSSA provides training and certification but neither guarantees employment by ATSSA.</small></p>  <p><small>American Traffic Safety Services Association ATSSA.com</small></p> |  <p>AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION</p> <p><i>This is to affirm that</i> Paul Morales, IV <i>has satisfied the requirements to be designated as a</i> CERTIFIED FLAGGER</p> <p>Expiration Date 5/3/2025 State Issued in LA</p> <p><i>James T. Walker</i> Instructor Signature</p> <p><small>Verification available by calling 1-877-692-4637 or at http://www.flagger.com</small></p> |
|--|--|---|

21. QA/QC Plan and/or Work Plan:

If the advertisement requires submission of a QA/QC plan or Work plan, include them here. Otherwise, leave this section blank.

NA

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 (as registered with Louisiana's Secretary of State) | Address | Point of Contact and email address | Phone Number |
|--|---|---|--|
| CONSOR Engineers, LLC | 15310 Park Row Houston, TX 77084 | Jeff Rowe / jrowe@consoreng.com | 281- 493-4140 |
| Linfield, Hunter & Junius, Inc. | 3608 18 th Street Metairie, LA 70002 | Nathan Junius, P.E., P.L.S. / njunius@lhjunius.com | 504-833-5300 |
| ELOS Environmental, LLC | 607 W. Morris Avenue Hammond, LA 70403 | Lucas Watkins / lwatkins@elosenv.com | 985-662-5501 |
| Terracon | 2822 O'Neal Lane, Building B Baton Rouge, LA 70816 | Lynne Roussel, P.E. Lynne.Roussel@terracon.com | 225-344-6053 225-239-2632 |
| Stanley Consultants, Inc. | 721 Government St STE 302 Baton Rouge, LA 70802 | Ed Wedge / wedgeedward@stanleygroup.com | 225-387-2422 |
| ECM Consultants, Inc. | 1301 Clearview Pkwy Suite 200 Metairie, LA 70001 | Kazem Alikhani / kazem@ecmconsultants.com | 504-885-4080 |
| KTA-Tator, Inc. | 145 Enterprise Drive Pittsburgh, PA 15275 | Robert S. Lanterman / rlanterman@kta.com | 412-722-0745 (office) 412-303-9407 (cell) |

23. Location:

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

NA