



## IDIQ Contract for Statewide Underwater Bridge Inspections

Louisiana Department of Transportation & Development  
Contract Number: 4400029206 & 4400029207

June 13, 2024





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P1-24-088L01

Louisiana Department of Transportation and Development  
Attn: Consultant Contracts Services Administrator  
1201 Capitol Access Road, Room 405-E  
Baton Rouge, LA 70802-4438

Re: Requests for Statements of Qualifications  
Contract Nos. 4400029206 and 4400029207 | IDIQ Contract for Statewide Underwater Bridge Inspection

Dear Consultant Contracts Services Administrator,

Marine Solutions, Inc., operating as Marine Solutions, Inc. of Kentucky in the state of Louisiana (Marine Solutions), is pleased to submit our qualifications for the IDIQ Contract for Statewide Underwater Bridge Inspections, as advertised by the Louisiana Department of Transportation and Development (DOTD).

The sole focus of Marine Solutions is the inspection, assessment, maintenance, and repair of bridge and waterfront infrastructure. This provides industry-leading expertise, capabilities, and capacity in the specific requirements of this contract with the attention and responsiveness of a truly dedicated firm. We are proud to be the leading bridge consultant providing significant benefits to other state and federal agencies, and we are now excited to offer the Marine Solutions difference to the DOTD.

- **Less work required by the DOTD** by providing customer-focused professional and motivated staff that are encouraged to go above and beyond to achieve the highest customer satisfaction.
- **Assistance with bridge program development** from our Project Manager, John Loftus, PE, who has 21 years of underwater bridge inspection experience, is a leader in the development of underwater imaging technology and has been incorporating the new Specifications for National Bridge Inventory for other DOT's.
- **Cost-effective risk reduction** by a commercial diving company that knows how to effectively apply the latest safety regulations and requirements. Marine Solutions is active in the development and application of today's standards. Our Senior Vice President, Don Wilkins, is the current President of the Association of Diving Contractors International (ADCI).
- **A fresh set of eyes on your important infrastructure** from experts that have experience with DOT's and federal agencies nationally.

Our team is well-versed in the requirements of bridge inspections in Louisiana through other inspection contracts in the state, and we have been studying the DOTD Bridge Inspection program. We are pleased to partner with Volkert, Inc., a local firm with staff that has extensive knowledge of DOTD. Steven Armstrong, PE, will serve as an Assistant Project Manager and will be dedicated to seamlessly integrating our team into the DOTD program.

Additionally, our team includes highly qualified personnel myself, Sean Chapman, PE, as Principal-in-Charge, and Bradley Syler, PE, SE, as Quality Assurance/Quality Control Manager, ensuring top-tier project management and quality control. Our organizational structure is designed to provide robust support and expertise, providing dedicated underwater inspection teams led by experienced professionals.

We appreciate the opportunity and look forward to working with the DOTD on this project for years to come. If you have any questions or require additional information, please contact me at [schapman@msimarinolutions.com](mailto:schapman@msimarinolutions.com) or (859) 608-1716.

Sincerely,  
**Marine Solutions**

A handwritten signature in blue ink that reads "Sean P. Chapman".

Sean P. Chapman, PE  
Senior Vice President

**DOTD FORM: 24-102**

(Revised January 1, 2023)


**PROPOSAL TO PROVIDE CONSULTANT SERVICES**

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

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

1. Contract Name as shown in the advertisement	IDIQ Contract for Statewide Underwater Bridge Inspection
2. Contract Number(s) as shown in the advertisement	4400029206 and 4400029207
3. State Project Number(s), if shown in the advertisement	
4. Prime consultant name ( <b>name must match as registered with the Louisiana Secretary of State where such registration is required by law</b> )	Marine Solutions, Inc. of Kentucky
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.0007757
6. Prime consultant mailing address	225 Industry Parkway Nicholasville, Kentucky 40356
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	To be Established
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Sean P. Chapman, PE, Senior Vice President (859) 608-1716 <a href="mailto:schapman@msimarinesolutions.com">schapman@msimarinesolutions.com</a>
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Sean P. Chapman, PE, Secretary (859) 608-1716 <a href="mailto:schapman@msimarinesolutions.com">schapman@msimarinesolutions.com</a>

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

<p><b>10.</b> This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel, and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.</p>	 <u>Sean P. Chapman, PE</u> Signature above shall be the same person listed in Section 9:  <u>June 13, 2024</u> Date	
<p><b>11.</b> 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>	<p><u>Firm(s):</u> N/A</p>	<p><u>Firm(s)' %:</u> N/A</p>

**12. Past Performance Evaluation Discipline Table:**

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

The **only** 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 (please specify).

Past Performance Evaluation Discipline(s)	% of Overall Contract	Prime Marine Solutions	Firm B Volkert	Firm C	Firm D	Firm E	Each Discipline must total to 100%
<b>Bridge</b>	<b>90%</b>	<b>85%</b>	<b>15%</b>				<b>100%</b>
<b>CPM</b>	<b>5%</b>	<b>100%</b>	<b>0%</b>				<b>100%</b>
<b>Survey</b>	<b>5%</b>	<b>50%</b>	<b>50%</b>				<b>100%</b>
Identify the percentage of work for the <b>overall contract</b> to be performed by the prime consultant and each sub-consultant.							
Percent of Contract	<b>100%</b>	<b>84%</b>	<b>16%</b>				

**13. Firm Size:**

For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify “Other (please specify)” and include the classification title inside the parentheses.

The DOTD Job Classification(s) to be used can be found at the following link:

[http://www.sp.dotd.la.gov/Inside\\_LaDOTD/Divisions/Engineering/CCS/Job\\_Qualification/Job%20Classifications%20with%20Descriptions.pdf](http://www.sp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/Job_Qualification/Job%20Classifications%20with%20Descriptions.pdf)

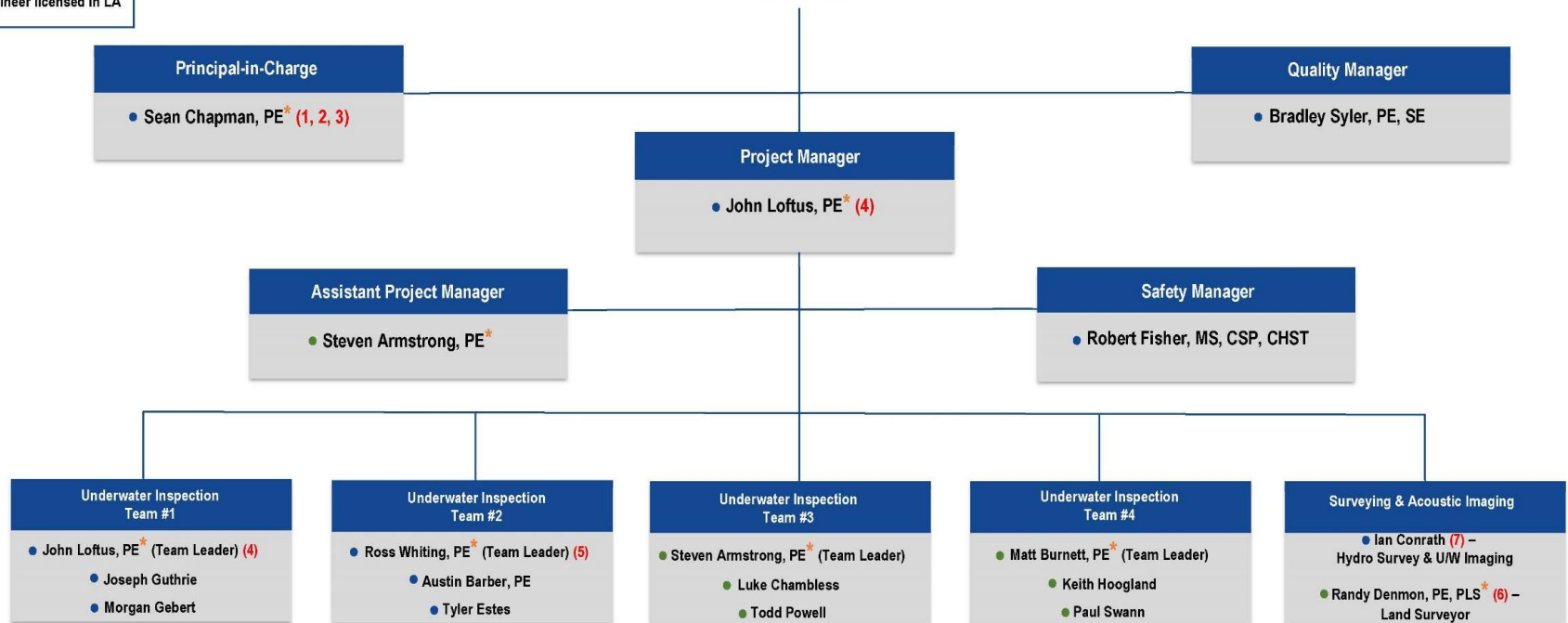
Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
Marine Solutions	Principal	2	6
Marine Solutions	Administrative	1	10
Marine Solutions	CADD Drafter		5
Marine Solutions	Engineer	5	49
Marine Solutions	Engineer Intern		7
Marine Solutions	Inspector	2	69
Volkert	Principal	1	60
Volkert	Engineer	3	262
Volkert	Engineer Intern	2	88
Volkert	Inspector	6	12
Volkert	Surveyor	1	51

(Add rows as needed)

14. Organizational Chart:



- Marine Solutions Personnel
- Volkert Personnel
- \* Professional Engineer licensed in LA



**15. Minimum Personnel Requirements:**

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR. Make sure the P.E. discipline is also listed (highlighted in table) that is meeting the MPR, e.g., professional civil engineer should show the discipline of the license as civil if meeting that MPR.

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	Sean P. Chapman, PE	Marine Solutions	PE # 0048753 - Civil	Louisiana	09/30/2024
2	Sean P. Chapman, PE	Marine Solutions	PE # 0048753 - Civil	Louisiana	09/30/2024
3	Sean P. Chapman, PE	Marine Solutions	PE # 0048753 - Civil Certified Bridge Inspector FHWA-NHI-130053 FHWA-NHI-130055 FHWA-NHI-130078 FHWA-NHI-130091 ADCI # 8089, Supervisor	Louisiana	09/30/2024      02/24/2025
4	John Loftus, PE	Marine Solutions	PE # 0049019 – Civil Certified Bridge Inspector FHWA-NHI-130053 FHWA-NHI-130055 FHWA-NHI-130078 FHWA-NHI-130087 FHWA-NHI-130091 FHWA-NHI-135047 FHWA-NHI-135086 FHWA-NHI-135087 ADCI # 1765, Supervisor	Louisiana	09/30/2024          12/12/2026
5	Jereme Ross Whiting, PE	Marine Solutions	PE # 0049014 - Civil Certified Bridge Inspector FHWA-NHI-130053 FHWA-NHI-130055 FHWA-NHI-130078 FHWA-NHI-130091 ADCI # 60158, Supervisor	Louisiana	09/30/2024      08/19/2024



6	Randy Denmon, PE, PLS	Volkert, Inc.	PLS # 0004798 PE # 0029390 – Civil	Louisiana	03/31/2025
7	Ian Conrath	Marine Solutions	Certified Bridge Inspector FHWA-NHI-130055 FHWA-NHI-130091 ADCI # 55156, Supervisor		12/06/2026

(Add rows as needed)

**16. Staff Experience:**

Firm employed by Marine Solutions				
Name	<b>Sean P. Chapman, PE</b>		Years of relevant experience with this employer	17
Title	Principal-in-Charge		Years of relevant experience with other employer(s)	12
Degree(s) / Years / Specialization		B.S. Civil Engineering, University of Wisconsin, 1998 Commercial Diver, Santa Barbara Marine Tech Institute, 2004		
Active registration number / state / expiration date		PE # 0048753 / Louisiana / 09/30/2024		
Year registered	2024	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities		As the Principal-in-Charge of the Underwater Bridge Inspections, Sean oversees the entire project, ensuring that all aspects of inspection are completed in accordance with the contract requirements and industry standards. He manages the project team, including divers, engineers, and support staff, ensuring all work is performed safely and efficiently. Additionally, he is responsible for quality control and assurance, reviewing and approving all inspection reports to ensure they are accurate, complete, and meet the required standards. Sean also oversees all contract coordination with clients and stakeholders, ensuring compliance with National Bridge Inspection Standards (NBIS), AASHTO Manual for Bridge Evaluation, and applicable state and federal regulations.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract, <i>i.e.</i> , “designed drainage,” “designed girders,” “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/23 – 12/23	<b>2023 Statewide Underwater Bridge Inspection Services, Kentucky Transportation Cabinet (KYTC), Districts 5-8</b> <b>Role:</b> Principal-in-Charge <b>Responsibilities:</b> Sean was responsible for overseeing 53 underwater bridge inspections, including 11 National Bridge Inspection (NBI) bridge inspections and seven multibeam hydrographic surveys. The project aimed to assess the condition of bridge substructures and surrounding channels to ensure the safety and integrity of these critical infrastructure components. The scope included Level I, II, and III underwater inspections and channel soundings, as well as underwater imaging for bridges and culverts using advanced sonar equipment.			
01/23 – 12/23	<b>2023 Statewide Underwater Bridge Inspection, Tennessee Department of Transportation (TDOT)</b> <b>Role:</b> Principal-in-Charge <b>Responsibilities:</b> Sean was responsible for contract management, project oversight, value engineering, quality assurance, and managing a comprehensive underwater bridge inspection program. Services included Level I, II, and III underwater investigations and channel soundings on 36 bridges and collecting acoustic images on bridge piers in over 30 feet of water using Mesotech 2D scanning sonar equipment.			
2/23 – 10/23	<b>Bridge Inspection and Assessment, Naval Facilities Engineering Command, Southeast Region, US</b> <b>Role:</b> Principal-in-Charge <b>Responsibilities:</b> Sean oversaw the routine inspection of 31 highway and pedestrian bridges, including underwater inspections. He ensured that all inspections were performed in accordance with National Bridge Inspection Standards (NBIS), Federal Highway Administration (FHWA), and client regulations.			

03/24 – 05/24	<p><b>Structures Inspection Program and Miscellaneous Engineering Services, Maryland Transportation Authority (MDTA)</b>  <b>Role:</b> Principal-in-Charge <b>Responsibilities:</b> Sean led a multidisciplinary team of engineers, inspectors, divers, and technicians, ensuring that all services met MDTA's standards and guidelines. He managed the inspection and engineering services for the Francis Scott Key Bridge Collapse Emergency Response in Baltimore, MD.</p>
04/23 – 12/23	<p><b>2023 Routine Underwater Bridge Inspections, Norfolk Southern Railway Company, Midwest, and Gulf Divisions</b>  <b>Role:</b> Principal-in-Charge <b>Responsibilities:</b> Sean was responsible for the routine underwater inspection of 19 bridges located throughout Louisiana, Alabama, Kentucky, Illinois, and Missouri, as well as on-call services at four bridges in North Carolina, Virginia, and Kentucky. The project included Level I, II, and III underwater inspections, channel soundings, and underwater imaging using advanced sonar equipment. Sean ensured that all inspections were performed in accordance with National Bridge Inspection Standards (NBIS), Federal Highway Administration (FHWA), and client regulations.</p>
2018 – Ongoing	<p><b>Statewide Underwater Bridge Inspection, Virginia Department of Transportation (VDOT)</b>  <b>Role:</b> Principal-in-Charge <b>Responsibilities:</b> Sean has been overseeing NBIS underwater bridge inspections for VDOT continuously since 2018. He has provided inspections on over 150 bridges, including a wide variety of types, ages, and materials. The project included planning and precaution for diving in various weather conditions and waterways that were contaminated or contained hazardous debris. All inspections were performed in accordance with NBIS, AASHTO Manual for Bridge Evaluation, National Highway Institute Bridge Inspectors Reference Manual, and VDOT bridge inspection policies and procedures.</p>
2014 – Ongoing	<p><b>Statewide Underwater Bridge Inspection, Tennessee Department of Transportation (TDOT)</b>  <b>Role:</b> Principal-in-Charge <b>Responsibilities:</b> Sean has been overseeing NBIS underwater bridge inspections for TDOT continuously since 2014. Marine Solutions has provided inspections on over 300 bridges, including a wide variety of types, ages, and materials. The project included planning and precaution for diving in various weather conditions and waterways that were contaminated or contained hazardous debris. All inspections were performed in accordance with NBIS, AASHTO Manual for Bridge Evaluation, National Highway Institute Bridge Inspectors Reference Manual, and TDOT bridge inspection policies and procedures.</p>

Firm employed by Marine Solutions				
Name	Bradley Syler, PE, SE		Years of relevant experience with this employer	3
Title	Quality Assurance/Quality Control Manager		Years of relevant experience with other employer(s)	22
Degree(s) / Years / Specialization		B.S. Civil Engineering, University of Illinois at Chicago, 1996 Diver Certificate, Inland Comm Diver Training Center, 1999		
Active registration number / state / expiration date		PE # 062.054588, Illinois, 01/29/2001		
Year registered	2001	Discipline	Civil Engineer, Structural Engineer	
Contract role(s) / brief description of responsibilities		As the Quality Assurance/Quality Control (QA/QC) Manager for the underwater bridge inspection contract, Mr. Syler will ensure that all inspection and engineering services meet stringent standards and guidelines. Responsibilities include overseeing the quality of condition inspection reporting, design, non-destructive testing, load and laboratory testing, and instrumentation services. Brad reviews and approves all inspection reports to ensure they are accurate, complete, and meet the required standards. He manages the project team, including divers, engineers, and support staff, ensuring all work is performed safely and efficiently. Brad's commitment to quality control ensures that all project deliverables meet the highest standards of quality and adhere to the contract requirements.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract, <i>i.e.</i> , “designed drainage,” “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/23 – 12/23	<b>2023 Statewide Underwater Bridge Inspection Services, Kentucky Transportation Cabinet (KYTC)</b> <b>Role:</b> QA/QC Manager <b>Responsibilities:</b> Brad was responsible for ensuring the accuracy and consistency of project deliverables. This included overseeing 53 underwater bridge inspections, including 11 National Bridge Inspection (NBI) bridge inspections and seven multibeam hydrographic surveys. Throughout the project, Brad managed the project team, including divers, engineers, and support staff, ensuring all work was performed safely and efficiently. He reviewed and approved all inspection reports, identified, and mitigated potential risks or issues, and maintained open communication with the client and stakeholders. The project aimed to assess the condition of bridge substructures and surrounding channels to ensure the safety and integrity of these critical infrastructure components.			
01/23 – 12/23	<b>Statewide Underwater Bridge Inspection, Tennessee Department of Transportation (TDOT)</b> <b>Role:</b> QA/QC Manager <b>Responsibilities:</b> Brad was responsible for ensuring the accuracy and consistency of project deliverables on Level I, II, and III underwater investigations and channel soundings on 36 bridges. Throughout the project, he ensured that all inspections were performed in accordance with National Bridge Inspection Standards (NBIS), Federal Highway Administration (FHWA), and TDOT regulations. Brad ensured quality and adhered to established TDOT policies, procedures, standards, and guidelines in the preparation and review of all deliverables.			
03/24 – 05/24	<b>Structures Inspection Program and Miscellaneous Engineering Services, Maryland Transportation Authority (MDTA)</b> <b>Role:</b> QA/QC Manager <b>Responsibilities:</b> Brad played a pivotal role in ensuring the accuracy and consistency of project deliverables. Under this contract vehicle, Marine Solutions provided critical inspection and engineering services for the Francis Scott Key Bridge Collapse Recovery Efforts in Baltimore, MD. In this capacity, Brad was responsible for overseeing the quality			

	control process, ensuring that all project deliverables met the highest standards of quality and adhered to the contract requirements. This included reviewing and approving all inspection reports, ensuring they were accurate, complete, and met the required standards.
02/23 – 10/23	<p><b>Bridge Inspection and Assessment, Naval Facilities Engineering Command, Southeast Region, US</b></p> <p><b>Role:</b> QA/QC Manager <b>Responsibilities:</b> Brad was responsible for ensuring the accuracy and consistency of project deliverables. This included overseeing the routine inspection of 31 highway and pedestrian bridges, as well as underwater inspections. He reviewed and approved all inspection reports, identified, and mitigated potential risks or issues, and maintained open communication with the client and stakeholders. Throughout the project, Brad ensured that all inspections were performed in accordance with National Bridge Inspection Standards (NBIS), Federal Highway Administration (FHWA), and client regulations. He also ensured that all diving operations adhered to OSHA and ADCI guidelines for commercial dive operations.</p>
04/23/ - 12/23	<p><b>2023 Routine Underwater Bridge Inspections, Norfolk Southern Railway Company, Midwest, and Gulf Divisions</b></p> <p><b>Role:</b> QA/QC Manager <b>Responsibilities:</b> Brad was responsible for ensuring the accuracy and consistency of project deliverables. This included overseeing the routine underwater inspection of 19 bridges located throughout Louisiana, Alabama, Kentucky, Illinois, and Missouri, as well as on-call services at four bridges in North Carolina, Virginia, and Kentucky. Throughout the project, Brad managed the project team, including divers, engineers, and support staff, ensuring all work was performed safely and efficiently. He reviewed and approved all inspection reports, identified, and mitigated potential risks or issues, and maintained open communication with the client and stakeholders. The project aimed to assess the condition of bridge substructures and surrounding channels to ensure the safety and integrity of these critical infrastructure components.</p>

Firm employed by Marine Solutions				
Name	John Loftus, PE		Years of relevant experience with this employer	12
Title	Project Manager		Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization		B.S. Civil Engineering, Marquette University, Milwaukee, WI, 2003 Dive Certificate, Minnesota Commercial Diver Training Center, 2009		
Active registration number / state / expiration date		PE # 0049019, Louisiana, 09/30/2024		
Year registered	2024	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities		As the Project Manager, John is responsible for overseeing all aspects of project execution, including planning, scheduling, and resource allocation. He will ensure that the project is completed on time, within budget, and to the highest quality standards. John will coordinate with the LaDOTD, manage the project teams, and ensures compliance with safety protocols and regulatory requirements. He will also lead bridge inspections and perform advanced underwater imaging and hydrographic surveys.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract, <i>i.e.</i> , “designed drainage,” “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/23 – 12/23	<p><b>2023 Statewide Underwater Bridge Inspection Services, Kentucky Transportation Cabinet (KYTC)</b>  <b>Role:</b> Project Manager <b>Responsibilities:</b> John oversaw the successful execution of 53 underwater bridge inspections, including 11 National Bridge Inspection (NBI) bridge inspections and seven multibeam hydrographic surveys. He developed the scope of work, managed the overall project including scheduling, resource allocation, and budgeting, ensured safety management practices adhered to OSHA regulations and ADCI guidelines, implemented quality control measures, reviewed and approved all inspection reports, conducted regular quality assurance checks, maintained open communication with the client and stakeholders, and served as the primary contact for the client.</p>			
01/23 – 12/23	<p><b>2023 Statewide Underwater Bridge Inspection, Tennessee Department of Transportation (TDOT)</b>  <b>Role:</b> Project Manager <b>Responsibilities:</b> John ensured the accuracy and consistency of project deliverables on Level I, II, and III underwater investigations and channel soundings on 36 bridges. He developed the scope of work, managed the overall project including scheduling, resource allocation, and budgeting, ensured safety management practices adhered to OSHA regulations and ADCI guidelines, implemented quality control measures, reviewed and approved all inspection reports, conducted regular quality assurance checks, maintained open communication with the client and stakeholders, and served as the primary contact for the client, all while adhering to established TDOT policies, procedures, standards, and guidelines in the preparation and review of all deliverables.</p>			
03/24 – 05/24	<p><b>Structures Inspection Program and Miscellaneous Engineering Services, Maryland Transportation Authority (MDTA)</b>  <b>Role:</b> Project Manager <b>Responsibilities:</b> John successfully managed major projects by developing and implementing project plans, schedules, and budgets to ensure timely and cost-effective delivery. He coordinated and directed multi-disciplinary teams to ensure all inspection and engineering services met MDTA's stringent standards and guidelines, ensuring compliance with National Environmental Policy Act (NEPA) and Maryland Environmental Policy Act (MEPA) regulations.</p>			

02/23 – 10/23	<p><b>Bridge Inspection and Assessment, Naval Facilities Engineering Command, Southeast Region, US</b></p> <p><b>Role: Project Manager Responsibilities:</b> John ensured the accuracy and consistency of project deliverables by developing the scope of work, managing the overall project including scheduling, resource allocation, and budgeting, ensuring safety management practices adhered to OSHA regulations and ADCI guidelines, implemented quality control measures, reviewed and approved all inspection reports, conducted regular quality assurance checks, maintained open communication with the client and stakeholders, and served as the primary contact for the client, all while adhering to established policies, procedures, standards, and guidelines in the preparation and review of all deliverables.</p>
02/23 – 10/23	<p><b>2023 Routine Underwater Bridge Inspections, Norfolk Southern Railway Company, Midwest, and Gulf Divisions</b></p> <p><b>Role: Project Manager Responsibilities:</b> John ensured the accuracy and consistency of project deliverables by developing the scope of work, managing the overall project including scheduling, resource allocation, and budgeting, ensuring safety management practices adhered to OSHA regulations and ADCI guidelines, implemented quality control measures, reviewed and approved all inspection reports, conducted regular quality assurance checks, maintained open communication with the client and stakeholders, and served as the primary contact for the client, all while adhering to established policies, procedures, standards, and guidelines in the preparation and review of all deliverables.</p>

Firm employed by Marine Solutions				
Name	Ross Whiting, PE		Years of relevant experience with this employer	7
Title	Team Leader		Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization		B.S. Civil Engineering, Georgia Institute of Technology, 2011 Commercial Diver, Minnesota Commercial Diver Training Center, 2016		
Active registration number / state / expiration date		PE # 32859, Kentucky, 06/30/2026		
Year registered	2017	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities		Ross Whiting is a professional engineer diver, NBIS qualified inspection team leader, and ADCI-certified dive supervisor with over 12 years of experience in the inspection, assessment, hydrographic survey, and underwater acoustic imaging of bridge structures nationwide. As the Team Leader, Ross is responsible for leading the project team, including divers, engineers, and support staff, ensuring all work is performed safely and efficiently. He ensures that all inspections are performed in accordance with National Bridge Inspection Standards (NBIS), Federal Highway Administration (FHWA), and client regulations. Ross also ensures that all diving operations adhere to OSHA and ADCI guidelines for commercial dive operations. His leadership and technical expertise ensure that the project team works efficiently and effectively.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract, <i>i.e.</i> , “designed drainage,” “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/23 – 12/23	<b>2023 Statewide Underwater Bridge Inspection Services, Kentucky Transportation Cabinet (KYTC)</b> <b>Role:</b> Team Leader <b>Responsibilities:</b> Ross led the project team in performing 53 underwater bridge inspections, including 11 National Bridge Inspection (NBI) bridge inspections and seven multibeam hydrographic surveys. He ensured that all inspections were performed in accordance with NBIS, FHWA, and KYTC regulations. Ross managed the project team, including divers, engineers, and support staff, ensuring all work was performed safely and efficiently. He reviewed and approved all inspection reports, identified, and mitigated potential risks or issues, and maintained open communication with the client and stakeholders.			
01/23 – 12/23	<b>2023 Statewide Underwater Bridge Inspection, Tennessee Department of Transportation (TDOT)</b> <b>Role:</b> Team Leader <b>Responsibilities:</b> Ross led the project team in performing Level I, II, and III underwater investigations and channel soundings on 36 bridges. He ensured that all inspections were performed in accordance with NBIS, FHWA, and TDOT regulations. Ross managed the project team, including divers, engineers, and support staff, ensuring all work was performed safely and efficiently. He reviewed and approved all inspection reports, identified, and mitigated potential risks or issues, and maintained open communication with the client and stakeholders.			
03/24 – 05/24	<b>Structures Inspection Program and Miscellaneous Engineering Services, Maryland Transportation Authority (MDTA)</b> <b>Role:</b> Team Leader <b>Responsibilities:</b> Ross led a multidisciplinary team of engineers, inspectors, divers, and technicians, ensuring that all services met MDTA's standards and guidelines. He managed the inspection and engineering services for the Francis Scott Key Bridge Collapse Emergency Response in Baltimore, MD. Ross ensured that all inspections were performed in accordance with NBIS, FHWA, and MDTA regulations.			



02/23 – 10/23	<p><b>Bridge Inspection and Assessment, Naval Facilities Engineering Command, Southeast Region, US</b></p> <p><b>Role:</b> Team Leader <b>Responsibilities:</b> Ross led the project team in performing routine inspections of 31 highway and pedestrian bridges, including underwater inspections. He ensured that all inspections were performed in accordance with NBIS, FHWA, and client regulations. Ross managed the project team, including divers, engineers, and support staff, ensuring all work was performed safely and efficiently. He reviewed and approved all inspection reports, identified, and mitigated potential risks or issues, and maintained open communication with the client and stakeholders.</p>
04/23 – 12/23	<p><b>Underwater Bridge Inspections, Norfolk Southern Railway Company, Midwest, and Gulf Divisions</b></p> <p><b>Role:</b> Team Leader <b>Responsibilities:</b> Ross led the project team in performing routine underwater inspections of 19 bridges located throughout Louisiana, Alabama, Kentucky, Illinois, and Missouri, as well as on-call services at four bridges in North Carolina, Virginia, and Kentucky. He ensured that all inspections were performed in accordance with NBIS, FHWA, and client regulations. Ross managed the project team, including divers, engineers, and support staff, ensuring all work was performed safely and efficiently. He reviewed and approved all inspection reports, identified, and mitigated potential risks or issues, and maintained open communication with the client and stakeholders.</p>

Firm employed by Marine Solutions				
Name	Ian Conrath		Years of relevant experience with this employer	10
Title	Senior Dive Supervisor		Years of relevant experience with other employer(s)	5
Degree(s) / Years / Specialization		Commercial Diver, Divers Institute of Technology, 2006		
Active registration number / state / expiration date		ADCI # 55156 Surface-Supplied Air Diver / 12/06/2026 Commercial Diver: Divers Institute of Technology, 2006		
Year registered	2016	Discipline	Commercial Diver	
Contract role(s) / brief description of responsibilities		Ian Conrath is a senior dive supervisor with over 15 years of experience in underwater bridge inspections, hydrographic surveys, and underwater acoustic imaging. Ian is responsible for performing diving inspections, hydrographic surveys, and underwater acoustic imaging. Ian's experience in challenging underwater environments, including those in Louisiana, ensures that inspections, surveys, and images will be performed effectively and safely.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract, <i>i.e.</i> , “designed drainage,” “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/23 – 12/23	<b>2023 Statewide Underwater Bridge Inspection Services, Kentucky Transportation Cabinet (KYTC)</b> <b>Role:</b> Senior Dive Supervisor <b>Responsibilities:</b> Ian supervised the diving operations for 53 underwater bridge inspections, including 11 National Bridge Inspection (NBI) bridge inspections and seven multibeam hydrographic surveys. He ensured that all diving operations adhered to OSHA and ADCI guidelines, managed dive teams, coordinated with project managers and team leaders, and ensured that all underwater inspections were performed safely and efficiently.			
01/23 – 12/23	<b>2023 Statewide Underwater Bridge Inspection, Tennessee Department of Transportation (TDOT)</b> <b>Role:</b> Senior Dive Supervisor <b>Responsibilities:</b> Ian supervised the diving operations for Level I, II, and III underwater investigations and channel soundings on 36 bridges. He ensured that all diving operations adhered to OSHA and ADCI guidelines, managed dive teams, coordinated with project managers and team leaders, and ensured that all underwater inspections were performed safely and efficiently.			
03/24 – 05/24	<b>Structures Inspection Program and Miscellaneous Engineering Services, Maryland Transportation Authority (MDTA)</b> <b>Role:</b> Senior Dive Supervisor <b>Responsibilities:</b> Ian supervised the diving operations for the inspection and engineering services for the Francis Scott Key Bridge Collapse Emergency Response in Baltimore, MD. He ensured that all diving operations adhered to OSHA and ADCI guidelines, managed dive teams, coordinated with project managers and team leaders, and ensured that all underwater inspections were performed safely and efficiently.			
02/23 – 10/23	<b>Bridge Inspection and Assessment, Naval Facilities Engineering Command, Southeast Region, US</b> <b>Role:</b> Senior Dive Supervisor <b>Responsibilities:</b> Ian supervised the diving operations for the routine inspection of 31 highway and pedestrian bridges, including underwater inspections. He ensured that all diving operations adhered to OSHA and ADCI guidelines, managed dive teams, coordinated with project managers and team leaders, and ensured that all underwater inspections were performed safely and efficiently.			

04/23 – 12/23	<p><b>2023 Routine Underwater Bridge Inspections, Norfolk Southern Railway Company, Midwest, and Gulf Divisions</b></p> <p><b>Role:</b> Senior Dive Supervisor <b>Responsibilities:</b> Ian supervised the diving operations for the routine underwater inspection of 19 bridges located throughout Louisiana, Alabama, Kentucky, Illinois, and Missouri, as well as on-call services at four bridges in North Carolina, Virginia, and Kentucky. He ensured that all diving operations adhered to OSHA and ADCI guidelines, managed dive teams, coordinated with project managers and team leaders, and ensured that all underwater inspections were performed safely and efficiently.</p>
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Firm employed by Marine Solutions				
Name	<b>Robert Fisher, CSP, CHST</b>		Years of relevant experience with this employer	7
Title	Safety Manager		Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization		M.S. Loss Prevention and Safety, Eastern Kentucky University, 2004 B.S. Industrial Safety and Risk Management, Eastern Kentucky University, 2002 B.S. Fire and Safety Engineering Technology, Eastern Kentucky University, 2002		
Active registration number / state / expiration date		CSP-31313/ Certified Safety Professional / 06//30/2026 CHST-C3219/Construction Health & Safety Technician / 06/30/26		
Year registered	2016	Discipline	Safety Management	
Contract role(s) / brief description of responsibilities		Robert Fisher is a seasoned safety manager with over 18 years of experience in safety management, particularly in underwater bridge inspections and marine construction environments. As the Safety Manager, Robert is responsible for developing and implementing safety protocols, conducting safety audits, and ensuring compliance with OSHA and ADCI guidelines. He oversees the safety of all diving operations, coordinates with project managers and team leaders, and ensures that all safety measures are strictly followed. Robert's experience in managing safety in challenging environments, including those in Louisiana, ensures that all operations are conducted safely and efficiently.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage,” “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/23 – 12/23	<b>2023 Statewide Underwater Bridge Inspection Services, Kentucky Transportation Cabinet (KYTC)</b> <b>Role:</b> Safety Manager <b>Responsibilities:</b> Robert developed and implemented safety protocols for 53 underwater bridge inspections, including 11 National Bridge Inspection (NBI) bridge inspections and seven multibeam hydrographic surveys. He conducted safety audits, ensured compliance with OSHA and ADCI guidelines, and coordinated with project managers and team leaders to ensure all operations were performed safely and efficiently.			
01/23 – 12/23	<b>2023 Statewide Underwater Bridge Inspection, Tennessee Department of Transportation (TDOT)</b> <b>Role:</b> Safety Manager <b>Responsibilities:</b> Robert developed and implemented safety protocols for Level I, II, and III underwater investigations and channel soundings on 36 bridges. He conducted safety audits, ensured compliance with OSHA and ADCI guidelines, and coordinated with project managers and team leaders to ensure all operations were performed safely and efficiently.			
03/24 – 05/24	<b>Structures Inspection Program and Miscellaneous Engineering Services, Maryland Transportation Authority (MDTA)</b> <b>Role:</b> Safety Manager <b>Responsibilities:</b> Robert developed and implemented safety protocols for the inspection and engineering services for the Francis Scott Key Bridge Collapse Emergency Response in Baltimore, MD. He conducted safety audits, ensured compliance with OSHA and ADCI guidelines, and coordinated with project managers and team leaders to ensure all operations were performed safely and efficiently.			
02/23 – 10/23	<b>Bridge Inspection and Assessment, Naval Facilities Engineering Command, Southeast Region, US</b> <b>Role:</b> Safety Manager <b>Responsibilities:</b> Robert developed and implemented safety protocols for the routine inspection of 31 highway and pedestrian bridges, including underwater inspections. He conducted safety audits, ensured compliance with OSHA			

	and ADCI guidelines, and coordinated with project managers and team leaders to ensure all operations were performed safely and efficiently.
04/23 – 12/23	<b>2023 Routine Underwater Bridge Inspections, Norfolk Southern Railway Company, Midwest, and Gulf Divisions</b> <b>Role:</b> Safety Manager <b>Responsibilities:</b> Robert developed and implemented safety protocols for the routine underwater inspection of 19 bridges located throughout Louisiana, Alabama, Kentucky, Illinois, and Missouri, as well as on-call services at four bridges in North Carolina, Virginia, and Kentucky. He conducted safety audits, ensured compliance with OSHA and ADCI guidelines, and coordinated with project managers and team leaders to ensure all operations were performed safely and efficiently.

Firm employed by	Volkert, Inc.		
Name	<b>Steven Armstrong, PE, CBI, ADCI</b>	Years of relevant experience with this employer	2
Title	Structural Inspection Engineer - Diver	Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization	B.S. / 2015 / Civil Engineering M.S. / 2021 / Civil Engineering		
Active registration number / state / expiration date	44405 / Louisiana / 9/30/2024		
Year registered	2020	Discipline	Civil
Contract role(s) / brief description of responsibilities	Mr. Armstrong has particular expertise in the structural inspection of submerged structures including bridges, wharves, weirs, rock dikes/jetties, concrete and timber foundations, floating bridges and ferry landings; and high-resolution acoustic imaging of underwater structures. <b>Mr. Armstrong will serve as a NBIS Team Leader and Inspector for this project.</b> Additionally, he will be the Volkert Project Manager responsible for communication with prime consultant.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage,” “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
10/21 – 02/22	<b>Louisiana Port of New Orleans (PONO) Harmony Street and 7th Street Wharf Inspection as part of the PONO Structural Inspection and Load Rating Contract, Louisiana.</b> Mr. Armstrong was the team leader for the inspection of the rail line adjacent to the wharf edge, including the substructure, superstructure, and rail condition rating per the AREMA guidelines. Volkert is tasked to review and analyze existing structural load ratings of the rail bridge and update the load rating if findings deem necessary.		
12/23 – 05/24	<b>Louisiana Port of New Orleans (PONO) First Street Wharf and Nashville Wharf B Railroad Bridge Inspection as part of the PONO Structural Inspection and Load Rating Contract, Louisiana.</b> Mr. Armstrong was the Project Manager and Team Leader for the inspection of the rail line adjacent to the wharf edge, including the substructure, superstructure, and rail condition rating per the AREMA guidelines. Volkert is tasked to review and analyze existing structural load ratings of the rail bridge and update the load rating if findings deem necessary.		
	<b>Alabama Department of Transportation (ALDOT), Design and Detail Bridge Widening Plans for Bridges over Intergraph Way on I-565.</b> Mr. Armstrong was part of a larger team tasked is designing and providing final plans for the widening of existing eastbound and westbound bridges on the I-565 corridor. Mr. Armstrong was responsible for the pre-stressed concrete girder design and microstation drawings for the four spans of each bridge.		
2014 – 2022 (Prior to Volkert)	<b>Louisiana Department of Transportation and Development (LaDOTD) Underwater Bridge Inspection Contract (2020–2025), Statewide.</b> NBIS Team Leader for the five-year retainer contract to perform underwater bridge inspections throughout Louisiana, including 100 percent visual inspections of submerged elements in accordance with National Bridge Inspection Standards (NBIS) requirements.		

	<p><b>Louisiana Department of Transportation and Development (LaDOTD) Underwater Bridge Inspection Contract (2017–2021), Statewide.</b> NBIS Team Leader for the five-year retainer contract to perform underwater bridge inspections throughout Louisiana, including 100 percent visual inspections of submerged elements in accordance with National Bridge Inspection Standards (NBIS) requirements.</p> <p><b>LADOTD Underwater Bridge Inspection Contract (2014-2019), Louisiana.</b> Member of the M&amp;N inspection team for the five-year retainer contract to perform underwater bridge inspections throughout Louisiana, including 100 percent visual inspections of submerged elements in accordance with NBIS requirements.</p>
	<p><b>Mississippi Department of Transportation (MDOT) Underwater Bridge Inspections, Statewide.</b> Engineer technician/team member for a three-year retainer contract for Level I, II, and III underwater inspections of 72 bridges in MDOT Districts 1 and 2 in accordance with Federal Highway Administration’s (FHWA) Bridge Inspector’s Reference Manual, American Association of State Highway and Transportation Officials’ (AASHTO) Manual for Bridge Evaluation, current NBIS requirements, and the MDOT Pontis Bridge Inspection Manual. Reviewed and evaluated critical structural conditions and communicated necessary actions of remedies. Responded within 24 hours to an emergency underwater bridge inspection request. Acoustic imaging techniques were utilized to identify structural deficiencies and determine the limits of scour.</p>
<p>2015 – 2022 (Prior to Volkert)</p>	<p><b>LADOTD Statewide Inventory and Inspection of Sign Trusses (2020-2025), Louisiana.</b> Project Manager and Team Leader for the five-year retainer contract to perform approximately 1,550 overhead sign truss inspections and rehabilitation designs throughout Louisiana. Ancillary inspections include steel and aluminum welds, high stress moment connections, and fracture critical elements in accordance with FHWA guidelines. The team performed Level III inspections with ultrasonic testing on bolted connections, mag particle testing on steel welded connections, and dye penetrant testing on aluminum-welded connections. Mr. Armstrong is also responsible for the general day-to-day project logistics. He performs quality assurance/quality control reviews on inspections reports.</p> <p><b>LADOTD Statewide Inventory and Inspection of Sign Trusses (2015-2020), Louisiana.</b> Assistant Project Manager and team leader performed approximately 1,400 overhead sign truss inspections and rehabilitation designs throughout Louisiana. Ancillary inspections include steel and aluminum welds, high stress moment connections, and fracture critical elements in accordance with FHWA guidelines. The team performed Level III inspections with ultrasonic testing on bolted connections, mag particle testing on steel welded connections, and dye penetrant testing on aluminum-welded connections. Performed quality assurance/quality control reviews on inspections reports.</p>

Firm employed by	Volkert, Inc.		
Name	<b>Matt Burnett, PE, CBI, CTI, ADCI</b>	Years of relevant experience with this employer	14
Title	Certified Bridge Inspector - Diver	Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization	BS, Civil Engineering, University of Alabama, 2009		
Active registration number / state / expiration date	45464 / Louisiana / 9/30/2025		
Year registered	2021	Discipline	Civil
Contract role(s) / brief description of responsibilities	Mr. Burnett joined Volkert's bridge inspection division in September 2010. He conducts topside and underwater bridge inspections, load ratings, scour evaluations for the development of the respective reports. He has served as a Team Leader and/or Dive Team Leader on major Volkert bridge inspection projects for State DOTs, local agencies, and federal clients nationwide. <b>Mr. Burnett will serve as a NBIS Team Leader and Inspector for this project.</b>		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage,” “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/20 – Ongoing	<b>Field Operations Manager/Dive Team Leader for Underwater Bridge Inspection Statewide for the Mississippi Department of Transportation.</b> Level I and Level II underwater inspections are being performed on steel, concrete, and timber substructure elements of bridges owned and maintained by MDOT. As Field Operations Manager, Mr. Burnett worked directly with the PM and QA Manager to schedule the inspections to ensure that the necessary resources were available to perform these inspections. In the field, Mr. Burnett performed and supervised the proper inspection of each underwater element and ensured that all of the field data collected was clear and concise.		
05/15 – 12/20	<b>Field Operations Manager/Dive Team Leader for Underwater Bridge Inspections throughout Mississippi for the Office of State Aid Road Construction.</b> OSARC contracted with Collins Engineers to provide BRIM Level I and level II underwater bridge inspections for selected bridges located throughout Mississippi. The inspections extend from the mudline of all underwater bridge substructures and foundation elements. Mr. Burnett worked directly with the PM and QA Manager to plan the logistics of the inspections to ensure that the necessary resources were available to perform these inspections. In the field, Mr. Burnett performed and supervised the proper inspection of each underwater element and ensured that all of the field data collected was clear and concise.		
2015 - Ongoing	<b>Field Operations Manager/Dive Team Leader for Underwater Bridge Inspections throughout Tennessee for the Tennessee Department of Transportation (TDOT).</b> As part of the Bridge Maintenance and Repair On-Call Contract with the Tennessee Department of Transportation, Volkert has been issued two work orders to provide underwater inspection services for both on- and off-system bridges throughout Tennessee. A total of 87 bridges were inspected by the team of Volkert (78 bridges) and Collins Engineers (9 bridges including 2D acoustical imaging). Volkert's in-house certified divers performed visual and tactile inspections of all underwater surfaces of the piers. As with our other underwater inspection contracts, Mr. Burnett worked directly with the PM and QA Manager to adopt the QA Plan and to		



	<p>schedule the resources necessary to perform the inspections expeditiously and safely. In the field, Mr. Burnett performed and supervised the proper inspection of each underwater element and ensured that all of the field data collected was clear and concise.</p>
2010 - Ongoing	<p><b>Team Leader/Underwater Inspector/Load Rating Engineer/Assistant Project Manager for Nationwide Bridge Inspection Services for the Eastern Federal Lands Highway Division of the Federal Highway Administration (EFLHD).</b> Volkert has been selected for three consecutive cycles, beginning in 2005, by the EFLHD to provide NBIS and element level inspections for National Park Service (NPS) structures and other federal agencies. For each task order, Volkert is responsible for providing routine, interim, or initial inspections of structures including culverts, tunnels, retaining walls, and bridges comprised of concrete, masonry, timber, and steel – including the fracture critical and fatigue prone details. Mr. Burnett has served as team leader for 461 inspections to date and has served as an underwater team leader for numerous underwater inspections. Mr. Burnett also serves as the QA Manager for all load ratings performed under these task orders.</p>
2010 - 2018	<p><b>Team Leader/Dive Team Leader/Load Rating Engineer for Local Government Bridge Inspections for the Florida Department of Transportation, District 3.</b> This local government bridge inspection project included bridge inspection services of approximately 450 locally owned bridges in District 3 including county and city-owned bridges in the Florida panhandle. Volkert was responsible for identifying all deficiencies as well as determining and recording the structural condition of each bridge based on element level condition criteria. Mr. Burnett worked on this contract from 2010-2018, where he led numerous underwater inspections. Working with the PM and QA Manger, Mr. Burnett was the first line of quality while in the field ensuring that field notes were clear and concise, and that any photographs and/or sketches properly illustrated the conditions in the field.</p>

Firm employed by	Volkert, Inc.			
Name	<b>Randy Denmon, PE, PLS</b>		Years of relevant experience with this employer	28
Title	Surveyor		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		B.S. Mathematics, Louisiana Tech University, 1992 M.S. Civil Engineering, Louisiana State University, 1996		
Active registration number / state / expiration date		PLS.0004798, LA, 3/31/2025 PE.0029390, LA, 3/31/2025		
Year registered	1996 2001	Discipline	Surveyor Civil Engineer	
Contract role(s) / brief description of responsibilities		<b>Mr. Denmon will serve as Surveyor on this contract.</b>		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage,” “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).			
07/22-1/23	<b>IDIQ Contract for Design of Safety Projects, Statewide with Majority Of Work In Districts 04, 05 And 58, LADOTD, Contract No. 4400019871.</b> Sub to Gresham Smith for Topographic and Right of Way Surveys. One Task Order Complete. Surveyor in charge of all survey work.			
12/21-1/23	<b>IDIQ Contract for Louisiana Watershed Initiative (LWI) Modeling Contract, Region 3, LADOTD, State Contract No. 4400017069.</b> Sub to Wood for topographic surveying on streams and bridges. Four Task Orders for \$1,426,244. Surveyor in charge of all survey work.			
04/08-1/23	<b>Kansas Lane Connector, LADOTD.</b> Engineer of record for all design work to include geometric design, drainage, and final plans for approximately 3 miles of new urban 4 and 5 lane roadway. Const. Cost Estimate: \$43,000,000			
1/17-9/21	<b>Contract No. 4400005894 Retainer Contract for Safe Routes to Schools (SRTS) and Local Road Safety Program (LRSP), LADOTD.</b> Complete topographic and right of way surveys for six projects. Surveyor in charge of all survey work.			
1/00-04/08	<b>SPN 700-64-0102; FAP No. STP-591-1(008); Jct. US 84 - Jct. LA 126; Route LA 34; Winn Parish, LADOTD, Design, and Topographic and R-O-W surveys for the relocation and reconstruction of approximately 11 miles of rural state HWY 34.</b> Engineer and surveyor on the project.			
3/09-4/11	<b>SPN 742-37-0019, ARR 3709(504), LADOTD, Oliver Road Widening.</b> Widening and reconstruction of 1 mile of urban road from 2 land to 3 lanes. Engineer of record and surveyor in charge of topographic and right of way surveying.			

**16. Staff Experience:**

Firm employed by Marine Solutions				
Name	Austin Barber, PE		Years of relevant experience with this employer	3
Title	Professional Engineer Diver		Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization		B.S. Civil Engineering, Georgia Institute of Technology, 2013 Diving Certificate, Commercial Diving Academy Technical Institute, 2016		
Active registration number / state / expiration date		PE # 91549 / Florida / 02/28/2025 Surface-Supplied Air Diver, ADCI # 66327 / 07/13/2028		
Year registered	2021	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Austin Barber is a registered professional engineer and ADCI-certified surface-supplied air diver specializing in the inspection, assessment, and rehabilitation of marine structures such as piers, wharves, bulkheads, bridges, culverts, locks and dams, and mooring cells. He performs underwater inspections, assisting with field operations, recording field notes, and preparing reports. His projects have included the use of advanced techniques such as three-dimensional multibeam surveying, concrete core testing, and ultrasonic thickness readings.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/23 -12/23	<b>2023 Statewide Underwater Bridge Inspection Services, Kentucky Transportation Cabinet (KYTC)</b> <b>Role:</b> Engineer Diver <b>Responsibilities:</b> Austin performed underwater bridge inspections, including 11 National Bridge Inspection (NBI) bridge inspections and seven multibeam hydrographic surveys. He ensured that all inspections were performed in accordance with NBIS, FHWA, and KYTC regulations. Austin managed the inspection team, ensuring all work was performed safely and efficiently.			
01/23 – 12/23	<b>2023 Statewide Underwater Bridge Inspection, Tennessee Department of Transportation (TDOT)</b> <b>Role:</b> Engineer Diver <b>Responsibilities:</b> Austin performed Level I, II, and III underwater investigations and channel soundings on 36 bridges. He ensured that all inspections were performed in accordance with NBIS, FHWA, and TDOT regulations. Austin managed the inspection team, ensuring all work was performed safely and efficiently.			
03/24 – 05/24	<b>Structures Inspection Program and Miscellaneous Engineering Services, Maryland Transportation Authority (MDTA)</b> <b>Role:</b> Engineer Diver <b>Responsibilities:</b> Austin performed underwater inspections for the Francis Scott Key Bridge Collapse Emergency Response in Baltimore, MD. He ensured that all inspections were performed in accordance with NBIS, FHWA, and MDTA regulations. Austin managed the inspection team, ensuring all work was performed safely and efficiently.			
02/23 – 10/23	<b>Bridge Inspection and Assessment, Naval Facilities Engineering Command, Southeast Region, US</b> <b>Role:</b> Engineer Diver <b>Responsibilities:</b> Austin performed routine underwater inspections of 31 highway and pedestrian bridges. He ensured that all inspections were performed in accordance with NBIS, FHWA, and client regulations. Austin managed the inspection team, ensuring all work was performed safely and efficiently.			

<p>04/23 – 12/23</p>	<p><b>2023 Routine Underwater Bridge Inspections, Norfolk Southern Railway Company, Midwest and Gulf Divisions</b> <b>Role:</b> Engineer Diver <b>Responsibilities:</b> Austin performed routine underwater inspections of 19 bridges located throughout Louisiana, Alabama, Kentucky, Illinois, and Missouri, as well as on-call services at four bridges in North Carolina, Virginia, and Kentucky. He ensured that all inspections were performed in accordance with NBIS, FHWA, and client regulations. Austin managed the inspection team, ensuring all work was performed safely and efficiently.</p>
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Firm employed by Marine Solutions				
Name	Tyler Estes		Years of relevant experience with this employer	5
Title	Senior Commercial Diver		Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization		Commercial Diver, Commercial Diving Academy 2012		
Active registration number / state / expiration date		Surface-Supplied Air Diving Supervisor, ADCI # 67215 / 02/19/2029		
Year registered	2012	Discipline	Commercial Diver	
Contract role(s) / brief description of responsibilities		Tyler Estes is an ADCI certified diver and Surface-Supplied Air Diving Supervisor with over 11 years of experience in underwater bridge inspections, hydrographic surveys, and underwater acoustic imaging. As the ADCI Certified Diver, Tyler performs underwater bridge inspections, including Level I, II, and III underwater investigations and channel soundings. He ensures that all inspections are performed in accordance with National Bridge Inspection Standards (NBIS), Federal Highway Administration (FHWA), and client regulations. Tyler's diving skills and technical expertise ensure that all inspections are performed safely and efficiently.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/23 -12/23	<b>2023 Statewide Underwater Bridge Inspection Services, Kentucky Transportation Cabinet (KYTC), Districts 5-8</b> <b>Role:</b> ADCI Certified Diver <b>Responsibilities:</b> Tyler performed underwater bridge inspections, including 11 National Bridge Inspection (NBI) bridge inspections and seven multibeam hydrographic surveys. He ensured that all inspections were performed in accordance with NBIS, FHWA, and KYTC regulations. The project aimed to assess the condition of bridge substructures and surrounding channels to ensure the safety and integrity of these critical infrastructure components. The scope included Level I, II, and III underwater inspections and channel soundings, as well as underwater imaging for bridges and culverts using advanced sonar equipment.			
01/23 – 12/23	<b>2023 Statewide Underwater Bridge Inspection, Tennessee Department of Transportation (TDOT)</b> <b>Role:</b> ADCI Certified Diver <b>Responsibilities:</b> Tyler performed Level I, II, and III underwater investigations and channel soundings on 36 bridges. He ensured that all inspections were performed in accordance with NBIS, FHWA, and TDOT regulations. The project included collecting acoustic images on bridge piers in over 30 feet of water using Mesotech 2D scanning sonar equipment. Tyler managed the inspection team, ensuring all work was performed safely and efficiently.			
03/24 – 05/24	<b>Structures Inspection Program and Miscellaneous Engineering Services, Maryland Transportation Authority (MDTA)</b> <b>Role:</b> ADCI Certified Diver <b>Responsibilities:</b> Tyler performed underwater inspections for the Francis Scott Key Bridge Collapse Emergency Response in Baltimore, MD. He ensured that all inspections were performed in accordance with NBIS, FHWA, and MDTA regulations. The project included hydrographic surveys and underwater imaging to assess the condition of bridge substructures. Tyler managed the inspection team, ensuring all work was performed safely and efficiently.			
02/23 – 10/23	<b>Bridge Inspection and Assessment, Naval Facilities Engineering Command, Southeast Region, US</b>			

	<p><b>Role:</b> ADCI Certified Diver <b>Responsibilities:</b> Tyler performed routine underwater inspections of 31 highway and pedestrian bridges. He ensured that all inspections were performed in accordance with NBIS, FHWA, and client regulations. The project included hydrographic surveys and underwater imaging to assess the condition of bridge substructures. Tyler managed the inspection team, ensuring all work was performed safely and efficiently.</p>
04/23 – 12/23	<p><b>2023 Routine Underwater Bridge Inspections, Norfolk Southern Railway Company, Midwest and Gulf Divisions</b>  <b>Role:</b> ADCI Certified Diver <b>Responsibilities:</b> Tyler performed routine underwater inspections of 19 bridges located throughout Louisiana, Alabama, Kentucky, Illinois, and Missouri, as well as on-call services at four bridges in North Carolina, Virginia, and Kentucky. He ensured that all inspections were performed in accordance with NBIS, FHWA, and client regulations. The project included Level I, II, and III underwater inspections, channel soundings, and underwater imaging using advanced sonar equipment. Tyler managed the inspection team, ensuring all work was performed safely and efficiently.</p>

Firm employed by Marine Solutions				
Name	Joseph Guthrie		Years of relevant experience with this employer	13
Title	Senior Project Engineer Diver		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		B.S. Civil Engineering, University of Kentucky, 2022 Commercial Diver, Minnesota Commercial Diver Training Center, 2009		
Active registration number / state / expiration date		Surface-Supplied Air Diving Supervisor, ADCI # 57096 / 01/19/2028		
Year registered	2009	Discipline	Commercial Diver	
Contract role(s) / brief description of responsibilities		Joseph Guthrie is an ADCI certified diver and Surface-Supplied Air Diving Supervisor with over 13 years of experience in underwater bridge inspections, hydrographic surveys, and underwater acoustic imaging. As the ADCI Certified Diver, Joseph performs underwater bridge inspections, including Level I, II, and III underwater investigations and channel soundings. He ensures that all inspections are performed in accordance with National Bridge Inspection Standards (NBIS), Federal Highway Administration (FHWA), and client regulations.		
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/23 -12/23	<b>2023 Statewide Underwater Bridge Inspection Services, Kentucky Transportation Cabinet (KYTC), Districts 5-8</b> <b>Role:</b> ADCI Certified Diver <b>Responsibilities:</b> Joseph performed underwater bridge inspections, including 11 National Bridge Inspection (NBI) bridge inspections and seven multibeam hydrographic surveys. He ensured that all inspections were performed in accordance with NBIS, FHWA, and KYTC regulations. The project aimed to assess the condition of bridge substructures and surrounding channels to ensure the safety and integrity of these critical infrastructure components. The scope included Level I, II, and III underwater inspections and channel soundings, as well as underwater imaging for bridges and culverts using advanced sonar equipment.			
01/23 – 12/23	<b>2023 Statewide Underwater Bridge Inspection, Tennessee Department of Transportation (TDOT)</b> <b>Role:</b> ADCI Certified Diver <b>Responsibilities:</b> Joseph performed Level I, II, and III underwater investigations and channel soundings on 36 bridges. He ensured that all inspections were performed in accordance with NBIS, FHWA, and TDOT regulations. The project included collecting acoustic images on bridge piers in over 30 feet of water using Mesotech 2D scanning sonar equipment.			
03/24 – 05/24	<b>Structures Inspection Program and Miscellaneous Engineering Services, Maryland Transportation Authority (MDTA)</b> <b>Role:</b> ADCI Certified Diver <b>Responsibilities:</b> Joseph performed underwater inspections for the Francis Scott Key Bridge Collapse Emergency Response in Baltimore, MD. He ensured that all inspections were performed in accordance with NBIS, FHWA, and MDTA regulations. The project included hydrographic surveys and underwater imaging to assess the condition of bridge substructures. Joseph managed the inspection team, ensuring all work was performed safely and efficiently.			
02/23 – 10/23	<b>Bridge Inspection and Assessment, Naval Facilities Engineering Command, Southeast Region, US</b> <b>Role:</b> ADCI Certified Diver <b>Responsibilities:</b> Joseph performed routine underwater inspections of 31 highway and pedestrian bridges. He ensured that all inspections were performed in accordance with NBIS, FHWA, and client regulations. The project included hydrographic surveys and underwater imaging to assess the condition of bridge substructures. Joseph managed the inspection team, ensuring all work was performed safely and efficiently.			

04/23 – 12/23	<p><b>2023 Routine Underwater Bridge Inspections, Norfolk Southern Railway Company, Midwest, and Gulf Divisions</b></p> <p><b>Role:</b> ADCI Certified Diver <b>Responsibilities:</b> Joseph performed routine underwater inspections of 19 bridges located throughout Louisiana, Alabama, Kentucky, Illinois, and Missouri, as well as on-call services at four bridges in North Carolina, Virginia, and Kentucky. He ensured that all inspections were performed in accordance with NBIS, FHWA, and client regulations. The project included Level I, II, and III underwater inspections, channel soundings, and underwater imaging using advanced sonar equipment.</p>
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Firm employed by Marine Solutions				
Name	<b>Morgan Gebert, EIT</b>		Years of relevant experience with this employer	3
Title	Senior Project Engineer Diver		Years of relevant experience with other employer(s)	3
Degree(s) / Years / Specialization		B.S. Civil Engineering, University of Kentucky, 2017 Commercial Diver, Minnesota Commercial Diver Training Center, 2020		
Active registration number / state / expiration date		Surface-Supplied Air Diver, ADCI # 64984 / 08/27/2027		
Year registered		Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities		Morgan Gebert is a civil engineer in training and ADCI-certified diver with a focus on the inspection, assessment, and rehabilitation of marine structures including piers, wharves, bulkheads, bridges, culverts, locks and dams, and mooring cells. Mr. Gebert has performed structural inspections of waterfront structures and has assisted in the design and planning of waterfront facility rehabilitation.		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
01/23 -12/23	<b>2023 Statewide Underwater Bridge Inspection Services, Kentucky Transportation Cabinet (KYTC)</b> <b>Role:</b> Engineer Diver <b>Responsibilities:</b> Morgan performed underwater bridge inspections, including 11 National Bridge Inspection (NBI) bridge inspections and seven multibeam hydrographic surveys. He ensured that all inspections were performed in accordance with NBIS, FHWA, and KYTC regulations. Morgan managed the inspection team, ensuring all work was performed safely and efficiently.			
01/23 – 12/23	<b>2023 Statewide Underwater Bridge Inspection, Tennessee Department of Transportation (TDOT)</b> <b>Role:</b> Engineer Diver <b>Responsibilities:</b> Morgan performed Level I, II, and III underwater investigations and channel soundings on 36 bridges. He ensured that all inspections were performed in accordance with NBIS, FHWA, and TDOT regulations. Morgan managed the inspection team, ensuring all work was performed safely and efficiently.			
03/24 – 05/24	<b>Structures Inspection Program and Miscellaneous Engineering Services, Maryland Transportation Authority (MDTA)</b> <b>Role:</b> Engineer Diver <b>Responsibilities:</b> Morgan performed underwater inspections for the Francis Scott Key Bridge Collapse Emergency Response in Baltimore, MD. He ensured that all inspections were performed in accordance with NBIS, FHWA, and MDTA regulations. Morgan managed the inspection team, ensuring all work was performed safely and efficiently.			
02/23 – 10/23	<b>Bridge Inspection and Assessment, Naval Facilities Engineering Command, Southeast Region, US</b> <b>Role:</b> Engineer Diver <b>Responsibilities:</b> Morgan performed routine underwater inspections of 31 highway and pedestrian bridges. He ensured that all inspections were performed in accordance with NBIS, FHWA, and client regulations. Morgan managed the inspection team, ensuring all work was performed safely and efficiently.			
04/23 – 12/23	<b>2023 Routine Underwater Bridge Inspections, Norfolk Southern Railway Company, Midwest and Gulf Divisions</b> <b>Role:</b> Engineer Diver <b>Responsibilities:</b> Morgan performed routine underwater inspections of 19 bridges located throughout Louisiana, Alabama, Kentucky, Illinois, and Missouri, as well as on-call services at four bridges in North Carolina, Virginia, and Kentucky. He ensured that all inspections were performed in accordance with NBIS, FHWA, and client regulations. Morgan managed the inspection team, ensuring all work was performed safely and efficiently.			

Firm employed by		Volkert, Inc.	
Name	<b>Paul Swann, NCBI, NTIS</b>	Years of relevant experience with this employer	19
Title	Certified Bridge Inspector	Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Mr. Swann joined Volkert in 2004 as a member of the Bridge Inspection Department where he served as an assistant topside and underwater inspector. <b>He will serve as a NBIS Team Leader and Inspector for this project</b> and lead inspections which require challenging logistics and planning.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/20 - Ongoing	<b>Bridge/Underwater Inspector for Statewide Underwater Bridge Inspections for the Mississippi Department of Transportation.</b> Level I and Level II underwater inspections are being performed on steel, concrete, and timber substructure elements of bridges owned and maintained by MDOT. For concrete substructure elements, the location and severity of cracking, scaling, spalling, and exposed rebar was noted. For steel elements, any corrosion or section loss was detailed; and for timber piling or abutments any decay or deterioration caused by fungi, insects, or marine borers was expressed. Mr. Swann performed detailed underwater inspections with a three-person team, fulfilling the role of an underwater inspector, topside recorder and boat operator as needed. He assisted with the logistics for the trips. He was also part of the report processing in the office, performing QCs when needed.		
2005 - Ongoing	<b>Topside and Underwater Bridge Inspector for Nationwide Bridge Inspection Services for the Eastern Federal Lands Highway Division of the Federal Highway Administration.</b> Volkert has been selected for three consecutive cycles, beginning in 2005, by the EFLHD to provide NBIS and element level inspections for National Park Service (NPS) structures and other federal agencies. As a lead bridge inspector, Mr. Swann performed 948 topside and underwater inspections and assisted with the logistics for the trips. He was also part of the report processing in the office, performing QCs when needed.		
2005 - 2018	<b>Lead Bridge Inspector for Local Government Bridge Inspections for the Florida Department of Transportation, District 3.</b> This local government bridge inspection project included bridge inspection services of approximately 450 locally owned bridges in District 3 including county and city-owned bridges in the Florida.		
2004 - Ongoing	<b>Countywide Bridge Inspection Services for Mobile County, Alabama</b> Topside and Underwater Team Leader; Approximately 103 structures requiring topside and underwater inspections. In 2015, converted inspections to element level.		

Firm employed by		Volkert, Inc.	
Name	<b>Todd Powell, NBIS, NTIS</b>	Years of relevant experience with this employer	16
Title	Certified Inspector	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization			
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Mr. Powell has over 25 years of bridge inspection experience on nearly all bridge types. <b>He will serve as a NBIS Team Leader and Inspector for this project.</b>	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/20 - Ongoing	<b>Underwater Bridge Inspector for Statewide Underwater Bridge Inspections for the Mississippi Department of Transportation.</b> Level I and Level II underwater inspections are being performed on steel, concrete, and timber substructure elements of bridges owned and maintained by MDOT. Mr. Powell performed many of these inspections as the Underwater Team Leader. Once out of the water, he is always quick to review his notes taken by his Tender to verify that they illustrate what he described while underwater and return to the water to obtain more detail if necessary. Mr. Powell also worked closely with the PM and DPIC to keep the work environment safe.		
2008 - Ongoing	<b>Topside and Underwater Bridge Inspector for Nationwide Bridge Inspection Services for the Eastern Federal Lands Highway Division of the Federal Highway Administration.</b> Volkert has been selected for three consecutive cycles, beginning in 2005, by the EFLHD to provide NBIS and element level inspections for National Park Service (NPS) structures and other federal agencies. Mr. Powell has performed 711 topside and underwater bridge inspections at various sites from coast-to-coast, including Alaska.		
2015 - Ongoing	<b>Bridge Inspector for Underwater Bridge Inspections throughout Tennessee for the Tennessee Department of Transportation (TDOT).</b> Volkert has been issued two work orders to provide underwater inspection services for both on- and off-system bridges throughout Tennessee. Volkert’s in-house certified divers performed visual and tactile inspections of all underwater surfaces of the piers. To date, Mr. Powell has participated in all 78 of the underwater inspections performed by Volkert. He has served as the Underwater Team Leader and supported our other Team Leaders as the Dive Tender. Mr. Powell’s attention to the detail, his dive training, and skill underwater was a key part of Volkert’s success on these work orders.		

Firm employed by	Volkert, Inc.		
Name	<b>Keith Hoogland, ADCI, CBI</b>	Years of relevant experience with this employer	4
Title	Certified Bridge Inspector – Diver	Years of relevant experience with other employer(s)	36
Degree(s) / Years / Specialization			
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Keith Hoogland is a NBIS Team Leader, ADCI Commercial Diver, PADI Advanced Open Water Diver and Field Operations Manager with 38 years of experience conducting routine, special, accident/post rehabilitation and interim underwater bridge inspections on structures throughout Florida and Puerto Rico. His experience includes fixed, movables, culverts, dams, weirs, locks, and port docking facilities. <b>Keith will serve as an NBIS Team Leader and Inspector for this project.</b>	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
07/20 – 07/24	<b>Underwater Bridge Inspection, Sunshine Skyway Bridge, FDOT.</b> Keith was involved in the original building of the Sunshine Skyway Bridge performing CEI inspections throughout the build process. Since the opening of the structure, he served as Lead Inspector for the routine, special and emergency inspections. In addition, Keith currently is involved in all CEI inspections on the main structure and dolphins.		
02/22 – 12/22	<b>Buckman, Rodman Dams and Inglis Lock, Southwest Florida Water Management District (SWFWMD).</b> Keith served as Lead Underwater Inspector for the SWFWMD conducting routine inspections on all components of these structures, to include Gates, Guides, Lock Chambers, Slabs, Wingwalls, Barriers, End Sills, Floor Slabs, Manatee Racks/Protection Systems and Boat Barriers on both the upstream and downstream sides. As the Field Operations Manager, he was also responsible for all field/safety operations and tag-out procedures.		
Prior to Volkert	<b>State and Local Government Underwater Bridge Inspection and Construction Inspection, FDOT Districts 1, 2, 3, 4, 5, 7.</b> Keith currently serves as Senior Underwater Bridge Inspector and Field Operations Manager for Volkert on this project which includes both routine, interim, emergency, special and phased construction inspections. This contract requires the preparation of detailed reports and underwater photography documenting existing conditions for each structure. These inspections are based on the NBIS requirements and are in accordance with FDOT and FHWA guidelines. Both SSA (Surface Supplied Air) and scuba diving methods are used on these projects.		
Prior to Volkert	<b>Underwater Bridge Inspection, Puerto Rico DOT.</b> Keith played a key role performing the initial underwater inspections on aged structures and set the reporting standard for the Puerto Rico DOT. Keith served as Lead Underwater Inspector and Field Operations Manager on this project, responsible for the coordination of equipment and scheduling of the inspections working close with the Client. He was responsible for the detailed documentation of the conditions.		

Firm employed by	Volkert, Inc.		
Name	<b>Luke Chambless, ADCI</b>	Years of relevant experience with this employer	4
Title	Certified Inspector	Years of relevant experience with other employer(s)	4
Degree(s) / Years / Specialization			
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Mr. Chambless joined Volkert in 2020 with a diverse skillset in the diving industry as an underwater dive inspector. His experience includes the use of rigging equipment, operating jet pumps, welding equipment and associated maritime equipment. <b>Mr. Chambless will serve as an Assistant Inspector for this project.</b>	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/20 - Ongoing	<b>Statewide Underwater Bridge Inspection for the Mississippi Department of Transportation.</b> Level I and Level II underwater inspections are being performed on steel, concrete, and timber substructure elements of bridges owned and maintained by MDOT. Performed initial and routine underwater inspections of 33 culverts and bridges in Bolivar, Carroll, Holmes, Sunflower, Tallahatchie, Warren, and Yazoo Counties.		
2020 - Ongoing	<b>Assistant Bridge Inspector for Bridge Inspection and Related Services related to an IDIQ Master Contract for the Office of State Aid Road Construction (OSARC).</b> The project consists of performing NBIS inspections and load ratings on complex bridges in 11 Mississippi counties with various superstructure types which include fracture critical members and movable spans. For each bridge inspected, Volkert develops a bridge inspection plan which outlines access method and equipment required, traffic control requirements, inspection time, inspection personnel requirements, and railroad permit requirements including contact information and permit acquisition procedure.		
01/23 – 01/24	<b>Assistant Bridge Inspector for Regionwide Bridge Inspection Services for the Alabama Department of Transportation (ALDOT) Southwest Region.</b> The project will consist of routine bridge inspection services (topside and underwater) for 9 bridges in the region. These inspections required traffic control, and snooper and lift vehicles (in some cases). Volkert bridge inspection team obtained measurements of bridge components to conduct a bridge element analysis and entered all data in the BrM program as well as provided bridge inspection reports.		
2020 - Ongoing	<b>Assistant Bridge Inspector for Mobile County Bridge Inspection Program in Mobile, Alabama for the Mobile County Commission.</b> Volkert has been contracted consecutively dating back to 1994 by the Mobile County Engineering Department to perform bridge inspection services throughout the County including topside, underwater, under bridge inspection vehicle (UBIV) inspections, emergency inspections, and scour assessments.		

**17. Firm Experience:**

Firm name	Marine Solutions, Inc. of Kentucky		Past Performance Evaluation Discipline(s)*	CE&I/OV
Project name	<b>2023 Statewide Underwater Bridge Inspection Services</b>		Firm responsibility (prime or sub?)	Prime
Project number	0123008 / PON26252300001566	Owner's name	<b>Kentucky Transportation Cabinet</b>	
Project location	<b>District 5 – 8, Kentucky</b>	Owner's Project Manager	Erin VanZee, P.E.	
Owner's address, phone, email	200 Mero Street, Frankfort, KY 40622, 502-564-4890, <a href="mailto:erin.vanzee@ky.gov">erin.vanzee@ky.gov</a>			
Services commenced by this firm (mm/yy)	01/23	Total consultant contract cost (\$1,000's)	\$372	
Services completed by this firm (mm/yy)	12/23	Cost of consultant services provided by this firm (1,000's)	\$372	

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

- NBIS underwater bridge inspection
- Underwater acoustic imaging
- Soundings and surveys
- Bridge management system
- Electronic submittals
- NBE and MBE ratings
- New SNBI application
- Remote locations
- Varied access & diving modes
- Post event response

The project was performed under Marine Solutions statewide underwater bridge inspection contract. In 2022 Marine Solutions was ranked as the #1 most qualified consultant for selection of this contract and has performed over 100 underwater inspections including routine and post-event inspections, as well as diving inspections of bridge piers in water depths of over 150 feet.

In 2023, Marine Solutions performed routine NBIS underwater bridge inspections for 53 bridges located in District 5, 6, 7, and 8 in central Kentucky, including Level I, II, and III inspections, soundings and hydrographic surveys, and underwater imaging. The inspections were performed on bridges and culverts within urban and rural environments and large and small bodies of water. This required various access equipment and modes of diving to

provide the most safe and effective means of inspection. The inspections also included the above water portions of all substructure units (to the top of the unit/bearings). The inspection information was recorded on the DOT bridge inspection system and underwater inspection reports were provided. Additionally, the requirements of the new Specifications for the National Bridge Inventory were applied. Software requirements for services within the DOT bridge inspection system and digital delivery systems were also maintained. All inspections were performed within the required month due.



**Team Members:** Sean P. Chapman, PE, Brad Syler, PE, SE; John Loftus, PE, Ross Whiting, PE; Austin Barber, PE; Joseph Guthrie, Ian Conrath, Tyler Estes, and Morgan Gebert.

Firm name	Marine Solutions, Inc. of Kentucky	Past Performance Evaluation Discipline(s)*	CE&I/OV
Project name	<b>2023 Statewide Underwater Bridge Inspection Services</b>		Firm responsibility (prime or sub?)
Project number	0123091 / 99BVAR-F1-007	Owner's name	<b>Tennessee Department of Transportation</b>
Project location	<b>Statewide, Tennessee</b>	Owner's Project Manager	Steven Paulson, P.E.
Owner's address, phone, email	Suite 1200, James K. Polk Building, 505 Deaderick Street, Nashville, TN 37243, 615-741-4232, <a href="mailto:steven.paulson@tn.gov">steven.paulson@tn.gov</a>		
Services commenced by this firm (mm/yy)	01/23	Total consultant contract cost (\$1,000's)	\$104
Services completed by this firm (mm/yy)	12/23	Cost of consultant services provided by this firm (1,000's)	\$104

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



Marine Solutions has provided underwater bridge inspection services to TDOT for over 15 years. These services have included routine and post-event inspections incorporating Level I, II and III inspections, acoustic imaging, hydrographic surveying, and deep-water diving. This project was performed under an annual task order for underwater inspections.

Marine Solutions performed routine NBIS underwater bridge inspections for 36 bridges including Level I, II, and III inspections, soundings, hydrographic surveys, and underwater imaging. The inspections were performed throughout central Tennessee, requiring varying access and diving equipment and procedures. Notifications and access procedures for busy navigable waterways were employed as well as swift water practices for accessing bridge substructure units located in seasonal swift water streams were also utilized to safely and effectively perform the inspections within the required month.

- NBIS underwater bridge inspection
- Underwater acoustic imaging
- Soundings and surveys
- NBE and MBE ratings
- Remote locations
- Varied access & diving modes

- All inspections were performed within the required month due.
- All bridge data was entered and finalized prior to the required due date along with accompanying electronic reports.
- Quality control checks were utilized to efficiently verify field notes prior to data entry and report development.
- Unmanned aerial vehicles were utilized to aid in bridge and substructure photographs.
- Underwater imaging or hydrographic surveys were performed by the dive team, without separate mobilization.

**Team Members:** Sean P. Chapman, PE; Brad Syler, PE, SE; John Loftus, PE; Ross Whiting, PE; Austin Barber, PE; Joseph Guthrie, Ian Conrath, Tyler Estes, and Morgan Gebert.



Firm name	Marine Solutions, Inc. of Kentucky	Past Performance Evaluation Discipline(s)*	CE&I/OV
Project name	<b>FY23 Navy Bridge Inspection and Assessment Southeast Region</b>	Firm responsibility (prime or sub?)	Prime
Project number	0223017 / N3943020D2206 N3943023F4505	Owner's name	<b>Naval Facilities Engineering Command</b>
Project location	<b>Louisiana, Mississippi, Georgia, Florida</b>	Owner's Project Manager	Anne Marie Prieto, P.E.
Owner's address, phone, email	720 Kennon St. SE, Bldg. 36 Suite 333, Washington, DC 20374, 202-685-5324, <a href="mailto:anne.m.prieto.civ@us.navy.mil">anne.m.prieto.civ@us.navy.mil</a>		
Services commenced by this firm (mm/yy)	02/23	Total consultant contract cost (\$1,000's)	\$195
Services completed by this firm (mm/yy)	10/23	Cost of consultant services provided by this firm (1,000's)	\$195

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



Marine Solutions has been performing structural inspections and design engineering services for the U.S. Navy continuously since 2010. Marine Solutions currently serves as the sole consultant for the U.S. Navy's bridge inspection and maintenance on an exclusive contract for bridge inspection, assessment, design, and post-construction award services at all U.S. Navy and other Department of Defense installations worldwide. This contract includes above and below water inspections, non-redundant steel tension member inspections, investigations, scour assessments and analysis, load ratings, seismic analysis, and bridge repair design. Under this contract, Marine Solutions has performed over 250 bridge inspections across the continental United States and in Cuba, Spain, Japan, Guam, Bahrain, and South Korea.

Under this task order, Marine Solutions performed complete bridge inspections (above and below water) of 31 bridges located at naval bases in Louisiana, Mississippi, Georgia, and Florida. The project included vehicular, rail, and pedestrian bridges and the inspections were required to fulfill NBIS, federal railroad administration, and DoD unified facilities criteria. The bridges ranged from simple inland single spans to 24 span coastal bridges crossing estuaries and navigable channels. The inspections were performed using a custom developed mobile and web-based application developed by Marine Solutions that allows for fast and effective inspections, auto-generated reports, and auto-generated bridge inventory and inspection data.

- NBIS underwater bridge inspection
- Soundings
- NBE and MBE ratings
- Remote locations
- Varied access & diving modes
- Bridge inspections in Louisiana
- Varying bridge types

- All inspections were performed within the required month due.
- All bridge data was entered and finalized prior to the required due date along with accompanying electronic reports.
- Above and below water inspections were performed by a single team in a single mobilization with all the qualifications and equipment required.
- Quality control checks were utilized to efficiently verify field notes prior to data entry and report development.
- Quality control practices were successfully performed to eliminate errors in reporting and expedite government review and acceptance.

**Team Members:** Sean P. Chapman, PE, Brad Syler, PE, SE; John Loftus, PE; Ross Whiting, PE; Austin Barber, PE; Joseph Guthrie, Ian Conrath, Tyler Estes, and Morgan Gebert.



Firm name	Marine Solutions, Inc. of Kentucky	Past Performance Evaluation Discipline(s)*	CE&I/OV
Project name	<b>Francis Scott Key Bridge Collapse Emergency Response</b>	Firm responsibility (prime or sub?)	Prime
Project number	0224038 / 82-21-021	Owner's name	<b>Maryland Transportation Administration</b>
Project location	<b>Baltimore, Maryland</b>	Owner's Project Manager	Tekeste Amare, P.E.
Owner's address, phone, email	300 Authority Drive, Baltimore, MD 21222, 410-537-7889, <a href="mailto:tamarel@mdta.state.md.us">tamarel@mdta.state.md.us</a>		
Services commenced by this firm (mm/yy)	03/24	Total consultant contract cost (\$1,000's)	\$130
Services completed by this firm (mm/yy)	05/24	Cost of consultant services provided by this firm (1,000's)	\$130

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



Marine Solutions has provided inspection and other bridge engineering services to the Maryland Transportation Administration (MDTA) for 20 years through numerous consecutive system wide and on-call contracts. The MDTA maintains and operates the state's toll facilities including turnpikes, tunnels, and bridges, including the seven largest coastal bridges in the state. Four of these bridges are over a mile long. Marine Solutions provides above and below water routine, in-depth, and nonredundant steel tension member inspections, load ratings, surveys, repair designs, and comprehensive bridge program services.

On March 26, 2024, a cargo ship leaving the Port of Baltimore struck the (I-695) Francis Scott Key Bridge causing the collapse of the bridge. Marine Solutions began providing emergency consulting services and prepared field teams for response within hours of the collapse. Personnel, boats, and sonar equipment were mobilized to the site and began providing survey and assessment services immediately upon notice to proceed, less than 24 hours after the collision. The teams included certified personnel in above and below water bridge inspections, surveying, sonar imaging, and construction. Both field and office personnel were positioned to collect and process information as quickly as possible.

- Emergency response
- Post event inspections
- Underwater imaging
- Hydrographic surveys
- Emergency consulting

Marine Solutions provided observations and surveying of the collapsed and un-collapsed sections of the bridge. Using the latest sonar technologies, real-time imaging of the structure was used to report and consult in support of evaluation and emergency actions as the surveys were conducted. Above and below water surveys and assessment reports were then provided. Following immediate surveys of the collapsed bridge spans, Marine Solutions performed underwater inspections of all the substructure units for damage and evaluation of stability.

- Marine Solutions' knowledge of the bridge's fender systems, substructure, and waterway provided the MDTA with immediate answers on the bridge and waterway conditions.
- Access to the most advanced sonar technology provided the MDTA with a clear picture of the underwater conditions.
- Fast response provided answers for decision making when timing was critical.

**Team Members:** Sean P. Chapman, PE; Brad Syler, PE, SE; John Loftus, PE; Ross Whiting, PE; Austin Barber, PE; Joseph Guthrie, Ian Conrath, and Tyler Estes.

Firm name	Marine Solutions, Inc. of Kentucky	Past Performance Evaluation Discipline(s)*	CE&I/OV
Project name	<b>2023 System Wide Underwater Bridge Inspections</b>		Firm responsibility (prime or sub?)
Project number	0123051	Owner's name	<b>Norfolk Southern Corporation</b>
Project location	<b>Louisiana and Various States</b>	Owner's Project Manager	Andrew Riegerix, P.E.
Owner's address, phone, email	1200 Peachtree Street NE, Atlanta, GA 30309, 478-749-6124, <a href="mailto:Andrew.riegerix@nscorp.com">Andrew.riegerix@nscorp.com</a>		
Services commenced by this firm (mm/yy)	04/23	Total consultant contract cost (\$1,000's)	\$213
Services completed by this firm (mm/yy)	12/23	Cost of consultant services provided by this firm (1,000's)	\$213

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



Marine Solutions has been performing bridge inspection and other bridge engineering services for the Norfolk Southern Corporation for more than 15 years though system wide inspection and engineering contracts. Services have included underwater bridge inspections in accordance with federal railroad administration and NBIS requirements, underwater imaging, hydrographic surveying, in-depth investigations, post-event inspections and emergency services, and bridge repair designs. Under these contracts, Marine Solutions has performed underwater inspections in more than 20 U.S. states including Louisiana and the gulf coast region.

- Underwater bridge inspection
- Fender system inspections
- Soundings
- Remote locations
- Varied access & diving modes
- Bridge inspections in Louisiana
- Varying bridge types
- Post event inspections
- In-depth investigations
- Bridge repair designs

This project included the routine underwater inspection of 19 bridges located throughout Louisiana, Alabama, Kentucky, Illinois, and Missouri as well as on-call services at four bridges in North Carolina, Virginia, and Kentucky. The routine inspections required the ability to efficiently access and effectively inspect and assess a wide variety of bridge types and sizes located in varying and often challenging locations. On-call services included investigations, analysis, and repair designs for substructure settlement, buckled pile supports, deterioration of timber piles, damaged pile jackets, and sediment sampling for proposed dredging.

- System wide inspections for a wide variety of bridge types located in varying environments were efficiently performed by a single team equipped with the right access and inspection equipment.
- All bridges were inspected within the month due and reported within federal railroad administration requirements.
- Critical findings were reported while on-site, documented, and follow-up actions were conducted immediately.
- Response was provided for post-event occurrences or apparent damage rapidly.
- In-depth inspections and investigations were provided for apparent damage.
- Cost-effective and practical solutions and repair designs were provided.
- Additional bridge engineering services were provided to support maintenance and repairs.

**Team Members:** Sean P. Chapman, PE, Brad Syler, PE, SE; John Loftus, PE; Ross Whiting, PE; Austin Barber, PE; Joseph Guthrie, Ian Conrath, Tyler Estes, and Morgan Gebert.

Firm name	Volkert, Inc.	Past Performance Evaluation Discipline(s)*	CE&I/OV
Project name	<b>Nationwide Bridge Inspection Services for the Eastern Federal Lands Highway Division of the Federal Highway Administration</b>	Firm responsibility (prime or sub?)	Prime
Project number	n/a	Owner's name	<b>Eastern Federal Lands Highway Division</b>
Project location		Owner's Project Manager	Marcus Miller, PE
Owner's address, phone, email	(703) 404-6252		
Services commenced by this firm (mm/yy)	2005	Total consultant contract cost (\$1,000's)	\$11,300
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)	

Volkert has been selected for four consecutive cycles, beginning in 2005, by the EFLHD to provide NBIS and element level inspections for National Park Service (NPS) structures and other federal agencies. This is an IDIQ contract assigned by individual task orders to identify structural or functional deficiencies and make recommendations and cost estimates for repairs. Currently, Volkert has completed over 950 load ratings for structures in the NPS system. Beginning in 2015 through EFLHD, Volkert conducted fracture critical inspections, underwater inspections, Level 1 scour evaluations, and load rating for structures owned by the United States Forest Service (USFS). Under these contracts, Volkert has performed over 5,000 bridge and tunnel inspections in 45 states and Washington, DC including the entire length of the Blue Ridge Parkway and Natchez Trace Parkway. These inspections have required use of specialized equipment like snoopers, man-lifts, tracked man-lifts, underwater inspections and boats for access and safety. For projects requiring the snoopers or man-lifts, traffic control/management was performed to keep traffic flowing freely during inspections. After the field inspections are completed, Volkert compiles the data, prepares bridge inspection reports with all data related to the inspections, and recommendations of necessary repairs, rehabilitation, or future inspections required, then submits them to the FHWA in the EFLHD's special inspection software format. In addition to structures located in the National Park Service system, Volkert has performed over 840 initial, routine, and underwater bridge inspections, some of which required snoopers and underwater inspections, at various Air Force bases and ranges throughout the nation. Additional services provided under these contracts have included the emergency topside and underwater inspections at several sites in the New York Metropolitan area after Hurricane Sandy. At Statue of Liberty National Monument, Volkert provided in-depth topside and underwater inspections of the two docks, which service Liberty Island. During Hurricane Sandy, the service dock was damaged, while the public dock had damage, but was open to ferry essential personnel to and from the Island. The findings of these inspections were used to develop preliminary repair/construction plans for both docks. In addition to the preliminary plans, Volkert provided detailed construction cost estimates and schedules. Following the work at Liberty Island, Volkert provided a detailed top side and underwater inspection of the Nichols Great Kills Marina in Gateway National Recreation Area. In addition to the structural evaluation of the bulkhead and the remaining piles for the floating docks, Volkert worked with Dolan Research to complete a bathymetric survey of the area and to map submerged debris which included numerous vessels sunk during Hurricane Sandy. Additional in-depth top side and underwater inspections were performed for Canarsie Pier, the Rockaway Point Yacht Club Dock, and Docks #1 and #5 at Jacob Riis Park in Gateway National Recreation Area, the Fire Island Lighthouse Dock at Fire Island National Seashore, and NPS Service Dock #102 at Governors Island National Monument.

**Team Members:** Aaron Immel, Matt Burnett, Paul Swann, Todd Powell

Firm name	Volkert, Inc.	Past Performance Evaluation Discipline(s)*	CE&I/OV
Project name	<b>Underwater Bridge Inspections throughout Tennessee for the Tennessee Department of Transportation</b>		Firm responsibility (prime or sub?) Prime
Project number	n/a	Owner's name	<b>Tennessee Department of Transportation</b>
Project location	Statewide, TN	Owner's Project Manager	Tom Quinn, PE
Owner's address, phone, email	615.741.8400		
Services commenced by this firm (mm/yy)	03/2015	Total consultant contract cost (\$1,000's)	\$451
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)	

As part of Volkert's Bridge Maintenance and Repair On-Call contract with the Tennessee Department of Transportation (TDOT), Volkert has been issued two work orders to provide underwater inspections services for both on- and off-system bridges throughout the state. Under these work orders with subconsultant Collins Engineers, a total of 87 underwater bridge inspections have been performed. Volkert has performed 78 inspections, while Collins has performed 9 which included 2D acoustic imaging. This cycle we will be performing 44 inspections across the state.

Several of the on-system structures included interstate bridges across the Cumberland River in downtown Nashville. These bridges required coordination with the United States Coast Guard and the local law enforcement due to several "sensitive" facilities near the bridges and so that our team did not disrupt maritime traffic along the River.

Each bridge required a site-specific dive plan detailing the elements and logistics of the inspection as well as safety procedures and nearby medical facilities to be submitted and approved prior to commencing underwater inspection operations. Each inspection is led by a professional engineer registered in Tennessee who qualifies as an underwater team leader as prescribed by the National Bridge Inspection Standards (NBIS).

The Level I and II inspections extend from the waterline to the mudline for selected bridge substructures and foundation elements. These bridges are comprised of steel, masonry, concrete, timber abutments, piling, piers, or pier protection systems. For each inspection, the team identifies the location and severity of any underwater deficiencies in those bridges. For concrete and masonry elements, any cracking, scaling, or spalling and any deterioration/corrosion to any exposed steel reinforcement is detailed. Any paint failure, corrosion, section loss, or bending is reported in steel elements. For timber elements, the underwater length of the pile is sounded for decay and any deterioration resulting from fungi, insects, or marine borers is expressed, often with a sketch detailing the good material versus decay/deteriorated material in the cross section of the pile. Masonry elements are inspected to determine the integrity of the mortar joints and any cracking of the stones.

A scour evaluation is also performed at these bridge sites to determine the bridge's susceptibility to scour and erosion. This evaluation notes any site-related issues which includes local scour around piles and/or voids or undermining of the abutments or pier footings. The channel is also inspected to identify any scour patterns along the channel through the bridge and along the channel banks. Channel bed soundings are taken at 10-ft intervals at each end and side of the piers for a distance of 50-ft. If scour countermeasures, such as riprap or gabion baskets, are in place, then the location and average rock size is identified. Finally, any navigational hazards such as debris or faded channel markers are noted. All of this information from the field is used to develop a detailed inspection report. Following Volkert's customized QC/QA process, the reports are signed and submitted.

**Team Members:** Aaron Immel, Todd Powell, Matt Burnett

Firm name	Volkert, Inc.	Past Performance Evaluation Discipline(s)*	CE&I/OV
Project name	France Road Terminal, Berth No. 4 Wharf		Firm responsibility (prime or sub?) Sub
Project number	n/a	Owner's name	Port of New Orleans
Project location	New Orleans, LA	Owner's Project Manager	Ed Scheuermann, PE, Boh Bros.
Owner's address, phone, email	P. O. Drawer 53266, New Orleans, LA 70153, 504-821-0714		
Services commenced by this firm (mm/yy)	02/23	Total consultant contract cost (\$1,000's)	\$78 annually
Services completed by this firm (mm/yy)	02/24	Cost of consultant services provided by this firm (\$1,000's)	

Volkert was sub-consulted by Boh Bros. Construction, LLC to conduct a site assessment that consisted of a visual inspection and a repair type classification of 635 foundation piles located below 725 feet of France Road Terminal, Berth No. 4 Wharf, 19 foundation piles located below the south ramp and 30 piles located below the north ramp. The site assessment also included a visual inspection of the existing Mooring Bits and Fendering system. The visual inspection did not include a dive inspection of the piles below the water line. Volkert was also responsible for design services consisting of the development of construction plans and specifications to facilitate the rehabilitation of the France Road Terminal, Berth No. 4 Wharf structure and two access ramps. This is a yearly project and the owner of the wharf and the Port of New Orleans.

**Team Members:** Jan Evans, Steven Armstrong, Keith Hoogland, Luke Chambless, Paul Swann

## **18. Approach and Methodology:**

The goal behind our approach is simple: *Provide the highest level of expertise to ensure LaDOTD's underwater bridge inspection program is responsive, efficient, and effective and exceeds the FHWA NBIS metrics.*

Marine Solutions has grown over the years to be a nationally recognized leader in underwater bridge inspection services, and we want to be LaDOTD's first choice for these services. We have more ADCI-certified divers, more NBIS-qualified Team Leaders, more professional licensed engineers who are experts in underwater inspections, more diving, surveying, and imaging equipment, and more experience on the water than any other engineering firm in the country. The following is Marine Solutions plan to leverage these qualifications to the benefit of LaDOTD.

### **Prepare**

Once notified of selection, the contract will be established in partnership with the LaDOTD by our Principal-in-Charge, Sean Chapman, PE. Our project manager, John Loftus, PE, will then contact LaDOTD to perform a contract kick-off meeting. The primary goal will be to further understand and affirm LaDOTD's desired outcomes and definition of success. Our key team members, specifically our principal-in-charge, quality manager, project manager, assistant project manager, and team leaders will attend the kick-off meeting.

The key personnel as well as designated inspection teams will also refresh their understanding and knowledge of LaDOTD's bridge inspection procedures and attend or facilitate all required LaDOTD trainings prior to contract execution. All of our onsite inspection team leaders and members will take the LaDOTD's Work Zone Training and will maintain the work zone training by retaking the course every four (4) years. In addition, our principal-in-charge, project manager, and all of our field team leaders will complete the LaDOTD Traffic Control Supervisor Training prior to contract execution.

### **Plan**

*All inspections will be performed in the month due, and all reports will be submitted on or ahead of schedule.* Mr. Loftus will schedule and perform the bridge inspections in the month due and ensure all draft and final report submittal deadlines are met or exceeded. All inspection planning will be performed by Mr. Loftus or an assigned Team Leader under Mr. Loftus' supervision. Mr. Chapman will ensure that all resources are dedicated and available. The Quality Manager, Bradley Syler, PE, SE, will ensure that the correct procedures and equipment are planned for each bridge, the correct data is collected at each bridge, and all submittals are correct.

Prior to performing field assignments, all available existing documents including previous inspection reports, as-built or design plans, hydrographic surveys, structural evaluations, or maintenance reports will be reviewed to understand the structural performance of the bridge and properly prepare for the inspection. Mr. Loftus will prepare or review and submit an inspection plan including the planned approach for each bridge, approvals for any specialized access or procedure such as property access or unmanned aerial vehicles, and schedule for the inspection.

Once the inspection plan and schedule is approved, the Team Leader will coordinate access to the sites and secure necessary permissions, permits, and maintenance of traffic and will notify the USCG of any inspection or survey activities required to be conducted within a navigable waterway.

### **Communicate**

We understand the importance of proactive, frequent, and clear communication not only with the LaDOTD project manager but also with the LaDOTD District Engineers. Mr. Loftus will serve as a single point of communication with the LaDOTD project manager and the District Engineers. Marine

Marine Solutions, Inc. of Kentucky (Marine Solutions)

Solutions will clearly communicate project schedules, schedule changes, notice of inspection completion, critical findings, report schedules, and notice of report submittals. Mr. Loftus will also facilitate progress meetings with LaDOTD at least twice per year to ensure our services are exceeding the performance standards of the contract and explore opportunities for continuous improvement. As the designated principal-in-charge, Mr. Chapman will monitor all project management and communication and will attend all progress meetings.

### **Execute**

***Inspections will be performed in a single mobilization to each bridge and will include above and below water inspection, water level recording, photographs, and soundings.*** The inspection will consist of a Level I inspection (visual/tactile inspection) of 100% of the underwater elements from the mudline to the High Water Mark (HWM), a Level II inspection (detailed inspection) of 10% of the underwater elements, and a Level III inspection (ultrasonic thickness testing) of 5% of any underwater steel elements. Soundings will be taken around the substructure units, along the upstream and downstream bridge fascias, and along lines located 25 ft upstream and downstream of the fascias. Hydrographic surveys and/or underwater acoustic imaging will be used to augment dive inspections on major waterway bridges or to replace dive inspections when conditions are hazardous, and the replacement is authorized by the LaDOTD project manager.

Two primary underwater inspection teams have been assigned to the project to allow for concurrent inspections. An additional two inspection teams as well as surveying and acoustic imaging staff and ample additional resources have also been identified to ensure our team has the capacity to meet any schedule or emergency response that may arise during the contract. Mr. Loftus will serve as the primary inspection team leader and each team will be balanced with a Louisiana Licensed PE Team Leader and inspection diving staff who are trained in underwater inspection, hydrographic surveying, underwater acoustic imaging, and unmanned aerial vehicle (i.e., drone) operation. All proposed team members and supplemental staff are qualified for their respective roles and meet or exceed experience, education, and training levels as specified by the LaDOTD.

All dives will be performed in accordance with OSHA standards. Dive teams will be equipped with vehicles, boats, diving equipment, iPads or computers, digital cameras, underwater cameras, clear-water boxes, channel bottom sounding equipment, steel thickness testing equipment, unmanned aerial vehicles (drones), and all necessary tools of the trade to perform underwater inspections.

Additionally, for each inspection:

- The notetaker will digitally record all findings as related by the diver in real time to ensure efficient and accurate reporting.
- Above water photographs will be taken of all sides of each inspected substructure unit as well as of all deterioration or deficiencies observed during the inspection.
- Underwater photographs of deterioration or deficiencies will be taken regardless of water clarity with underwater digital cameras and a clear water box.
- The underwater inspection will entail Level I, II, and III inspections of the submerged substructure units from the mudline to the High Water Mark (HWM). The Level II and III inspections will focus on underwater elements with suspected deterioration or apparent distress. All observed defects and deficiencies will be accurately measured and fully documented with inspection notes, photographs, and test data.
- Probes into the mudline along the substructure units will be performed to accurately identify the channel bottom type, penetration, and foundation location (if possible).
- LaDOTD will be notified immediately of any critical findings.

***Safety is an integral part of our culture.*** As key parts of our safety program, an activity hazards analysis will be included in the planning for each bridge inspection and at the beginning of every day, a safety meeting will be conducted with the on-site crew to ensure everyone understands the work environment for the day. Most importantly, we will utilize our local knowledge and nationally recognized expertise to provide a new level of effective and efficient safety assurance for underwater inspections in the State of Louisiana.

- Marine Solutions is an ADCI member company and our Senior Vice President, Donald Wilkins, is the current ADCI President.
- Marine Solutions has worked for years in and around Louisiana's lakes and rivers, acquiring extensive knowledge of diving conditions and potential hazards.
- Our safety standards for commercial diving have been commended by numerous state DOTs and the U.S. Navy, U.S. Army Corps of Engineers, and U.S. Coast Guard.

***All reports will be submitted correctly the first time, on or ahead of schedule.*** The team leader or team member who conducted the inspection will prepare the underwater bridge inspection report and enter the NBIS/SNBI underwater bridge inspection information into the LaDOTD InspectX Database. The same person who writes the report will also prepare the accompanying channel sounding plans and cross sections, underwater acoustic images, and/or hydrographic surveys. The draft inspection report will be reviewed and approved by our project manager, Mr. Loftus, prior to submittal to the LaDOTD. After review and approval by the LaDOTD Project Manager or District Bridge Engineer, the final report will be prepared and sealed by our project manager, Mr. Loftus, who is a Louisiana Licensed PE.

We understand the importance of not copying and pasting incorrect information and making sure water level references are taken and reported correctly so the sounding and/or hydrographic survey data is accurate and usable. With ample underwater bridge inspection staff capacity, reports are never rushed at Marine Solutions. All reports, database entries, and products are reviewed in accordance with our internal Quality Program prior to submittal under the direction of our Quality Manager, Mr. Bradley Syler, PE, SE. Mr. Syler will also work with Mr. Loftus to establish an effective and efficient quality review process tailored specifically to this contract and to LaDOTD's requirements.

Marine Solutions quality process is proven and carries the reputation of consistent outstanding performance to local, state, and federal governmental entities. As examples, Marine Solutions has been repeatedly selected for bridge inspection services by the Kentucky DOT, Tennessee DOT, Virginia DOT, Maryland State Highway Administration, Maryland Transportation Authority, Delaware DOT, U.S. Navy, CSXT Railroad, and Norfolk Southern Railroad.

***Marine Solutions will offer a fresh set of eyes on LaDOTD's bridges as well as new ideas and technologies that will greatly benefit LaDOTD's underwater bridge inspection program.*** Underwater inspections are what we do. Therefore, Marine Solutions is on the forefront of innovative technology to improve the accuracy, effectiveness, and efficiency of underwater inspections. We have extensive experience offering and exploring new avenues for our clients, such as working with the FHWA to use alternative methods for inspections. A few examples are:

- ***Mobile Inspection™ App.*** Working with the U.S. Navy, Marine Solutions developed a Mobile Inspection app for bridge inspections to increase efficiency and quality while seamlessly supporting their bridge management program data requirements. Using iPads, protected by floating waterproof cases, this custom data entry tool allows for previous report data to be viewed and modified on-site, and for real-time collection of data and photos to be immediately uploaded to an asset management database. Intelligence is built into the app so that all critical pieces of inspection information must be entered. Reports and products are exported and automatically generated from the application. The software has led to significant reductions in on-site time required, ease of accessing structure information, and time to develop and deliver inspection reports.



- ***Underwater Imaging and Surveying.*** Marine Solutions pioneered the use of imaging and multibeam sonar using 2D and 3D underwater imaging as well as efficient channel bottom surveying. With designated survey vessels and equipment, we are proud to bring the most advanced technology for underwater visualization to LaDOTD’s doorstep.
- ***Remotely Operated Vehicles (ROVs) and Unmanned Aerial Vehicles (UAVs).*** Marine Solutions is also at the forefront of using ROVs and UAVs (drones) to supplement inspections. The capabilities of the ROVs and UAVs will be offered and utilized to improve the quality, safety, and efficiency of our inspections.

### **Subconsultant**

Marine Solutions added Volkert to the team to strengthen the team’s capacity, capability, and emergency response time by adding an additional two underwater inspection teams, a Louisiana Licensed Land Surveyor, and six local offices in Baton Rouge, New Orleans, Shreveport, Mandeville, Monroe, and Ruston, Louisiana. Volkert’s local offices and resources ensure our team has the capacity to meet any schedule or emergency response that may arise during the contract.

### **Schedule**

Attached below please find the anticipated schedule for contract year one to demonstrate sufficient understanding of a typical task order. Bridge inspections will be organized to be performed in the month due and grouped for travel efficiency and for the most efficient use of diving/inspection personnel and equipment.

<b>Task / Month</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
Planning & Communication	X			X			X			X		
Trip #1 – Insp & Reporting		X	X									
Trip #2 – Insp & Reporting					X	X						
Trip #3 – Insp & Reporting								X	X			
Trip #4 – Insp & Reporting											X	X
Progress Meeting						X						X

### **Closing**

Marine Solutions is the most qualified firm providing underwater bridge inspection services in the United States. We have the people, we have the equipment, we have the experience, and we have the expertise. Further, we are an energetic, growing company with the capability, the desire, and the right team to provide LaDOTD with a fresh set of eyes on its critical infrastructure. Marine Solutions greatly appreciates this opportunity, and we look forward to working with LaDOTD on this project.

**19. Workload:**

For all contracts where a firm on the team is a prime consultant or sub-consultant and where **a)** the consultant selection was made by DOTD, and **b)** a contract was executed by the consultant and the contracting entity by the date the advertisement for this proposal was posted, list all work meeting the following criteria:

- 1) one of the team's firms is responsible for the performance of the work;
- 2) authorization to perform the work has been provided, as provided in the contract between the consultant and the contracting entity;
- 3) the work has not yet been performed and invoiced; and
- 4) the work is not currently suspended for an indefinite period of time.

For indefinite delivery/indefinite quantity (IDIQ) contracts, list open Task Orders individually.

List only the portion of the fees attributable to firms on the team.

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Marine Solutions, Inc. of Kentucky	N/A	N/A	N/A	N/A
Volkert, Inc.	Road	Contract No.44-5267 S.P. No. H.003074 & H.009087	Route I-10: Williams Blvd. to Veterans Blvd. & Loyola Drive to Williams Blvd. – Sub-consultant, Jefferson	\$1,736
Volkert, Inc.	Road	Contract No. 44-5142 S.P. No. H.001309.5	MacArthur Blvd. Phase II Final Plans – Sub-Consultant, Jefferson Parish, LA	\$77,678
Volkert, Inc.	Bridge	Contract No. 44-25024 S. P. No. H.01551.8	Ridge Road Over Castor Creek, Bienville Parish, LA	\$123,775
Volkert, Inc.	Bridge	Contract No. 44-25024 S. P. No. H.015520	Collinsburg Creek over Collinsburg Creek, Bossier Parish, LA	\$123,660
Volkert, Inc.	Bridge	Contract No. 44-25024 S. P. No. H. 015522	Barnette Road over Trib to Walnut Bayou, Caddo Parish, LA	\$108,500
Volkert, Inc.	Bridge	Contract No. 44-25024 S. P. No. H.015524	Self Road Over Dooley Canal, Caddo Parish, LA	\$110,975
Volkert, Inc.	Bridge	Contract No. 44-25024 S. P. No. H.015525	Bailey Town Rd Over Little Corney Bayou, Claiborne Parish, LA	\$148,525
Volkert, Inc.	Bridge	Contract No. 44-25024 S. P. No. H.015527	Hinds Road Over Wallace Bayou, DeSoto Paish, LA	\$126,375
Volkert, Inc.	Bridge	Contract No. 44-25024 S. P. No. H.015528	Courtney Road Over Dry Creek, Red River Parish, LA	\$112,825
Volkert, Inc.	Bridge	Contract No. 44-25024 S. P. No. H.015529	Dorcheat Road Over Cow Branch, Webster Parish, LA	\$137,400
Volkert, Inc.	Bridge	Contract No. 44-25024 S. P. No. H.015336	Marathon Road over Gray Creek, Webster Parish, LA	\$137,050
Volkert, Inc.	Traffic	Contract No. 44-4787 S.P. No. H.009250	IMR I-10 Highland Road to LA 73, East Baton Rouge and Ascension Parishes, LA	\$1,161,738

Volkert, Inc.	Survey	Contract No. 44-17068	Louisiana Watershed Initiative (LWI) Modeling Contract Region 3, Sub Consultant -Work completed	\$215,444
Volkert, Inc.	Survey	Contract No. 44-17068	IDIQ Contract for Louisiana Watershed Initiative (LWI) Modeling Contract Region 2, Sub Consultant, Task Order 1, 2 and 3	\$211,808
Volkert, Inc.	Survey	Contract No. 44-17764 S.P. No. H.013284	IDIQ Contract for Engineering and Inspection Services of State Regulated Dams with Majority of Work in Districts 04,05.08 and 58, Statewide, Tasks Order 4 & 7	\$70,028
Volkert, Inc.	Other - Procurement Services	Contract No. 44-17328 S.P. No.H.015372	IDIQ Contract for Innovative Procurement Support Services, Statewide - No open task orders	N/A
Volkert, Inc.	CE&I/OV	Contract No. 44-16173 S.P. No. H.003370	I-220/I-20 Interchange Improvements & Barksdale AFB Access, Bossier Parish, LA	\$385,394
Volkert, Inc.	CE&I/OV	H.004791	LA 23 : Belle Chasse Bridge and Tunnel Replacement (HBI) Plaquemines Parish, LA	\$4,651,303
Volkert, Inc.	CE&I/OV	Contract No. 44-16980 H.013897	College Drive Flyover Ramp. I-10/I-12 West East Baton Rouge Parish, LA	\$530,346
Volkert, Inc.	CE&I/OV	Contract No. 44-21740 H.004100.6	Phase I W. of Washington Street to Essen Lane (CE&I) Phase I Segment 01. W. of Washington Street to Acadian Thruway, Route I-18. East & West Baton Rouge Parishes, LA	\$7,099,192
Volkert, Inc.	CE&I/OV	Contract No. 4400026587 S.P. No. H.001779.6	Jimmie Davis Bridge (LA 511) (HBI) (Owner Verification Services) Route LA 511, Caddo and Bossier Parishes	\$8,400,596
Volkert, Inc.	CE&I/OV	H.001234.6	LA 1 Port Allen Canal Bridge Replacement (Phase 1) (HBI) (CE&I), West Baton Rouge Parish, LA – Subconsultant	\$313,353
Volkert, Inc.	CE&I/OV	H.007811.6, H.000710.6, H.002273.6, and H.001352.6	Comite Diversion Canal CE&I and Utility Relocation, East Baton Rouge Parish, LA – Subconsultant	\$248,349
Volkert, Inc.	CE&I/OV	Contract No. 44-19950, H.002868.6	Retainer Contract 44-19950 IDIQ Contract for Construction Engineering and Inspection Services (CE&I) Statewide with Majority in District 03 Acadia, Lafayette, Evangeline, Iberia, St. Landry, St. Mart, St. Mary, and Vermilion Parishes – Task Order 4 – I-49 S Ambassador Caffery/US 90 Interchange, St. Martin & Lafayette Parishes– Sub- consultant	\$336,820
Volkert, Inc.	CE&I/OV	Contract No. 44-19950, H.013265.6	Retainer Contract 44-19950 IDIQ Contract for Construction Engineering and Inspection Services (CE&I) Statewide with Majority in District 03 Acadia, Lafayette, Evangeline, Iberia, St. Landry, St. Mart, St. Mary, and Vermilion Parishes – Task Order 5 – US 90 LA 14 - LA 83, Iberia Parish – Sub- consultant	\$61,027

Volkert, Inc.	CE&I/OV	H.008145.6	LA 1: Leeville to Golden Meadow Phase 2 (CE&I) & SA 1 Fabrication Lafourche Parish (Subconsultant to ECM)	\$6,277,077
Volkert, Inc.	CE&I/OV	H.011965.6	LA 47: IWGO Bridge Replacement (HBI) (CE&I), Orleans Parish -Subconsultant	\$339,625
Volkert, Inc.	CE&I/OV	H.009498.6	Retainer Contract 44-26334 IDIQ Contract for Precast Prestress Concrete Fabrication Inspection, Task Order 1 LA 121 Calcasieu River Bridge Fabrication, Rapides Parish	\$51,294
Volkert, Inc.	CE&I/OV	H.002868.6	Retainer Contract 44-26334 IDIQ Contract for Precast Prestress Concrete Fabrication Inspection, Task Order 3 Fabrication, I-49 S Ambassador Caffery US 90 Interchange, Lafayette Parish	\$162,194
Volkert, Inc.	<b>CE&amp;I/OV</b>	H.011808.6	Retainer Contract 44-26334 IDIQ Contract for Precast Prestress Concrete Fabrication Inspection, Task Order 4 Fabrication, LA 10: Palmetto Company Canal Bridge	\$110,888

(Add rows as needed)

DO NOT SUM

\* The **only** 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 (please specify). If a firm has more than one past performance evaluation discipline for any single project, the firm can use multiple rows to express the remaining unpaid balance per evaluation discipline.

\*\* Round to the nearest dollar. **Do not** round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. NOTE: ALL FIRMS MUST BE REPRESENTED IN THIS TABLE. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.

**20. Certifications/Licenses:**

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

**21. QA/QC Plan:**

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

**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.

<b>Firm Name</b>	<b>Address</b>	<b>Point of Contact and email address</b>	<b>Phone Number</b>
Volkert, Inc.	9448 Brookline Avenue Baton Rouge, LA 70809	Janet L. Evans, P.E. <a href="mailto:Jan.evans@volkert.com">Jan.evans@volkert.com</a>	225-218-9440

(Add rows as needed)

**23. Location:**

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



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